

**APPENDIX D**

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**AIR POLLUTANT  
EMISSIONS ASSESSMENT**



ENVIRONMENTAL MANAGEMENT ASSOCIATES

September 18, 2017

Mr. Ramon Gonzales  
Project & Business Development Coordinator  
Z Global Inc.  
750 West Main Street  
El Centro, CA 92243

Re: Air Pollutant Emission Assessment, Seville 4 Solar Project Construction and Operations,  
Imperial County, California

Dear Mr. Gonzales:

Environmental Management Associates, Inc. (EMA) has prepared this assessment of the emissions of the following seven air pollutants from the construction and operation of the Seville 4 Solar Project (Project), Imperial County, California: criteria air pollutants particulate matter smaller than 10 microns in aerodynamic diameter (PM<sub>10</sub>), particulate matter smaller than 2.5 microns in aerodynamic diameter (PM<sub>2.5</sub>), carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>); and criteria air pollutant precursor reactive organic gases (ROGs); as well as greenhouse gases (GHG), such as carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>).

The Imperial County Air Pollution Control District “CEQA Air Quality Handbook” (November 2007) provides guidance to assist Imperial County CEQA Lead Agencies in making a determination on the type of environmental document to prepare.

The Handbook (page 8) states that “Table 1 (of the Handbook) provides general guidelines for determining the significance of impacts and the recommended type of environmental analysis required based on the total emissions that are expected from the operations phase of a project.” Table 1 presents these “Thresholds of Significance for Project Operations” from Table 1 of the ICAPCD CEQA Handbook.

**Table 1: ICAPCD “Thresholds of Significance for Project Operations”**

Air Pollutant	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>
Threshold (<lbs/day)	55.00	55.00	550.00	150.00	150.00

The ICAPCD operations activities table does not present “significance thresholds” for PM<sub>2.5</sub> or GHG.



Table 4 of the Handbook (“Thresholds of Significance for Construction Activities”) “is intended to serve as a guide for project developers and interested parties in determining the recommended type of mitigation measures.” (page 19). Table 2 provides the “Thresholds of Significance for Construction Activities” listed in Table 4 of the Handbook.

**Table 2: ICAPCD “Thresholds of Significance for Construction Activities”**

<b>Air Pollutant</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM<sub>10</sub></b>
<b>Threshold (&lt;lbs/day)</b>	75.00	100.00	550.00	150.00

The ICAPCD construction activities table does not present “significance thresholds” for PM<sub>2.5</sub>, SO<sub>2</sub> or GHG.

To conduct this analysis, EMA utilized information from the Seville 4 CalEEMod Supplemental Project Description prepared by EMA with information provided by Titan Solar II LLC (Titan) (provided as Attachment A to this letter report).

Air pollutant emissions for the Project operations and construction activities were estimated using the California Emission Estimator Model (CalEEMod) (version 2016.3.1). CalEEMod is a computer program developed by ENVIRON International Corporation in collaboration with the South Coast Air Quality Management District (SCAQMD) and other California Air Districts that can be used to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operations (including vehicle use and travel), as well as indirect emissions, such as GHG emissions from energy use. Mitigation measures can also be specified and their emission reductions calculated.

Unpaved private industrial road fugitive dust air pollutant emissions were calculated using the U.S. Environmental Protection Agency’s (USEPA’s) “AP-42, Compilation of Air Pollutant Emission Factors.” AP-42 has been published since 1972 as the primary compilation of EPA’s air pollutant emission factor information. It contains emission factors and process information for more than 200 air pollution source categories. The emission factors have been developed and compiled from source test data, material balance studies, and engineering estimates. The latest emissions factors are available from the USEPA’s website.

The Project would consist of the construction, operation and reclamation of a nominal 20-megawatt alternating current (MW<sub>AC</sub>) solar photovoltaic (PV) energy generation facility. The Project would be built on either 146 acres (fixed-frame array) or 174 acres (horizontal single axis tracker [“HSAT”] array) of land in west-central Imperial County, California.

Project construction would consist of different activities which would be undertaken in phases, through to the operation of the Project. Construction of the project is expected to consist of the following eight activities (CalEEMod “phases”): access road (all-weather) construction; grading/fencing (including retention basin grading); racking installation; solar panel installation; system wiring and trenching; inverter installation; gentle power line construction; and substation and switch station construction. Some of the eight activities are expected to overlap another construction activity. Construction of the Project is estimated to take approximately 6 months.

The schedule presented in Table 3 includes the likely phasing of the various construction activities, whether fixed-frame or HSAT array. As shown in Table 3, operations would commence once construction is complete.

**Table 3: Anticipated Construction and Operation Schedule**

	Month 1			Month 2				Month 3					Month 4				Month 5				Month 6			
	Week #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Access Road Construc.	X	X																						
Grading/Fencing			X	X	X																			
Racking Install.						X	X	X	X	X	X	X	X	X										
GenTie Power Line Construc.										X	X	X	X											
Substation Construc.										X	X	X	X	X	X	X	X							
Solar Panel Install.										X	X	X	X	X	X	X	X	X	X					
System Wiring & Trenching															X	X	X	X	X	X	X			
Inverter Install.																		X	X	X	X	X		
Operation																								X

Each construction and operation activity has the potential to produce air pollutant emissions which vary in both the specific type and quantity emitted. EMA has calculated the daily air pollutant emissions from the Project’s eight construction phases and Project’s operations in one CalEEMod model and twelve unpaved (private) industrial road calculations using AP-42 emission factors.

Table 4, Table 5, Table 6 and Table 7 outline the eight phases the CalEEMod model and twelve AP-42 emission factors used to calculate the daily air pollutant emissions from the Project’s eight construction activities. Table 8 outlines the single phase the CalEEMod model used to calculate the daily air pollutant emissions from the Project operations. Table 9 outlines the single phase the CalEEMod model, and the one AP-42 emission factor, used to calculate the daily air pollutant emissions from the Project’s fixed frame construction activities that differ from the HSAT array. Table 9 also outlines the single phase the CalEEMod model used to calculate the daily air pollutant emissions from the operation of the fixed-frame array option. These six tables also identify the Project construction and operation activities’ air pollutant sources, the type of air pollutant emitted from each source, type of model used to calculate emissions, and the Attachment to this letter report in which the input and output files for each specific model are located. The CalEEMod input and output files for each of the eight HSAT array construction phases (and the fixed-frame grading option) are presented in Attachment B. The CalEEMod input and output files for the HSAT array operation phase (and the fixed-frame operation option) are also presented in Attachment B. The AP-42 calculations are presented in Attachment C

**Table 4: CalEEMod Air Pollutant Emissions Calculation Models – Construction Activities**

Project Phase(s)	Access Road Construction (All-Weather)					Grading/Fencing				
<b>Air Pollutant Source</b>	Onsite Traffic	Grading	On-Site Equip.	Off-Site Traffic		Onsite Traffic	Grading	On-Site Equip.	Off-Site Traffic	
<b>Air Pollutant Emissions</b>	Fugitive Dust	Fugitive Dust	Combust. Emissions	Fugitive Dust	Combust. Emissions	Fugitive Dust	Fugitive Dust	Combust. Emissions	Fugitive Dust	Combust. Emissions
<b>Model Using</b>	AP-42	CalEEMod (V04)				AP-42	CalEEMod (V04)			
<b>Attach.</b>	Attach. C	Attachment B				Attach. C	Attachment B			

**Table 5: CalEEMod Air Pollutant Emissions Calculation Models – Construction Activities (continued)**

Project Phase(s)	Racking Installation				Solar Panel Installation			
<b>Air Pollutant Source</b>	Onsite Traffic	On-Site Equipment	Off-Site Traffic		Onsite Traffic	On-Site Equipment	Off-Site Traffic	
<b>Air Pollutant Emissions</b>	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions
<b>Model Using</b>	AP-42	CalEEMod (V04)			AP-42	CalEEMod (V04)		
<b>Attachment</b>	Attach. C	Attachment B			Attach. C	Attachment B		

**Table 6: CalEEMod Air Pollutant Emissions Calculation Models – Construction Activities (continued)**

Project Phase(s)	System Wiring & Trenching				Inverter Installation			
<b>Air Pollutant Source</b>	Onsite Traffic	On-Site Equipment	Off-Site Traffic		Onsite Traffic	On-Site Equipment	Off-Site Traffic	
<b>Air Pollutant Emissions</b>	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions
<b>Model Using</b>	AP-42	CalEEMod (V04)			AP-42	CalEEMod (V04)		
<b>Attachment</b>	Attach. C	Attachment B			Attach. C	Attachment B		

**Table 7: CalEEMod Air Pollutant Emissions Calculation Models – Construction Activities (continued)**

Project Phase(s)	GenTie Power Line Construction				Substation & Switch Station Construction			
<b>Air Pollutant Source</b>	Onsite Traffic	On-Site Equipment	Off-Site Traffic		Onsite Traffic	On-Site Equipment	Off-Site Traffic	
<b>Air Pollutant Emissions</b>	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions	Fugitive Dust	Combustion Emissions
<b>Model Using</b>	AP-42	CalEEMod (V04)			AP-42	CalEEMod (V04)		
<b>Attachment</b>	Attach. C	Attachment B			Attach. C	Attachment B		

**Table 8: CalEEMod Air Pollutant Emissions Calculation Models – Operation Activities**

Project Phase(s)	Operations			
Air Pollutant Source	Off-Site Traffic		Electrical	Water Use
Air Pollutant Emissions	Fugitive Dust	Combustion Emissions	GHG Emissions	GHG Emissions
Model Using	CalEEMod			
Attachment	Attachment B			

**Table 9: CalEEMod Air Pollutant Emissions Calculation Models – Fixed Frame Activities**

Project Phase(s)	Grading/Fencing					Operations			
Air Pollutant Source	Onsite Traffic	Grading	On-Site Equip.	Off-Site Traffic		Off-Site Traffic		Electrical	Water Use
Air Pollutant Emissions	Fugitive Dust	Fugitive Dust	Combust. Emissions	Fugitive Dust	Combust. Emissions	Combust. Emissions	GHG Emissions	Fugitive Dust	GHG Emissions
Model Using	AP-42	CalEEMod (V04 FF)				CalEEMod (V04 FF)			
Attach.	Attach. C	Attachment B				Attachment B			

In addition to the CalEEMod calculations and results, Attachments B also contains a “User Entered Comments and Non-Default Data” section which both identifies non-default inputs and explains how CalEEMod is used to calculate emissions for the current project. When CalEEMod model defaults were retained and no further explanation was necessary, no “comments” were recorded.

Although the CalEEMod model is capable of calculating air pollutant emissions across many of these construction activities for a number of different projects, its default project types do not include a “solar photovoltaic farm” project. Therefore, the “user defined industrial” land use category was selected as a surrogate. Where applicable, CalEEMod defaults were retained as the model inputs. However, CalEEMod defaults were replaced with project-specific information where available (such as the number of worker-commute and truck traffic, and the percentage of off-site roads to be traveled by off-site traffic which would be paved and unpaved). Defaults were also replaced if applicable project information was available in the CalEEMod Supplemental Project Description using information provided by Titan. Examples of this latter information include the mix of construction equipment expected to be used.

To reduce fugitive dust Seville 4 would water the all-weather private road at least three times per day and limit speed on the all-weather private road to 25 mph. Further, actively disturbed areas on the Project site would also be watered at least three times a day as necessary to reduce fugitive dust emissions. The CalEEMod models with grading assumed on-site watering three times daily during the grading activities.

Attachment B contains the CalEEMod-generated reports of the model outputs for each activity. All of the output reports contain calculated air pollution emissions for both “unmitigated” and “mitigated” activities. “Unmitigated” emissions are those calculated by CalEEMod when none of the air pollutant mitigation measures contained within the CalEEMod program are selected. “Mitigated” emissions are those calculated by CalEEMod after the application of the air

pollutant mitigation measures described above which are contained within, and can be calculated by, CalEEMod.

Attachment B also contains the CalEEMod-generated report of the model outputs for both the HSAT and fixed-frame array operations – one for each array option for the summer months (Attachment B-1 and Attachment B-2), for the winter months (Attachment B-3 and Attachment B-4), and for the annual (or phase) time period (Attachments B-5 and Attachment B-6). The CalEEMod “mitigation report” is provided as Attachment B-7 and Attachment B-8.

The traffic driving to the Project site will travel on paved public roads and a short distance of unpaved private road. Due to the simplicity of the CalEEMod model, the emissions from the paved public roads were calculated using CalEEMod, but emissions from the unpaved private road were calculated outside of CalEEMod using AP-42. These calculations are provided in Attachment C.

Attachment D contains tables summarizing the specific daily (and annual for GHG) air pollutant emissions calculated for each construction phase and the operation phase of the HSAT and fixed-frame arrays, providing the winter and summer unmitigated and mitigated daily air pollution emissions. In addition, the unpaved private road emissions calculated in Attachment C have been added.

In order to determine the daily project-wide construction air pollutant emissions, the daily air pollutant emissions presented in Attachment D must be summed across each construction activity which would be occurring at the same time. Table 3 identifies the Project construction activities and how they are expected to overlap in time, based on the information presented in the Supplemental Project Description. Attachment E presents tables providing the winter and summer unmitigated and mitigated daily air pollution emissions (from Attachment D) summed by applicable construction activities across the eight time periods outlined in Table 3 for the HSAT and fixed-frame array options.

Attachment E compares, for both the HSAT and fixed-frame array options, the daily construction activities air pollution emissions summed by activities across all applicable time periods against the daily construction activities emission thresholds listed in Table 2. Attachment E also compares, for both the HSAT and fixed-frame array options, the daily operations air pollution emissions against the daily operations emission thresholds listed in Table 1. Attachment E shows that the mitigated daily emissions (both winter and summer) of NO<sub>x</sub>, SO<sub>2</sub>, CO and ROG during construction, and operation, of either the HSAT and fixed-frame array options of the Seville 4 Solar Project were below the respective construction and operation thresholds for the air pollutants. Attachment E also shows that the mitigated daily emissions (both winter and summer) of PM<sub>10</sub> during construction, weeks 1-2 and 21-23, and operation, of either the HSAT or the fixed-frame array options of the Seville 4 Solar Project were below the respective construction and operation thresholds for PM<sub>10</sub>. Finally, Attachment E shows that the mitigated daily emissions (both winter and summer) of PM<sub>10</sub> during construction weeks 3-20 of either the HSAT or the fixed-frame array options of the Seville 4 Solar Project were above the respective construction thresholds for PM<sub>10</sub>, reflecting the greater level of traffic on the private, all-weather road.

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Please do not hesitate to contact us if you have any questions or require any additional information. EMA appreciates this opportunity to be of service to Titan.

Sincerely:

ENVIRONMENTAL MANAGEMENT ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Dwight L. Carey". The signature is fluid and cursive, with a large initial "D" and a long, sweeping underline.

Dwight L. Carey, D.Env.  
Principal

Attachments:



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ATTACHMENT A

SEVILLE 4 SOLAR PROJECT  
CALEEMOD SUPPLEMENTAL PROJECT DESCRIPTION

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SEVILLE 4 SOLAR PROJECT  
SUPPLEMENTAL PROJECT DESCRIPTION FOR CALEEMOD ASSESSMENT

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Titan Solar II LLC (Titan) is proposing to develop the Seville 4 Solar Project (Project), a nominal 20-megawatt alternating current ( $MW_{AC}$ ) solar photovoltaic (PV) energy generation facility located on up to approximately 174 acres of land in west-central Imperial County, California. The Project would consist of the construction, operation and reclamation of a solar energy project on portions of the Solana Energy Farms I, LLC property over which Titan Solar II, LLC has acquired an option to purchase. The Project consists of the solar generation facility and associated 34.5-kilovolt (kV) transmission line (gen-tie), Project substation and access road, all on private land. The proposed Project substation would increase the voltage to 92 kV, then deliver the generated power to the existing Imperial Irrigation District (IID) switch yard and connected 92 kV transmission line. This Project Description has been prepared for use in estimating the air pollutant emissions during construction and operation.

The Project would be built on a portion of Lot 8 of Tract Map No. 00988. Two options are being considered for development. The fixed-frame PV array option would disturb approximately 146 acres of land, while the horizontal single-axis tracking (HSAT) PV array option would disturb approximately 174 acres of land. The associated gen-tie line, Project substation and access road would disturb approximately an additional seven acres, regardless of the option selected. Approximately 60 acres of the lands to be disturbed by the PV construction for either option have historically been farmed, although this agricultural use appears to be no more recent than 2008.

Access to the Project site would be via State Highway 78 (a paved state highway). Approximately 3,000 feet of new, private, all-weather access road would be constructed to extend by 0.6 miles the 2.1 miles of private, all-weather road from State Highway 78 to the Project. No unpaved public roads would be traveled by traffic accessing the Project site.

Construction of either the fixed-frame PV array or the HSAT PV array is estimated to take approximately 6 months. The schedule presented in Table 1 includes the likely phasing of the various construction activities for either project. Construction is expected to commence on April 1, 2018, or when all required permits are acquired.

Table 1 – Anticipated Construction Schedule

	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6			
	Week #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Access Road Construct.	X	X																						
Grading/Fencing			X	X	X																			
Racking Installation						X	X	X	X	X	X	X	X	X										
GenTie Power Line Construc.											X	X	X	X										
Substation Construc.											X	X	X	X	X	X	X	X						
Solar Panel Installation											X	X	X	X	X	X	X	X	X					
System Wiring & Trenching															X	X	X	X	X	X				
Inverter Install.																			X	X	X	X	X	
Operation																							X	

Construction of the Project would commence with building of the approximately 3,000 feet of private, all-weather access road, which would be constructed to extend 2.1 miles of private, all-weather road from State Highway 78 to the Project site (see Table 2). This new, 24-foot wide access road is expected to require light site preparation, grading, and compacting. These access road construction activities are expected to require two weeks to complete. These grading activities are expected to occur over approximately 1.65 acres; the total cumulative acreage disturbed from grading is approximately ten acres (approximately six passes over the 1.65 acre area). An estimated 12 worker trips and 12 haul truck trips per day traveling an average of approximately 2.4 miles (2.1 miles plus one-half of 0.6 miles) of all-weather private road are expected daily traveling to the work site. The equipment expected to be used during the construction of the new segment of access road is provided in Table 2.

Table 2– Anticipated Access Road Construction Equipment

Equipment Type	Amount	Daily Usage (Hours)	Horsepower
Graders	1	8	187
Water Trucks (Off-Highway Trucks)	1	8	402
Rollers	1	6	80

All traffic to the Project site during each additional construction phase will travel the approximately 2.7 miles of all-weather private road. To reduce fugitive dust Seville 4 would water the all-weather private road at least three times per day and limit speed on the all-weather private road to 25 mph. Further, actively disturbed areas on the Project site would be watered at least three times a day as necessary to reduce fugitive dust emissions.

Grading activities (including retention basin grading) for the HSAT array area are expected to total approximately three passes over the 174-acre Project site, or a total of approximately 522 acres of grading. Grading activities for the fixed frame array area are expected to total approximately three passes over the 146-acre Project site, or a total of approximately 438 acres of grading. Fence installation is also anticipated to occur during this phase. The grading phase with fence installation is expected to require approximately three weeks. An estimated 104 worker trips, six vendor trips and four delivery truck trips per day would be traveling to the Project site. On-site parking would be provided for all construction workers. During grading, the Project site would be watering actively disturbed on-site areas at least three

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times a day as necessary to reduce fugitive dust emissions. The equipment expected to be used during the grading phase is provided in Table 3.

Table 3– Anticipated Grading and Fencing Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Graders	2	6	187
Water Trucks (Off-Highway Trucks)	2	7	402
Rubber Tired Dozers	2	6	247
Scrapers	3	6	367
Tractors/Loaders/Backhoes	2	6	97
Excavators	2	6	158
Skid Steer Loaders	2	6	65

Racking installation (installation of the supports for the PV arrays) would commence once grading and fencing is complete. Approximately ten haul truck trips per day would deliver equipment and supplies to the Project site laydown area or directly to the active work area. Racking installation is expected to take about 10 weeks. Racking installation is expected to generate 112 worker trips per day traveling to the Project site. On-site parking would be provided for all construction workers. During this construction period, crews of laborers would commence their work at a point on the perimeter or from another point within the site, and continue their work until their assigned area is complete.

During racking installation each on-road delivery truck may be driving an estimated one mile on on-site unpaved roads to deliver construction materials directly to the active work locations.

The equipment anticipated to be used during racking installation for the Project is provided in Table 4. During racking installation, the Project would be watering actively disturbed on-site areas at least three times a day.

Table 4– Racking Installation Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Generator Sets	1	8	84
Water Trucks (Off-Highway Trucks)	1	6	402
Other General Industrial Equipment	6	6	88
Skid Steer Loaders	2	7	78

Solar panel installation would commence once sufficient racking is installed. Approximately ten haul truck trips per day (typical eighteen wheelers and similar sized trucks) would deliver solar panels and other equipment and supplies to the Project site laydown area or directly to the active work area. Solar panel installation is expected to also take about 10 weeks. Solar panel installation is expected to generate 112 worker trips per day traveling to and from the Project site. On-site parking would be provided for all construction workers. During this construction period, crews of laborers would commence their work at a point on the perimeter or from another point within the site, and continue their work until their assigned area is complete. Work crews would carry out the task of mounting the panels on the support frames. During solar panel installation each on-road delivery truck may be driving an estimated one mile on on-site unpaved roads to deliver construction materials directly to the active work locations.

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The equipment anticipated to be used during solar panel installation is provided in Table 5. During panel installation, the Project would be watering actively disturbed on-site areas at least three times a day.

Table 5– Solar Panel Installation Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Generator Sets	1	8	84
Water Trucks (Off-Highway Trucks)	1	6	402
Other General Industrial Equipment	1	8	88
Trenchers	2	6	65
Skid Steer Loaders	2	7	78

The System Wiring and Trenching phase would commence once sufficient solar panels have been installed. Approximately 10 haul truck trips per day would deliver equipment and supplies to the Project site laydown area or directly to the active work area. System wiring and trenching is expected to take about 7 weeks. System wiring and trenching is expected to also generate 32 worker trips per day traveling to the Project site. On-site parking would be provided for all construction workers. During this construction period, crews of laborers would commence their work at a point on the perimeter or from another point within the site, and continue their work until their assigned area is complete. During system wiring and trenching each on-road delivery truck may be driving an estimated one mile on on-site unpaved roads to deliver system wiring construction materials directly to the active work locations.

The equipment anticipated to be used during system wiring and trenching for the Project is provided in Table 6. During system wiring and trenching, the Project would be watering actively disturbed on-site areas at least three times a day.

Table 6– System Wiring and Trenching Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Generator Sets	2	8	84
Water Trucks (Off-Highway Trucks)	1	6	402
Other General Industrial Equipment	1	8	88
Trenchers	2	6	65
Skid Steer Loaders	2	7	78

Inverter installation would commence and work in parallel with solar panel installation and system wiring and trenching. Inverter installation is expected to take about 5 weeks. Inverter installation is expected to generate 32 worker trips and 16 haul truck trips per day traveling to the Project site. On-site parking would be provided for all construction workers. During this construction period, crews of laborers would commence their work at a point on the perimeter or from another point within the site, and continue their work until their assigned area is complete.

The equipment anticipated to be used during inverter installation for the Project is provided in Table 7. During inverter installation each on-road delivery truck may be driving an estimated one mile on on-site unpaved roads to deliver inverter installation construction materials directly to the active work locations. During inverter installation, the Project would be watering actively disturbed on-site areas at least three times a day.

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Table 7– Inverter Installation Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Generator Sets	1	8	84
Water Trucks (Off-Highway Trucks)	1	6	402
Other General Industrial Equipment	1	8	88
Skid Steer Loaders	2	7	78

The electrical substation and switch station for the Project would be built in parallel with the gentie power line. The substation and switch station would be located adjacent to the existing Seville 1 and Seville 2 substation and switch station in Lot C/Lot D of the subdivision. Construction of the substation and switch station would likely require an estimated eight weeks to complete. An estimated 16 worker trips and four haul truck trips per day would be required for construction, each traveling the approximately 0.6 miles of all-weather private road to and from State Route 78 and the substation and switch station. The substation and switch station equipment is expected to be pre-painted and not require painting (coating) on site. The equipment anticipated to be used during substation and switch station construction is provided in Table 8.

Table 8– Anticipated Substation & Switch Station Construction Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Aerial Lifts	2	6	63
Cranes	1	6	231
Other General Industrial Equipment	1	8	88
Tractor/Loader/Backhoe	1	6	97

Construction of the 34.5 kV gentie line would occur simultaneously with initial construction of the Project substation. Approximately 2.25 miles of new 34.5 kV gentie line would be constructed for the Project. Construction of the gentie line would be expected to take approximately four weeks. An estimated 16 worker trips and two vendor trips per day would be required for construction of the gentie line, each traveling an average of 1.7 miles of all-weather private road to and from the construction site and State Route 78. The equipment anticipated to be used during construction of the gentie power line is provided in Table 9.

Table 9– Anticipated GenTie Line Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Aerial Lifts	3	4	63
Crawler Tractors	2	4	212
Other General Industrial Equipment	1	8	88

Once the project’s substation and gentie power line have been constructed, the installed solar panels will begin delivering power to the IID system and operation of the Project will have begun. The Project is not expected to have a regular on-site staff based at the Project site during operation of the solar plant. Workers may occasionally be required to maintain the common access roads and storm water retention basins, clean the solar panels, and/or perform specific maintenance activities. During the Project operations phase, up to eight worker trips and two vendor truck trips could occur daily.



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Periodic washing of the PV modules could be needed to remove dust in order to maintain power generation efficiency. The amount of water needed for this purpose is conservatively estimated at five acre feet per washing (depending on the water required for dust control during panel washing), with up to two washings per year, or a total of up to 10 acre feet per year. This water would be obtained from the Ranch Oasis Mutual Water Company. Each washing is expected to take less than one week to complete. The equipment anticipated to be used during operations is provided in Table 10.

Table 10- Anticipated Operations Equipment

<b>Equipment Type</b>	<b>Amount</b>	<b>Daily Usage (Hours)</b>	<b>Horsepower</b>
Water Trucks (Off-Highway Trucks)	1	6	402

The Project (HSAT array) would consume an estimated 300 kW-hours of electrical energy daily from the IID power system to operate the solar panel trackers, the on-site security system and the solar facility monitoring and control system. The fixed-frame array would expect to consume only 250 kW-hours of electrical energy daily, as there are no solar trackers. Very little general waste is expected to be generated during normal operations.

Table 11, Table 12, and Table 13 summarize the expected number of worker, vendor truck and haul truck trips, respectively, expected per day for each phase of the project construction and operation.

Table 11– Anticipated Worker Trips During Project Construction

	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6			
	Week #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Access Road Construction	12	12																						
Grading/Fencing			104	104	104																			
Racking Installation						112	112	112	112	112	112	112	112	112										
GenTie Power Line Construc.											16	16	16	16										
Substation Construc.											16	16	16	16	16	16	16	16						
Solar Panel Installation											112	112	112	112	112	112	112	112	112					
System Wiring & Trenching															32	32	32	32	32	32	32			
Inverter Installation																			32	32	32	32	32	
Operations																								8

Table 12– Anticipated Vendor Truck Trips During Project Construction

	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6			
	Week #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Access Road Construction	0	0																						
Grading/Fencing			6	6	6																			
Racking Installation						0	0	0	0	0	0	0	0	0										
GenTie Power Line Construc.										2	2	2	2											
Substation Construc.										0	0	0	0	0	0	0	0							
Solar Panel Installation										0	0	0	0	0	0	0	0	0	0					
System Wiring & Trenching														0	0	0	0	0	0	0				
Inverter Installation																	0	0	0	0	0	0		
Operations																								2

SEVILLE 4 SOLAR PROJECT  
 SUPPLEMENTAL PROJECT DESCRIPTION FOR CALEEMOD ASSESSMENT  
 JULY 2017

Table 13 - Anticipated Haul Truck Trips During Project Construction

	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6			
	Week #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>Access Road Construction</b>	12	12																						
<b>Grading/Fencing</b>			4	4	4																			
<b>Racking Installation</b>						10	10	10	10	10	10	10	10	10										
<b>GenTie Power Line Construc.</b>											0	0	0	0										
<b>Substation Construc.</b>											4	4	4	4	4	4	4	4						
<b>Solar Panel Installation</b>											10	10	10	10	10	10	10	10	10	10				
<b>System Wiring &amp; Trenching</b>															10	10	10	10	10	10	10			
<b>Inverter Installation</b>																		16	16	16	16	16	16	16
<b>Operations</b>																								0

ATTACHMENT B

SEVILLE 4 SOLAR PROJECT

CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL:

“SEVILLE 4 PROJECT CONSTRUCTION CALEEMOD V04 HSAT.xls” (HSAT)

“SEVILLE 4 PROJECT CONSTRUCTION CALEEMOD V04 FF.xls” (FIXED FRAME)

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ATTACHMENT B-1

SEVILLE 4 SOLAR PROJECT

HSAT CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL "SEVILLE 4 CALEEMOD V04 HSAT.xls"

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Seville 4 Solar Project - HSAT - Imperial County, Summer

**Seville 4 Solar Project - HSAT  
Imperial County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	174.00	User Defined Unit	174.00	7,579,440.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2018
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MW hr)</b>	1270.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - \*

Land Use - HSAT Facility located on up to approximately 174 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - \*

Off-road Equipment - 3 aerial lifts for 4 hrs; 2 crawler tractors for 4 hrs; 1 other general industrial equipment for 8 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 6 other general industrial equipment for 6 hrs; 2 skid steer loaders for 7 hrs



Seville 4 Solar Project - HSAT - Imperial County, Summer

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Off-road Equipment - 2 aerial lifts for 6 hrs; 1 crane for 6 hrs; 1 other general industrial equipment for 8 hrs; 1 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 2 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 10 acres graded total during access road construction; Approx 522 acres graded total during grading for the HSAT Facility

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The Project would consume an estimated 300 kW-hrs of electrical energy daily;

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	3,100.00	60.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	60.00
tblConstructionPhase	NumDays	3,100.00	42.00

Seville 4 Solar Project - HSAT - Imperial County, Summer

tblConstructionPhase	NumDays	3,100.00	30.00
tblConstructionPhase	NumDays	310.00	12.00
tblConstructionPhase	NumDays	310.00	18.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	0.00	0.02
tblGrading	AcresOfGrading	6.00	10.00
tblGrading	AcresOfGrading	54.00	522.00
tblLandUse	BuildingSpaceSquareFeet	0.00	7,579,440.00
tblLandUse	LandUseSquareFeet	0.00	7,579,440.00
tblLandUse	LotAcreage	0.00	174.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00



Seville 4 Solar Project - HSAT - Imperial County, Summer

tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00

Seville 4 Solar Project - HSAT - Imperial County, Summer

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	6.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	1,242.00	0.00
tblTripsAndVMT	VendorTripNumber	1,242.00	2.00
tblTripsAndVMT	VendorTripNumber	1,242.00	0.00
tblTripsAndVMT	VendorTripNumber	1,242.00	0.00
tblTripsAndVMT	VendorTripNumber	1,242.00	0.00
tblTripsAndVMT	VendorTripNumber	1,242.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	38.00	104.00
tblTripsAndVMT	WorkerTripNumber	3,183.00	112.00
tblTripsAndVMT	WorkerTripNumber	3,183.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,183.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,183.00	112.00

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tblTripsAndVMT	WorkerTripNumber	3,183.00	32.00
tblTripsAndVMT	WorkerTripNumber	3,183.00	32.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.06
tblVehicleTrips	WD_TR	0.00	0.06
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

**2.0 Emissions Summary**

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Seville 4 Solar Project - HSAT - Imperial County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
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	0.0463	0.2776	0.5124	1.0400e-003	26.0615	1.0900e-003	26.0626	2.6011	1.0300e-003	2.6021		105.7493	105.7493	8.8400e-003		105.9702
Offroad	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.6280</b>	<b>6.5215</b>	<b>3.6817</b>	<b>0.0110</b>	<b>26.0615</b>	<b>0.2290</b>	<b>26.2905</b>	<b>2.6011</b>	<b>0.2108</b>	<b>2.8118</b>		<b>1,102.9994</b>	<b>1,102.9994</b>	<b>0.3194</b>	<b>0.0000</b>	<b>1,110.9841</b>



Seville 4 Solar Project - HSAT - Imperial County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
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	0.0463	0.2776	0.5124	1.0400e-003	26.0615	1.0900e-003	26.0626	2.6011	1.0300e-003	2.6021		105.7493	105.7493	8.8400e-003		105.9702
Offroad	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.6280</b>	<b>6.5215</b>	<b>3.6817</b>	<b>0.0110</b>	<b>26.0615</b>	<b>0.2290</b>	<b>26.2905</b>	<b>2.6011</b>	<b>0.2108</b>	<b>2.8118</b>		<b>1,102.9994</b>	<b>1,102.9994</b>	<b>0.3194</b>	<b>0.0000</b>	<b>1,110.9841</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
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**

Seville 4 Solar Project - HSAT - Imperial County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Access Road Construction	Grading	4/1/2018	4/14/2018	6	12	
2	Grading	Grading	4/15/2018	5/5/2018	6	18	
3	Rack Installation	Building Construction	5/6/2018	7/14/2018	6	60	
4	GenTie Line Construction	Building Construction	6/11/2018	7/8/2018	6	24	
5	Substation Construction	Building Construction	6/11/2018	8/5/2018	6	48	
6	Solar Panel Installation	Building Construction	6/11/2018	8/19/2018	6	60	
7	System Wiring and Trenching	Building Construction	7/9/2018	8/26/2018	6	42	
8	Inverter Installation	Building Construction	8/6/2018	9/9/2018	6	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 522

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Road Construction	Excavators	0	8.00	158	0.38
Access Road Construction	Graders	1	8.00	187	0.41
Access Road Construction	Off-Highway Trucks	1	8.00	402	0.38
Access Road Construction	Rollers	1	6.00	80	0.38
Access Road Construction	Rubber Tired Dozers	0	8.00	247	0.40
Access Road Construction	Scrapers	0	8.00	367	0.48
Access Road Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	2	6.00	158	0.38

Seville 4 Solar Project - HSAT - Imperial County, Summer

Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Rack Installation	Cranes	0	7.00	231	0.29
Rack Installation	Forklifts	0	8.00	89	0.20
Rack Installation	Generator Sets	1	8.00	84	0.74
Rack Installation	Off-Highway Trucks	1	6.00	402	0.38
Rack Installation	Other General Industrial Equipment	6	6.00	88	0.34
Rack Installation	Skid Steer Loaders	2	7.00	65	0.37
Rack Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rack Installation	Welders	0	8.00	46	0.45
GenTie Line Construction	Aerial Lifts	3	4.00	63	0.31
GenTie Line Construction	Cranes	0	7.00	231	0.29
GenTie Line Construction	Crawler Tractors	2	4.00	212	0.43
GenTie Line Construction	Forklifts	0	8.00	89	0.20
GenTie Line Construction	Generator Sets	0	8.00	84	0.74
GenTie Line Construction	Other General Industrial Equipment	1	8.00	88	0.34
GenTie Line Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
GenTie Line Construction	Welders	0	8.00	46	0.45
Substation Construction	Aerial Lifts	2	6.00	63	0.31
Substation Construction	Cranes	1	6.00	231	0.29
Substation Construction	Forklifts	0	8.00	89	0.20
Substation Construction	Generator Sets	0	8.00	84	0.74
Substation Construction	Other General Industrial Equipment	1	8.00	88	0.34

Seville 4 Solar Project - HSAT - Imperial County, Summer

Substation Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Substation Construction	Welders	0	8.00	46	0.45
Solar Panal Installation	Cranes	0	7.00	231	0.29
Solar Panal Installation	Forklifts	0	8.00	89	0.20
Solar Panal Installation	Generator Sets	1	8.00	84	0.74
Solar Panal Installation	Off-Highway Trucks	1	6.00	402	0.38
Solar Panal Installation	Other General Industrial Equipment	1	8.00	88	0.34
Solar Panal Installation	Skid Steer Loaders	2	7.00	65	0.37
Solar Panal Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Solar Panal Installation	Trenchers	2	6.00	78	0.50
Solar Panal Installation	Welders	0	8.00	46	0.45
System Wiring and Trenching	Cranes	0	7.00	231	0.29
System Wiring and Trenching	Forklifts	0	8.00	89	0.20
System Wiring and Trenching	Generator Sets	2	8.00	84	0.74
System Wiring and Trenching	Off-Highway Trucks	1	6.00	402	0.38
System Wiring and Trenching	Other General Industrial Equipment	1	8.00	88	0.34
System Wiring and Trenching	Skid Steer Loaders	2	7.00	65	0.37
System Wiring and Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Wiring and Trenching	Trenchers	2	6.00	78	0.50
System Wiring and Trenching	Welders	0	8.00	46	0.45
Inverter Installation	Cranes	0	7.00	231	0.29
Inverter Installation	Forklifts	0	8.00	89	0.20
Inverter Installation	Generator Sets	1	8.00	84	0.74
Inverter Installation	Off-Highway Trucks	1	6.00	402	0.38
Inverter Installation	Other General Industrial Equipment	1	8.00	88	0.34
Inverter Installation	Skid Steer Loaders	2	7.00	65	0.37
Inverter Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Seville 4 Solar Project - HSAT - Imperial County, Summer

Inverter Installation	Welders	0	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Road Construction	3	12.00	0.00	12.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Rack Installation	10	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
GenTie Line Construction	6	16.00	2.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Substation Construction	5	16.00	0.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Solar Panel Installation	7	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
System Wiring and Trenching	8	32.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Inverter Installation	5	32.00	0.00	16.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.2 Access Road Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8838	0.0000	0.8838	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	1.4865	17.3226	7.5679	0.0218		0.6643	0.6643		0.6111	0.6111		2,197.4812	2,197.4812	0.6841		2,214.5838
<b>Total</b>	<b>1.4865</b>	<b>17.3226</b>	<b>7.5679</b>	<b>0.0218</b>	<b>0.8838</b>	<b>0.6643</b>	<b>1.5480</b>	<b>0.0954</b>	<b>0.6111</b>	<b>0.7065</b>		<b>2,197.4812</b>	<b>2,197.4812</b>	<b>0.6841</b>		<b>2,214.5838</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	6.0400e-003	0.2654	0.0330	8.0000e-004	0.0175	1.0000e-003	0.0185	4.8100e-003	9.5000e-004	5.7600e-003		83.4925	83.4925	3.4300e-003		83.5781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0976	0.0626	0.7258	7.3000e-004	0.0667	4.9000e-004	0.0672	0.0177	4.5000e-004	0.0181		72.3902	72.3902	6.9100e-003		72.5629
<b>Total</b>	<b>0.1037</b>	<b>0.3279</b>	<b>0.7589</b>	<b>1.5300e-003</b>	<b>0.0842</b>	<b>1.4900e-003</b>	<b>0.0857</b>	<b>0.0225</b>	<b>1.4000e-003</b>	<b>0.0239</b>		<b>155.8826</b>	<b>155.8826</b>	<b>0.0103</b>		<b>156.1410</b>

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**3.2 Access Road Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	1.4865	17.3226	7.5679	0.0218		0.6643	0.6643		0.6111	0.6111	0.0000	2,197.481 2	2,197.481 2	0.6841		2,214.583 8
<b>Total</b>	<b>1.4865</b>	<b>17.3226</b>	<b>7.5679</b>	<b>0.0218</b>	<b>0.3977</b>	<b>0.6643</b>	<b>1.0619</b>	<b>0.0429</b>	<b>0.6111</b>	<b>0.6541</b>	<b>0.0000</b>	<b>2,197.481 2</b>	<b>2,197.481 2</b>	<b>0.6841</b>		<b>2,214.583 8</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	6.0400e-003	0.2654	0.0330	8.0000e-004	0.0175	1.0000e-003	0.0185	4.8100e-003	9.5000e-004	5.7600e-003		83.4925	83.4925	3.4300e-003		83.5781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0976	0.0626	0.7258	7.3000e-004	0.0667	4.9000e-004	0.0672	0.0177	4.5000e-004	0.0181		72.3902	72.3902	6.9100e-003		72.5629
<b>Total</b>	<b>0.1037</b>	<b>0.3279</b>	<b>0.7589</b>	<b>1.5300e-003</b>	<b>0.0842</b>	<b>1.4900e-003</b>	<b>0.0857</b>	<b>0.0225</b>	<b>1.4000e-003</b>	<b>0.0239</b>		<b>155.8826</b>	<b>155.8826</b>	<b>0.0103</b>		<b>156.1410</b>

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**3.3 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					39.7876	0.0000	39.7876	8.2861	0.0000	8.2861			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554		9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>39.7876</b>	<b>3.6472</b>	<b>43.4348</b>	<b>8.2861</b>	<b>3.3554</b>	<b>11.6415</b>		<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.3400e-003	0.0590	7.3400e-003	1.8000e-004	3.9000e-003	2.2000e-004	4.1200e-003	1.0700e-003	2.1000e-004	1.2800e-003		18.5539	18.5539	7.6000e-004		18.5729
Vendor	0.0349	0.8056	0.2447	1.9800e-003	0.0496	6.9900e-003	0.0566	0.0143	6.6900e-003	0.0210		206.9247	206.9247	0.0119		207.2219
Worker	0.8460	0.5421	6.2906	6.3700e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		627.3813	627.3813	0.0599		628.8783
<b>Total</b>	<b>0.8823</b>	<b>1.4067</b>	<b>6.5427</b>	<b>8.5300e-003</b>	<b>0.6313</b>	<b>0.0114</b>	<b>0.6427</b>	<b>0.1686</b>	<b>0.0108</b>	<b>0.1794</b>		<b>852.8599</b>	<b>852.8599</b>	<b>0.0725</b>		<b>854.6731</b>



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**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					17.9044	0.0000	17.9044	3.7288	0.0000	3.7288			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554	0.0000	9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>17.9044</b>	<b>3.6472</b>	<b>21.5516</b>	<b>3.7288</b>	<b>3.3554</b>	<b>7.0841</b>	<b>0.0000</b>	<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.3400e-003	0.0590	7.3400e-003	1.8000e-004	3.9000e-003	2.2000e-004	4.1200e-003	1.0700e-003	2.1000e-004	1.2800e-003		18.5539	18.5539	7.6000e-004		18.5729
Vendor	0.0349	0.8056	0.2447	1.9800e-003	0.0496	6.9900e-003	0.0566	0.0143	6.6900e-003	0.0210		206.9247	206.9247	0.0119		207.2219
Worker	0.8460	0.5421	6.2906	6.3700e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		627.3813	627.3813	0.0599		628.8783
<b>Total</b>	<b>0.8823</b>	<b>1.4067</b>	<b>6.5427</b>	<b>8.5300e-003</b>	<b>0.6313</b>	<b>0.0114</b>	<b>0.6427</b>	<b>0.1686</b>	<b>0.0108</b>	<b>0.1794</b>		<b>852.8599</b>	<b>852.8599</b>	<b>0.0725</b>		<b>854.6731</b>

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**3.4 Rack Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5690	24.2454	18.5396	0.0316		1.5238	1.5238		1.4229	1.4229		3,143.5262	3,143.5262	0.8296		3,164.2665
<b>Total</b>	<b>2.5690</b>	<b>24.2454</b>	<b>18.5396</b>	<b>0.0316</b>		<b>1.5238</b>	<b>1.5238</b>		<b>1.4229</b>	<b>1.4229</b>		<b>3,143.5262</b>	<b>3,143.5262</b>	<b>0.8296</b>		<b>3,164.2665</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	1.0100e-003	0.0442	5.5100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.9154	13.9154	5.7000e-004		13.9297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9111	0.5838	6.7745	6.8600e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		675.6414	675.6414	0.0645		677.2536
<b>Total</b>	<b>0.9121</b>	<b>0.6280</b>	<b>6.7800</b>	<b>6.9900e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>689.5568</b>	<b>689.5568</b>	<b>0.0651</b>		<b>691.1832</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.4 Rack Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5690	24.2454	18.5396	0.0316		1.5238	1.5238		1.4229	1.4229	0.0000	3,143.5262	3,143.5262	0.8296		3,164.2665
<b>Total</b>	<b>2.5690</b>	<b>24.2454</b>	<b>18.5396</b>	<b>0.0316</b>		<b>1.5238</b>	<b>1.5238</b>		<b>1.4229</b>	<b>1.4229</b>	<b>0.0000</b>	<b>3,143.5262</b>	<b>3,143.5262</b>	<b>0.8296</b>		<b>3,164.2665</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	1.0100e-003	0.0442	5.5100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.9154	13.9154	5.7000e-004		13.9297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9111	0.5838	6.7745	6.8600e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		675.6414	675.6414	0.0645		677.2536
<b>Total</b>	<b>0.9121</b>	<b>0.6280</b>	<b>6.7800</b>	<b>6.9900e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>689.5568</b>	<b>689.5568</b>	<b>0.0651</b>		<b>691.1832</b>

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**3.5 GenTie Line Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9974	12.1853	6.3403	0.0129		0.5579	0.5579		0.5133	0.5133		1,301.477 1	1,301.477 1	0.4052		1,311.606 3
<b>Total</b>	<b>0.9974</b>	<b>12.1853</b>	<b>6.3403</b>	<b>0.0129</b>		<b>0.5579</b>	<b>0.5579</b>		<b>0.5133</b>	<b>0.5133</b>		<b>1,301.477 1</b>	<b>1,301.477 1</b>	<b>0.4052</b>		<b>1,311.606 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0116	0.2685	0.0816	6.6000e-004	0.0165	2.3300e-003	0.0189	4.7600e-003	2.2300e-003	6.9800e-003		68.9749	68.9749	3.9600e-003		69.0740
Worker	0.1302	0.0834	0.9678	9.8000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		96.5202	96.5202	9.2100e-003		96.7505
<b>Total</b>	<b>0.1418</b>	<b>0.3519</b>	<b>1.0494</b>	<b>1.6400e-003</b>	<b>0.1054</b>	<b>2.9800e-003</b>	<b>0.1084</b>	<b>0.0284</b>	<b>2.8300e-003</b>	<b>0.0312</b>		<b>165.4951</b>	<b>165.4951</b>	<b>0.0132</b>		<b>165.8245</b>

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**3.5 GenTie Line Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9974	12.1853	6.3403	0.0129		0.5579	0.5579		0.5133	0.5133	0.0000	1,301.477 1	1,301.477 1	0.4052		1,311.606 3
<b>Total</b>	<b>0.9974</b>	<b>12.1853</b>	<b>6.3403</b>	<b>0.0129</b>		<b>0.5579</b>	<b>0.5579</b>		<b>0.5133</b>	<b>0.5133</b>	<b>0.0000</b>	<b>1,301.477 1</b>	<b>1,301.477 1</b>	<b>0.4052</b>		<b>1,311.606 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0116	0.2685	0.0816	6.6000e-004	0.0165	2.3300e-003	0.0189	4.7600e-003	2.2300e-003	6.9800e-003		68.9749	68.9749	3.9600e-003		69.0740
Worker	0.1302	0.0834	0.9678	9.8000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		96.5202	96.5202	9.2100e-003		96.7505
<b>Total</b>	<b>0.1418</b>	<b>0.3519</b>	<b>1.0494</b>	<b>1.6400e-003</b>	<b>0.1054</b>	<b>2.9800e-003</b>	<b>0.1084</b>	<b>0.0284</b>	<b>2.8300e-003</b>	<b>0.0312</b>		<b>165.4951</b>	<b>165.4951</b>	<b>0.0132</b>		<b>165.8245</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.6 Substation Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9847	10.7686	7.3257	0.0117		0.5973	0.5973		0.5495	0.5495		1,181.1097	1,181.1097	0.3677		1,190.3020
<b>Total</b>	<b>0.9847</b>	<b>10.7686</b>	<b>7.3257</b>	<b>0.0117</b>		<b>0.5973</b>	<b>0.5973</b>		<b>0.5495</b>	<b>0.5495</b>		<b>1,181.1097</b>	<b>1,181.1097</b>	<b>0.3677</b>		<b>1,190.3020</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	5.0000e-004	0.0221	2.7500e-003	7.0000e-005	1.4600e-003	8.0000e-005	1.5400e-003	4.0000e-004	8.0000e-005	4.8000e-004		6.9577	6.9577	2.9000e-004		6.9648
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1302	0.0834	0.9678	9.8000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		96.5202	96.5202	9.2100e-003		96.7505
<b>Total</b>	<b>0.1307</b>	<b>0.1055</b>	<b>0.9705</b>	<b>1.0500e-003</b>	<b>0.0904</b>	<b>7.3000e-004</b>	<b>0.0911</b>	<b>0.0240</b>	<b>6.8000e-004</b>	<b>0.0247</b>		<b>103.4779</b>	<b>103.4779</b>	<b>9.5000e-003</b>		<b>103.7154</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.6 Substation Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9847	10.7686	7.3257	0.0117		0.5973	0.5973		0.5495	0.5495	0.0000	1,181.1097	1,181.1097	0.3677		1,190.3020
<b>Total</b>	<b>0.9847</b>	<b>10.7686</b>	<b>7.3257</b>	<b>0.0117</b>		<b>0.5973</b>	<b>0.5973</b>		<b>0.5495</b>	<b>0.5495</b>	<b>0.0000</b>	<b>1,181.1097</b>	<b>1,181.1097</b>	<b>0.3677</b>		<b>1,190.3020</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	5.0000e-004	0.0221	2.7500e-003	7.0000e-005	1.4600e-003	8.0000e-005	1.5400e-003	4.0000e-004	8.0000e-005	4.8000e-004		6.9577	6.9577	2.9000e-004		6.9648
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1302	0.0834	0.9678	9.8000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		96.5202	96.5202	9.2100e-003		96.7505
<b>Total</b>	<b>0.1307</b>	<b>0.1055</b>	<b>0.9705</b>	<b>1.0500e-003</b>	<b>0.0904</b>	<b>7.3000e-004</b>	<b>0.0911</b>	<b>0.0240</b>	<b>6.8000e-004</b>	<b>0.0247</b>		<b>103.4779</b>	<b>103.4779</b>	<b>9.5000e-003</b>		<b>103.7154</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.7 Solar Panel Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2187	21.1978	15.3575	0.0277		1.2646	1.2646		1.1844	1.1844		2,751.1017	2,751.1017	0.7075		2,768.7878
<b>Total</b>	<b>2.2187</b>	<b>21.1978</b>	<b>15.3575</b>	<b>0.0277</b>		<b>1.2646</b>	<b>1.2646</b>		<b>1.1844</b>	<b>1.1844</b>		<b>2,751.1017</b>	<b>2,751.1017</b>	<b>0.7075</b>		<b>2,768.7878</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	1.0100e-003	0.0442	5.5100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.9154	13.9154	5.7000e-004		13.9297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9111	0.5838	6.7745	6.8600e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		675.6414	675.6414	0.0645		677.2536
<b>Total</b>	<b>0.9121</b>	<b>0.6280</b>	<b>6.7800</b>	<b>6.9900e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>689.5568</b>	<b>689.5568</b>	<b>0.0651</b>		<b>691.1832</b>



Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.7 Solar Panel Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2187	21.1978	15.3575	0.0277		1.2646	1.2646		1.1844	1.1844	0.0000	2,751.1017	2,751.1017	0.7075		2,768.7878
<b>Total</b>	<b>2.2187</b>	<b>21.1978</b>	<b>15.3575</b>	<b>0.0277</b>		<b>1.2646</b>	<b>1.2646</b>		<b>1.1844</b>	<b>1.1844</b>	<b>0.0000</b>	<b>2,751.1017</b>	<b>2,751.1017</b>	<b>0.7075</b>		<b>2,768.7878</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	1.0100e-003	0.0442	5.5100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.9154	13.9154	5.7000e-004		13.9297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.9111	0.5838	6.7745	6.8600e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		675.6414	675.6414	0.0645		677.2536
<b>Total</b>	<b>0.9121</b>	<b>0.6280</b>	<b>6.7800</b>	<b>6.9900e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>689.5568</b>	<b>689.5568</b>	<b>0.0651</b>		<b>691.1832</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.8 System Wiring and Trenching - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7241	25.3111	19.1047	0.0343		1.5266	1.5266		1.4464	1.4464		3,374.1362	3,374.1362	0.7524		3,392.9461
<b>Total</b>	<b>2.7241</b>	<b>25.3111</b>	<b>19.1047</b>	<b>0.0343</b>		<b>1.5266</b>	<b>1.5266</b>		<b>1.4464</b>	<b>1.4464</b>		<b>3,374.1362</b>	<b>3,374.1362</b>	<b>0.7524</b>		<b>3,392.9461</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	1.4400e-003	0.0632	7.8600e-003	1.9000e-004	4.1700e-003	2.4000e-004	4.4100e-003	1.1500e-003	2.3000e-004	1.3700e-003		19.8792	19.8792	8.2000e-004		19.8996
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2603	0.1668	1.9356	1.9600e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		193.0404	193.0404	0.0184		193.5010
<b>Total</b>	<b>0.2618</b>	<b>0.2300</b>	<b>1.9434</b>	<b>2.1500e-003</b>	<b>0.1820</b>	<b>1.5400e-003</b>	<b>0.1835</b>	<b>0.0483</b>	<b>1.4300e-003</b>	<b>0.0497</b>		<b>212.9196</b>	<b>212.9196</b>	<b>0.0192</b>		<b>213.4006</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.8 System Wiring and Trenching - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7241	25.3111	19.1047	0.0343		1.5266	1.5266		1.4464	1.4464	0.0000	3,374.136 2	3,374.136 2	0.7524		3,392.946 1
<b>Total</b>	<b>2.7241</b>	<b>25.3111</b>	<b>19.1047</b>	<b>0.0343</b>		<b>1.5266</b>	<b>1.5266</b>		<b>1.4464</b>	<b>1.4464</b>	<b>0.0000</b>	<b>3,374.136 2</b>	<b>3,374.136 2</b>	<b>0.7524</b>		<b>3,392.946 1</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	1.4400e-003	0.0632	7.8600e-003	1.9000e-004	4.1700e-003	2.4000e-004	4.4100e-003	1.1500e-003	2.3000e-004	1.3700e-003		19.8792	19.8792	8.2000e-004		19.8996
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2603	0.1668	1.9356	1.9600e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		193.0404	193.0404	0.0184		193.5010
<b>Total</b>	<b>0.2618</b>	<b>0.2300</b>	<b>1.9434</b>	<b>2.1500e-003</b>	<b>0.1820</b>	<b>1.5400e-003</b>	<b>0.1835</b>	<b>0.0483</b>	<b>1.4300e-003</b>	<b>0.0497</b>		<b>212.9196</b>	<b>212.9196</b>	<b>0.0192</b>		<b>213.4006</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**3.9 Inverter Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5397	15.0946	11.3802	0.0227		0.8004	0.8004		0.7573	0.7573		2,241.7046	2,241.7046	0.5489		2,255.4262
<b>Total</b>	<b>1.5397</b>	<b>15.0946</b>	<b>11.3802</b>	<b>0.0227</b>		<b>0.8004</b>	<b>0.8004</b>		<b>0.7573</b>	<b>0.7573</b>		<b>2,241.7046</b>	<b>2,241.7046</b>	<b>0.5489</b>		<b>2,255.4262</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	3.2200e-003	0.1415	0.0176	4.2000e-004	9.3500e-003	5.3000e-004	9.8800e-003	2.5600e-003	5.1000e-004	3.0700e-003		44.5293	44.5293	1.8300e-003		44.5750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2603	0.1668	1.9356	1.9600e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		193.0404	193.0404	0.0184		193.5010
<b>Total</b>	<b>0.2635</b>	<b>0.3083</b>	<b>1.9532</b>	<b>2.3800e-003</b>	<b>0.1871</b>	<b>1.8300e-003</b>	<b>0.1890</b>	<b>0.0497</b>	<b>1.7100e-003</b>	<b>0.0514</b>		<b>237.5697</b>	<b>237.5697</b>	<b>0.0203</b>		<b>238.0760</b>

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**3.9 Inverter Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5397	15.0946	11.3802	0.0227		0.8004	0.8004		0.7573	0.7573	0.0000	2,241.7046	2,241.7046	0.5489		2,255.4262
<b>Total</b>	<b>1.5397</b>	<b>15.0946</b>	<b>11.3802</b>	<b>0.0227</b>		<b>0.8004</b>	<b>0.8004</b>		<b>0.7573</b>	<b>0.7573</b>	<b>0.0000</b>	<b>2,241.7046</b>	<b>2,241.7046</b>	<b>0.5489</b>		<b>2,255.4262</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	3.2200e-003	0.1415	0.0176	4.2000e-004	9.3500e-003	5.3000e-004	9.8800e-003	2.5600e-003	5.1000e-004	3.0700e-003		44.5293	44.5293	1.8300e-003		44.5750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2603	0.1668	1.9356	1.9600e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		193.0404	193.0404	0.0184		193.5010
<b>Total</b>	<b>0.2635</b>	<b>0.3083</b>	<b>1.9532</b>	<b>2.3800e-003</b>	<b>0.1871</b>	<b>1.8300e-003</b>	<b>0.1890</b>	<b>0.0497</b>	<b>1.7100e-003</b>	<b>0.0514</b>		<b>237.5697</b>	<b>237.5697</b>	<b>0.0203</b>		<b>238.0760</b>

**4.0 Operational Detail - Mobile**

Seville 4 Solar Project - HSAT - Imperial County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0463	0.2776	0.5124	1.0400e-003	26.0615	1.0900e-003	26.0626	2.6011	1.0300e-003	2.6021		105.7493	105.7493	8.8400e-003		105.9702
Unmitigated	0.0463	0.2776	0.5124	1.0400e-003	26.0615	1.0900e-003	26.0626	2.6011	1.0300e-003	2.6021		105.7493	105.7493	8.8400e-003		105.9702

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.44	10.44	0.00	21,824	21,824
Total	10.44	10.44	0.00	21,824	21,824

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.489745	0.035508	0.162111	0.141569	0.021911	0.005773	0.018523	0.113979	0.002979	0.001120	0.005181	0.000766	0.000834

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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					
User Defined Industrial	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**



Seville 4 Solar Project - HSAT - Imperial County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
Unmitigated	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
<b>Total</b>	<b>1.7200e-003</b>	<b>1.7000e-004</b>	<b>0.0180</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0381</b>	<b>0.0381</b>	<b>1.0000e-004</b>		<b>0.0407</b>

Seville 4 Solar Project - HSAT - Imperial County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
<b>Total</b>	<b>1.7200e-003</b>	<b>1.7000e-004</b>	<b>0.0180</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0381</b>	<b>0.0381</b>	<b>1.0000e-004</b>		<b>0.0407</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - HSAT - Imperial County, Summer

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.5800</b>	<b>6.2438</b>	<b>3.1512</b>	<b>9.9100e-003</b>		<b>0.2279</b>	<b>0.2279</b>		<b>0.2097</b>	<b>0.2097</b>		<b>997.2121</b>	<b>997.2121</b>	<b>0.3105</b>		<b>1,004.9732</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

ATTACHMENT B-2

SEVILLE 4 SOLAR PROJECT

FIXED FRAME CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - SUMMER  
MODEL "SEVILLE 4 CALEEMOD V04 FF.xls"

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**Seville 4 Solar Project - Fixed Frame Array  
Imperial County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	146.00	User Defined Unit	146.00	6,359,760.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

Project Characteristics - \*

Land Use - Fixed Frame Facility located on up to approximately 146 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 438 acres graded total during grading for the Fixed Frame Array

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The fixed-frame array would expect to consume 250 kW-hrs of electrical energy daily

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	310.00	18.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	0.00	0.02

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

tblGrading	AcresOfGrading	54.00	438.00
tblLandUse	BuildingSpaceSquareFeet	0.00	6,359,760.00
tblLandUse	LandUseSquareFeet	0.00	6,359,760.00
tblLandUse	LotAcreage	0.00	146.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	6.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	104.00
tblVehicleTrips	CW_TTP	0.00	100.00



## Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.07
tblVehicleTrips	WD_TR	0.00	0.07
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

## 2.0 Emissions Summary

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
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	0.0392	0.2461	0.4343	9.9000e-004	25.5123	8.3000e-004	25.5132	2.5462	7.9000e-004	2.5470		100.6194	100.6194	7.8800e-003		100.8165
Offroad	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.5379</b>	<b>4.9883</b>	<b>3.3068</b>	<b>0.0109</b>	<b>25.5123</b>	<b>0.1737</b>	<b>25.6860</b>	<b>2.5462</b>	<b>0.1598</b>	<b>2.7060</b>		<b>1,059.6179</b>	<b>1,059.6179</b>	<b>0.3181</b>	<b>0.0000</b>	<b>1,067.5708</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
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	0.0392	0.2461	0.4343	9.9000e-004	25.5123	8.3000e-004	25.5132	2.5462	7.9000e-004	2.5470		100.6194	100.6194	7.8800e-003		100.8165
Offroad	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.5379</b>	<b>4.9883</b>	<b>3.3068</b>	<b>0.0109</b>	<b>25.5123</b>	<b>0.1737</b>	<b>25.6860</b>	<b>2.5462</b>	<b>0.1598</b>	<b>2.7060</b>		<b>1,059.6179</b>	<b>1,059.6179</b>	<b>0.3181</b>	<b>0.0000</b>	<b>1,067.5708</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
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	Grading	Grading	4/15/2018	5/5/2018	6	18	

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

**Acres of Grading (Grading Phase): 438**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	6.00	158	0.38
Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	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
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**3.2 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					34.8386	0.0000	34.8386	7.7517	0.0000	7.7517			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554		9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>34.8386</b>	<b>3.6472</b>	<b>38.4858</b>	<b>7.7517</b>	<b>3.3554</b>	<b>11.1071</b>		<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.3400e-003	0.0590	7.3400e-003	1.8000e-004	3.9000e-003	2.2000e-004	4.1200e-003	1.0700e-003	2.1000e-004	1.2800e-003		18.5539	18.5539	7.6000e-004		18.5729
Vendor	0.0349	0.8056	0.2447	1.9800e-003	0.0496	6.9900e-003	0.0566	0.0143	6.6900e-003	0.0210		206.9247	206.9247	0.0119		207.2219
Worker	0.8460	0.5421	6.2906	6.3700e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		627.3813	627.3813	0.0599		628.8783
<b>Total</b>	<b>0.8823</b>	<b>1.4067</b>	<b>6.5427</b>	<b>8.5300e-003</b>	<b>0.6313</b>	<b>0.0114</b>	<b>0.6427</b>	<b>0.1686</b>	<b>0.0108</b>	<b>0.1794</b>		<b>852.8599</b>	<b>852.8599</b>	<b>0.0725</b>		<b>854.6731</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**3.2 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					15.6774	0.0000	15.6774	3.4883	0.0000	3.4883			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554	0.0000	9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>15.6774</b>	<b>3.6472</b>	<b>19.3246</b>	<b>3.4883</b>	<b>3.3554</b>	<b>6.8437</b>	<b>0.0000</b>	<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.3400e-003	0.0590	7.3400e-003	1.8000e-004	3.9000e-003	2.2000e-004	4.1200e-003	1.0700e-003	2.1000e-004	1.2800e-003		18.5539	18.5539	7.6000e-004		18.5729
Vendor	0.0349	0.8056	0.2447	1.9800e-003	0.0496	6.9900e-003	0.0566	0.0143	6.6900e-003	0.0210		206.9247	206.9247	0.0119		207.2219
Worker	0.8460	0.5421	6.2906	6.3700e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		627.3813	627.3813	0.0599		628.8783
<b>Total</b>	<b>0.8823</b>	<b>1.4067</b>	<b>6.5427</b>	<b>8.5300e-003</b>	<b>0.6313</b>	<b>0.0114</b>	<b>0.6427</b>	<b>0.1686</b>	<b>0.0108</b>	<b>0.1794</b>		<b>852.8599</b>	<b>852.8599</b>	<b>0.0725</b>		<b>854.6731</b>

**4.0 Operational Detail - Mobile**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0392	0.2461	0.4343	9.9000e-004	25.5123	8.3000e-004	25.5132	2.5462	7.9000e-004	2.5470		100.6194	100.6194	7.8800e-003		100.8165
Unmitigated	0.0392	0.2461	0.4343	9.9000e-004	25.5123	8.3000e-004	25.5132	2.5462	7.9000e-004	2.5470		100.6194	100.6194	7.8800e-003		100.8165

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.22	10.22	0.00	21,364	21,364
Total	10.22	10.22	0.00	21,364	21,364

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738



Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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					
User Defined Industrial	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**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
Unmitigated	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
<b>Total</b>	<b>1.4100e-003</b>	<b>1.4000e-004</b>	<b>0.0150</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0320</b>	<b>0.0320</b>	<b>9.0000e-005</b>		<b>0.0341</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
<b>Total</b>	<b>1.4100e-003</b>	<b>1.4000e-004</b>	<b>0.0150</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0320</b>	<b>0.0320</b>	<b>9.0000e-005</b>		<b>0.0341</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

---

**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
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Summer

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.4973</b>	<b>4.7421</b>	<b>2.8576</b>	<b>9.9000e-003</b>		<b>0.1728</b>	<b>0.1728</b>		<b>0.1590</b>	<b>0.1590</b>		<b>958.9665</b>	<b>958.9665</b>	<b>0.3102</b>		<b>966.7202</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

ATTACHMENT B-3

SEVILLE 4 SOLAR PROJECT

HSAT CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - WINTER  
MODEL "SEVILLE 4 CALEEMOD V04 HSAT.xls"

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Seville 4 Solar Project - HSAT - Imperial County, Winter

**Seville 4 Solar Project - HSAT**  
**Imperial County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	174.00	User Defined Unit	174.00	7,579,440.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2018
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MW hr)</b>	1270.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - \*

Land Use - HSAT Facility located on up to approximately 174 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - \*

Off-road Equipment - 3 aerial lifts for 4 hrs; 2 crawler tractors for 4 hrs; 1 other general industrial equipment for 8 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 6 other general industrial equipment for 6 hrs; 2 skid steer loaders for 7 hrs



Seville 4 Solar Project - HSAT - Imperial County, Winter

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Off-road Equipment - 2 aerial lifts for 6 hrs; 1 crane for 6 hrs; 1 other general industrial equipment for 8 hrs; 1 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 2 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 10 acres graded total during access road construction; Approx 522 acres graded total during grading for the HSAT Facility

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The Project would consume an estimated 300 kW-hrs of electrical energy daily;

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

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tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	60.00
tblConstructionPhase	NumDays	3,100.00	42.00

Seville 4 Solar Project - HSAT - Imperial County, Winter

tblConstructionPhase	NumDays	3,100.00	30.00
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tblConstructionPhase	NumDays	310.00	18.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblGrading	AcresOfGrading	54.00	522.00
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tblLandUse	LandUseSquareFeet	0.00	7,579,440.00
tblLandUse	LotAcreage	0.00	174.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Seville 4 Solar Project - HSAT - Imperial County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	PhaseName		Access Road Construction

Seville 4 Solar Project - HSAT - Imperial County, Winter

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Seville 4 Solar Project - HSAT - Imperial County, Winter

tblOnRoadDust	WorkerPercentPave	50.00	100.00
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Seville 4 Solar Project - HSAT - Imperial County, Winter

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tblVehicleTrips	WD_TR	0.00	0.06
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

**2.0 Emissions Summary**

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Seville 4 Solar Project - HSAT - Imperial County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
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	0.0354	0.2812	0.4131	9.3000e-004	26.0615	1.1200e-003	26.0626	2.6011	1.0600e-003	2.6021		94.6676	94.6676	8.5300e-003		94.8810
Offroad	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.6172</b>	<b>6.5251</b>	<b>3.5823</b>	<b>0.0108</b>	<b>26.0615</b>	<b>0.2291</b>	<b>26.2906</b>	<b>2.6011</b>	<b>0.2108</b>	<b>2.8118</b>		<b>1,091.9178</b>	<b>1,091.9178</b>	<b>0.3191</b>	<b>0.0000</b>	<b>1,099.8949</b>



Seville 4 Solar Project - HSAT - Imperial County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
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	0.0354	0.2812	0.4131	9.3000e-004	26.0615	1.1200e-003	26.0626	2.6011	1.0600e-003	2.6021		94.6676	94.6676	8.5300e-003		94.8810
Offroad	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.6172</b>	<b>6.5251</b>	<b>3.5823</b>	<b>0.0108</b>	<b>26.0615</b>	<b>0.2291</b>	<b>26.2906</b>	<b>2.6011</b>	<b>0.2108</b>	<b>2.8118</b>		<b>1,091.9178</b>	<b>1,091.9178</b>	<b>0.3191</b>	<b>0.0000</b>	<b>1,099.8949</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
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**

Seville 4 Solar Project - HSAT - Imperial County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Access Road Construction	Grading	4/1/2018	4/14/2018	6	12	
2	Grading	Grading	4/15/2018	5/5/2018	6	18	
3	Rack Installation	Building Construction	5/6/2018	7/14/2018	6	60	
4	GenTie Line Construction	Building Construction	6/11/2018	7/8/2018	6	24	
5	Substation Construction	Building Construction	6/11/2018	8/5/2018	6	48	
6	Solar Panal Installation	Building Construction	6/11/2018	8/19/2018	6	60	
7	System Wiring and Trenching	Building Construction	7/9/2018	8/26/2018	6	42	
8	Inverter Installation	Building Construction	8/6/2018	9/9/2018	6	30	

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

**Acres of Grading (Grading Phase): 522**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Road Construction	Excavators	0	8.00	158	0.38
Access Road Construction	Graders	1	8.00	187	0.41
Access Road Construction	Off-Highway Trucks	1	8.00	402	0.38
Access Road Construction	Rollers	1	6.00	80	0.38
Access Road Construction	Rubber Tired Dozers	0	8.00	247	0.40
Access Road Construction	Scrapers	0	8.00	367	0.48
Access Road Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	2	6.00	158	0.38

Seville 4 Solar Project - HSAT - Imperial County, Winter

Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Rack Installation	Cranes	0	7.00	231	0.29
Rack Installation	Forklifts	0	8.00	89	0.20
Rack Installation	Generator Sets	1	8.00	84	0.74
Rack Installation	Off-Highway Trucks	1	6.00	402	0.38
Rack Installation	Other General Industrial Equipment	6	6.00	88	0.34
Rack Installation	Skid Steer Loaders	2	7.00	65	0.37
Rack Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rack Installation	Welders	0	8.00	46	0.45
GenTie Line Construction	Aerial Lifts	3	4.00	63	0.31
GenTie Line Construction	Cranes	0	7.00	231	0.29
GenTie Line Construction	Crawler Tractors	2	4.00	212	0.43
GenTie Line Construction	Forklifts	0	8.00	89	0.20
GenTie Line Construction	Generator Sets	0	8.00	84	0.74
GenTie Line Construction	Other General Industrial Equipment	1	8.00	88	0.34
GenTie Line Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
GenTie Line Construction	Welders	0	8.00	46	0.45
Substation Construction	Aerial Lifts	2	6.00	63	0.31
Substation Construction	Cranes	1	6.00	231	0.29
Substation Construction	Forklifts	0	8.00	89	0.20
Substation Construction	Generator Sets	0	8.00	84	0.74
Substation Construction	Other General Industrial Equipment	1	8.00	88	0.34

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Substation Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Substation Construction	Welders	0	8.00	46	0.45
Solar Panal Installation	Cranes	0	7.00	231	0.29
Solar Panal Installation	Forklifts	0	8.00	89	0.20
Solar Panal Installation	Generator Sets	1	8.00	84	0.74
Solar Panal Installation	Off-Highway Trucks	1	6.00	402	0.38
Solar Panal Installation	Other General Industrial Equipment	1	8.00	88	0.34
Solar Panal Installation	Skid Steer Loaders	2	7.00	65	0.37
Solar Panal Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Solar Panal Installation	Trenchers	2	6.00	78	0.50
Solar Panal Installation	Welders	0	8.00	46	0.45
System Wiring and Trenching	Cranes	0	7.00	231	0.29
System Wiring and Trenching	Forklifts	0	8.00	89	0.20
System Wiring and Trenching	Generator Sets	2	8.00	84	0.74
System Wiring and Trenching	Off-Highway Trucks	1	6.00	402	0.38
System Wiring and Trenching	Other General Industrial Equipment	1	8.00	88	0.34
System Wiring and Trenching	Skid Steer Loaders	2	7.00	65	0.37
System Wiring and Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Wiring and Trenching	Trenchers	2	6.00	78	0.50
System Wiring and Trenching	Welders	0	8.00	46	0.45
Inverter Installation	Cranes	0	7.00	231	0.29
Inverter Installation	Forklifts	0	8.00	89	0.20
Inverter Installation	Generator Sets	1	8.00	84	0.74
Inverter Installation	Off-Highway Trucks	1	6.00	402	0.38
Inverter Installation	Other General Industrial Equipment	1	8.00	88	0.34
Inverter Installation	Skid Steer Loaders	2	7.00	65	0.37
Inverter Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37

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Inverter Installation	Welders	0	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Road Construction	3	12.00	0.00	12.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Rack Installation	10	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
GenTie Line Construction	6	16.00	2.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Substation Construction	5	16.00	0.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Solar Panel Installation	7	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
System Wiring and Trenching	8	32.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Inverter Installation	5	32.00	0.00	16.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

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**3.2 Access Road Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8838	0.0000	0.8838	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	1.4865	17.3226	7.5679	0.0218		0.6643	0.6643		0.6111	0.6111		2,197.4812	2,197.4812	0.6841		2,214.5838
<b>Total</b>	<b>1.4865</b>	<b>17.3226</b>	<b>7.5679</b>	<b>0.0218</b>	<b>0.8838</b>	<b>0.6643</b>	<b>1.5480</b>	<b>0.0954</b>	<b>0.6111</b>	<b>0.7065</b>		<b>2,197.4812</b>	<b>2,197.4812</b>	<b>0.6841</b>		<b>2,214.5838</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	6.4000e-003	0.2745	0.0397	7.7000e-004	0.0175	1.0200e-003	0.0186	4.8100e-003	9.8000e-004	5.7800e-003		81.0861	81.0861	3.8300e-003		81.1818
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0782	0.0658	0.5498	6.2000e-004	0.0667	4.9000e-004	0.0672	0.0177	4.5000e-004	0.0181		60.7415	60.7415	5.5800e-003		60.8809
<b>Total</b>	<b>0.0846</b>	<b>0.3403</b>	<b>0.5894</b>	<b>1.3900e-003</b>	<b>0.0842</b>	<b>1.5100e-003</b>	<b>0.0857</b>	<b>0.0225</b>	<b>1.4300e-003</b>	<b>0.0239</b>		<b>141.8277</b>	<b>141.8277</b>	<b>9.4100e-003</b>		<b>142.0628</b>

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**3.2 Access Road Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	1.4865	17.3226	7.5679	0.0218		0.6643	0.6643		0.6111	0.6111	0.0000	2,197.4812	2,197.4812	0.6841		2,214.5838
<b>Total</b>	<b>1.4865</b>	<b>17.3226</b>	<b>7.5679</b>	<b>0.0218</b>	<b>0.3977</b>	<b>0.6643</b>	<b>1.0619</b>	<b>0.0429</b>	<b>0.6111</b>	<b>0.6541</b>	<b>0.0000</b>	<b>2,197.4812</b>	<b>2,197.4812</b>	<b>0.6841</b>		<b>2,214.5838</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	6.4000e-003	0.2745	0.0397	7.7000e-004	0.0175	1.0200e-003	0.0186	4.8100e-003	9.8000e-004	5.7800e-003		81.0861	81.0861	3.8300e-003		81.1818
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0782	0.0658	0.5498	6.2000e-004	0.0667	4.9000e-004	0.0672	0.0177	4.5000e-004	0.0181		60.7415	60.7415	5.5800e-003		60.8809
<b>Total</b>	<b>0.0846</b>	<b>0.3403</b>	<b>0.5894</b>	<b>1.3900e-003</b>	<b>0.0842</b>	<b>1.5100e-003</b>	<b>0.0857</b>	<b>0.0225</b>	<b>1.4300e-003</b>	<b>0.0239</b>		<b>141.8277</b>	<b>141.8277</b>	<b>9.4100e-003</b>		<b>142.0628</b>

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**3.3 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					39.7876	0.0000	39.7876	8.2861	0.0000	8.2861			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554		9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>39.7876</b>	<b>3.6472</b>	<b>43.4348</b>	<b>8.2861</b>	<b>3.3554</b>	<b>11.6415</b>		<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.4200e-003	0.0610	8.8100e-003	1.7000e-004	3.9000e-003	2.3000e-004	4.1200e-003	1.0700e-003	2.2000e-004	1.2900e-003		18.0191	18.0191	8.5000e-004		18.0404
Vendor	0.0359	0.8282	0.2721	1.9100e-003	0.0496	7.0700e-003	0.0566	0.0143	6.7700e-003	0.0210		199.5774	199.5774	0.0131		199.9055
Worker	0.6776	0.5704	4.7646	5.3400e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		526.4264	526.4264	0.0483		527.6347
<b>Total</b>	<b>0.7149</b>	<b>1.4595</b>	<b>5.0456</b>	<b>7.4200e-003</b>	<b>0.6313</b>	<b>0.0115</b>	<b>0.6428</b>	<b>0.1686</b>	<b>0.0109</b>	<b>0.1795</b>		<b>744.0230</b>	<b>744.0230</b>	<b>0.0623</b>		<b>745.5806</b>



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**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					17.9044	0.0000	17.9044	3.7288	0.0000	3.7288			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554	0.0000	9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>17.9044</b>	<b>3.6472</b>	<b>21.5516</b>	<b>3.7288</b>	<b>3.3554</b>	<b>7.0841</b>	<b>0.0000</b>	<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.4200e-003	0.0610	8.8100e-003	1.7000e-004	3.9000e-003	2.3000e-004	4.1200e-003	1.0700e-003	2.2000e-004	1.2900e-003		18.0191	18.0191	8.5000e-004		18.0404
Vendor	0.0359	0.8282	0.2721	1.9100e-003	0.0496	7.0700e-003	0.0566	0.0143	6.7700e-003	0.0210		199.5774	199.5774	0.0131		199.9055
Worker	0.6776	0.5704	4.7646	5.3400e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		526.4264	526.4264	0.0483		527.6347
<b>Total</b>	<b>0.7149</b>	<b>1.4595</b>	<b>5.0456</b>	<b>7.4200e-003</b>	<b>0.6313</b>	<b>0.0115</b>	<b>0.6428</b>	<b>0.1686</b>	<b>0.0109</b>	<b>0.1795</b>		<b>744.0230</b>	<b>744.0230</b>	<b>0.0623</b>		<b>745.5806</b>

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**3.4 Rack Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5690	24.2454	18.5396	0.0316		1.5238	1.5238		1.4229	1.4229		3,143.5262	3,143.5262	0.8296		3,164.2665
<b>Total</b>	<b>2.5690</b>	<b>24.2454</b>	<b>18.5396</b>	<b>0.0316</b>		<b>1.5238</b>	<b>1.5238</b>		<b>1.4229</b>	<b>1.4229</b>		<b>3,143.5262</b>	<b>3,143.5262</b>	<b>0.8296</b>		<b>3,164.2665</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	1.0700e-003	0.0458	6.6100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.5144	13.5144	6.4000e-004		13.5303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7297	0.6142	5.1311	5.7500e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		566.9208	566.9208	0.0521		568.2219
<b>Total</b>	<b>0.7308</b>	<b>0.6600</b>	<b>5.1378</b>	<b>5.8800e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>580.4352</b>	<b>580.4352</b>	<b>0.0527</b>		<b>581.7523</b>

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**3.4 Rack Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5690	24.2454	18.5396	0.0316		1.5238	1.5238		1.4229	1.4229	0.0000	3,143.5262	3,143.5262	0.8296		3,164.2665
<b>Total</b>	<b>2.5690</b>	<b>24.2454</b>	<b>18.5396</b>	<b>0.0316</b>		<b>1.5238</b>	<b>1.5238</b>		<b>1.4229</b>	<b>1.4229</b>	<b>0.0000</b>	<b>3,143.5262</b>	<b>3,143.5262</b>	<b>0.8296</b>		<b>3,164.2665</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	1.0700e-003	0.0458	6.6100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.5144	13.5144	6.4000e-004		13.5303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7297	0.6142	5.1311	5.7500e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		566.9208	566.9208	0.0521		568.2219
<b>Total</b>	<b>0.7308</b>	<b>0.6600</b>	<b>5.1378</b>	<b>5.8800e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>580.4352</b>	<b>580.4352</b>	<b>0.0527</b>		<b>581.7523</b>

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**3.5 GenTie Line Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9974	12.1853	6.3403	0.0129		0.5579	0.5579		0.5133	0.5133		1,301.477 1	1,301.477 1	0.4052		1,311.606 3
<b>Total</b>	<b>0.9974</b>	<b>12.1853</b>	<b>6.3403</b>	<b>0.0129</b>		<b>0.5579</b>	<b>0.5579</b>		<b>0.5133</b>	<b>0.5133</b>		<b>1,301.477 1</b>	<b>1,301.477 1</b>	<b>0.4052</b>		<b>1,311.606 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.2761	0.0907	6.4000e-004	0.0165	2.3600e-003	0.0189	4.7600e-003	2.2600e-003	7.0100e-003		66.5258	66.5258	4.3700e-003		66.6352
Worker	0.1042	0.0878	0.7330	8.2000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		80.9887	80.9887	7.4400e-003		81.1746
<b>Total</b>	<b>0.1162</b>	<b>0.3638</b>	<b>0.8237</b>	<b>1.4600e-003</b>	<b>0.1054</b>	<b>3.0100e-003</b>	<b>0.1084</b>	<b>0.0284</b>	<b>2.8600e-003</b>	<b>0.0312</b>		<b>147.5145</b>	<b>147.5145</b>	<b>0.0118</b>		<b>147.8097</b>

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**3.5 GenTie Line Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9974	12.1853	6.3403	0.0129		0.5579	0.5579		0.5133	0.5133	0.0000	1,301.477 1	1,301.477 1	0.4052		1,311.606 3
<b>Total</b>	<b>0.9974</b>	<b>12.1853</b>	<b>6.3403</b>	<b>0.0129</b>		<b>0.5579</b>	<b>0.5579</b>		<b>0.5133</b>	<b>0.5133</b>	<b>0.0000</b>	<b>1,301.477 1</b>	<b>1,301.477 1</b>	<b>0.4052</b>		<b>1,311.606 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.2761	0.0907	6.4000e-004	0.0165	2.3600e-003	0.0189	4.7600e-003	2.2600e-003	7.0100e-003		66.5258	66.5258	4.3700e-003		66.6352
Worker	0.1042	0.0878	0.7330	8.2000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		80.9887	80.9887	7.4400e-003		81.1746
<b>Total</b>	<b>0.1162</b>	<b>0.3638</b>	<b>0.8237</b>	<b>1.4600e-003</b>	<b>0.1054</b>	<b>3.0100e-003</b>	<b>0.1084</b>	<b>0.0284</b>	<b>2.8600e-003</b>	<b>0.0312</b>		<b>147.5145</b>	<b>147.5145</b>	<b>0.0118</b>		<b>147.8097</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.6 Substation Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9847	10.7686	7.3257	0.0117		0.5973	0.5973		0.5495	0.5495		1,181.1097	1,181.1097	0.3677		1,190.3020
<b>Total</b>	<b>0.9847</b>	<b>10.7686</b>	<b>7.3257</b>	<b>0.0117</b>		<b>0.5973</b>	<b>0.5973</b>		<b>0.5495</b>	<b>0.5495</b>		<b>1,181.1097</b>	<b>1,181.1097</b>	<b>0.3677</b>		<b>1,190.3020</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	5.3000e-004	0.0229	3.3100e-003	6.0000e-005	1.4600e-003	8.0000e-005	1.5500e-003	4.0000e-004	8.0000e-005	4.8000e-004		6.7572	6.7572	3.2000e-004		6.7652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1042	0.0878	0.7330	8.2000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		80.9887	80.9887	7.4400e-003		81.1746
<b>Total</b>	<b>0.1048</b>	<b>0.1106</b>	<b>0.7363</b>	<b>8.8000e-004</b>	<b>0.0904</b>	<b>7.3000e-004</b>	<b>0.0911</b>	<b>0.0240</b>	<b>6.8000e-004</b>	<b>0.0247</b>		<b>87.7459</b>	<b>87.7459</b>	<b>7.7600e-003</b>		<b>87.9397</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.6 Substation Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9847	10.7686	7.3257	0.0117		0.5973	0.5973		0.5495	0.5495	0.0000	1,181.1097	1,181.1097	0.3677		1,190.3020
<b>Total</b>	<b>0.9847</b>	<b>10.7686</b>	<b>7.3257</b>	<b>0.0117</b>		<b>0.5973</b>	<b>0.5973</b>		<b>0.5495</b>	<b>0.5495</b>	<b>0.0000</b>	<b>1,181.1097</b>	<b>1,181.1097</b>	<b>0.3677</b>		<b>1,190.3020</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	5.3000e-004	0.0229	3.3100e-003	6.0000e-005	1.4600e-003	8.0000e-005	1.5500e-003	4.0000e-004	8.0000e-005	4.8000e-004		6.7572	6.7572	3.2000e-004		6.7652
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1042	0.0878	0.7330	8.2000e-004	0.0889	6.5000e-004	0.0895	0.0236	6.0000e-004	0.0242		80.9887	80.9887	7.4400e-003		81.1746
<b>Total</b>	<b>0.1048</b>	<b>0.1106</b>	<b>0.7363</b>	<b>8.8000e-004</b>	<b>0.0904</b>	<b>7.3000e-004</b>	<b>0.0911</b>	<b>0.0240</b>	<b>6.8000e-004</b>	<b>0.0247</b>		<b>87.7459</b>	<b>87.7459</b>	<b>7.7600e-003</b>		<b>87.9397</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.7 Solar Panel Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2187	21.1978	15.3575	0.0277		1.2646	1.2646		1.1844	1.1844		2,751.1017	2,751.1017	0.7075		2,768.7878
<b>Total</b>	<b>2.2187</b>	<b>21.1978</b>	<b>15.3575</b>	<b>0.0277</b>		<b>1.2646</b>	<b>1.2646</b>		<b>1.1844</b>	<b>1.1844</b>		<b>2,751.1017</b>	<b>2,751.1017</b>	<b>0.7075</b>		<b>2,768.7878</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	1.0700e-003	0.0458	6.6100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.5144	13.5144	6.4000e-004		13.5303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7297	0.6142	5.1311	5.7500e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		566.9208	566.9208	0.0521		568.2219
<b>Total</b>	<b>0.7308</b>	<b>0.6600</b>	<b>5.1378</b>	<b>5.8800e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>580.4352</b>	<b>580.4352</b>	<b>0.0527</b>		<b>581.7523</b>



Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.7 Solar Panel Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2187	21.1978	15.3575	0.0277		1.2646	1.2646		1.1844	1.1844	0.0000	2,751.1017	2,751.1017	0.7075		2,768.7878
<b>Total</b>	<b>2.2187</b>	<b>21.1978</b>	<b>15.3575</b>	<b>0.0277</b>		<b>1.2646</b>	<b>1.2646</b>		<b>1.1844</b>	<b>1.1844</b>	<b>0.0000</b>	<b>2,751.1017</b>	<b>2,751.1017</b>	<b>0.7075</b>		<b>2,768.7878</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	1.0700e-003	0.0458	6.6100e-003	1.3000e-004	2.9200e-003	1.7000e-004	3.0900e-003	8.0000e-004	1.6000e-004	9.6000e-004		13.5144	13.5144	6.4000e-004		13.5303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7297	0.6142	5.1311	5.7500e-003	0.6223	4.5500e-003	0.6268	0.1651	4.2000e-003	0.1693		566.9208	566.9208	0.0521		568.2219
<b>Total</b>	<b>0.7308</b>	<b>0.6600</b>	<b>5.1378</b>	<b>5.8800e-003</b>	<b>0.6252</b>	<b>4.7200e-003</b>	<b>0.6299</b>	<b>0.1659</b>	<b>4.3600e-003</b>	<b>0.1703</b>		<b>580.4352</b>	<b>580.4352</b>	<b>0.0527</b>		<b>581.7523</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.8 System Wiring and Trenching - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7241	25.3111	19.1047	0.0343		1.5266	1.5266		1.4464	1.4464		3,374.136 2	3,374.136 2	0.7524		3,392.946 1
<b>Total</b>	<b>2.7241</b>	<b>25.3111</b>	<b>19.1047</b>	<b>0.0343</b>		<b>1.5266</b>	<b>1.5266</b>		<b>1.4464</b>	<b>1.4464</b>		<b>3,374.136 2</b>	<b>3,374.136 2</b>	<b>0.7524</b>		<b>3,392.946 1</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	1.5200e-003	0.0654	9.4400e-003	1.8000e-004	4.1700e-003	2.4000e-004	4.4200e-003	1.1500e-003	2.3000e-004	1.3800e-003		19.3062	19.3062	9.1000e-004		19.3290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2085	0.1755	1.4660	1.6400e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		161.9774	161.9774	0.0149		162.3491
<b>Total</b>	<b>0.2100</b>	<b>0.2409</b>	<b>1.4755</b>	<b>1.8200e-003</b>	<b>0.1820</b>	<b>1.5400e-003</b>	<b>0.1835</b>	<b>0.0483</b>	<b>1.4300e-003</b>	<b>0.0498</b>		<b>181.2836</b>	<b>181.2836</b>	<b>0.0158</b>		<b>181.6781</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.8 System Wiring and Trenching - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7241	25.3111	19.1047	0.0343		1.5266	1.5266		1.4464	1.4464	0.0000	3,374.136 2	3,374.136 2	0.7524		3,392.946 1
<b>Total</b>	<b>2.7241</b>	<b>25.3111</b>	<b>19.1047</b>	<b>0.0343</b>		<b>1.5266</b>	<b>1.5266</b>		<b>1.4464</b>	<b>1.4464</b>	<b>0.0000</b>	<b>3,374.136 2</b>	<b>3,374.136 2</b>	<b>0.7524</b>		<b>3,392.946 1</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	1.5200e-003	0.0654	9.4400e-003	1.8000e-004	4.1700e-003	2.4000e-004	4.4200e-003	1.1500e-003	2.3000e-004	1.3800e-003		19.3062	19.3062	9.1000e-004		19.3290
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2085	0.1755	1.4660	1.6400e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		161.9774	161.9774	0.0149		162.3491
<b>Total</b>	<b>0.2100</b>	<b>0.2409</b>	<b>1.4755</b>	<b>1.8200e-003</b>	<b>0.1820</b>	<b>1.5400e-003</b>	<b>0.1835</b>	<b>0.0483</b>	<b>1.4300e-003</b>	<b>0.0498</b>		<b>181.2836</b>	<b>181.2836</b>	<b>0.0158</b>		<b>181.6781</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.9 Inverter Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5397	15.0946	11.3802	0.0227		0.8004	0.8004		0.7573	0.7573		2,241.7046	2,241.7046	0.5489		2,255.4262
<b>Total</b>	<b>1.5397</b>	<b>15.0946</b>	<b>11.3802</b>	<b>0.0227</b>		<b>0.8004</b>	<b>0.8004</b>		<b>0.7573</b>	<b>0.7573</b>		<b>2,241.7046</b>	<b>2,241.7046</b>	<b>0.5489</b>		<b>2,255.4262</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	3.4100e-003	0.1464	0.0212	4.1000e-004	9.3500e-003	5.4000e-004	9.8900e-003	2.5600e-003	5.2000e-004	3.0800e-003		43.2459	43.2459	2.0400e-003		43.2970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2085	0.1755	1.4660	1.6400e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		161.9774	161.9774	0.0149		162.3491
<b>Total</b>	<b>0.2119</b>	<b>0.3219</b>	<b>1.4872</b>	<b>2.0500e-003</b>	<b>0.1871</b>	<b>1.8400e-003</b>	<b>0.1890</b>	<b>0.0497</b>	<b>1.7200e-003</b>	<b>0.0515</b>		<b>205.2233</b>	<b>205.2233</b>	<b>0.0169</b>		<b>205.6461</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**3.9 Inverter Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5397	15.0946	11.3802	0.0227		0.8004	0.8004		0.7573	0.7573	0.0000	2,241.7046	2,241.7046	0.5489		2,255.4262
<b>Total</b>	<b>1.5397</b>	<b>15.0946</b>	<b>11.3802</b>	<b>0.0227</b>		<b>0.8004</b>	<b>0.8004</b>		<b>0.7573</b>	<b>0.7573</b>	<b>0.0000</b>	<b>2,241.7046</b>	<b>2,241.7046</b>	<b>0.5489</b>		<b>2,255.4262</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	3.4100e-003	0.1464	0.0212	4.1000e-004	9.3500e-003	5.4000e-004	9.8900e-003	2.5600e-003	5.2000e-004	3.0800e-003		43.2459	43.2459	2.0400e-003		43.2970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2085	0.1755	1.4660	1.6400e-003	0.1778	1.3000e-003	0.1791	0.0472	1.2000e-003	0.0484		161.9774	161.9774	0.0149		162.3491
<b>Total</b>	<b>0.2119</b>	<b>0.3219</b>	<b>1.4872</b>	<b>2.0500e-003</b>	<b>0.1871</b>	<b>1.8400e-003</b>	<b>0.1890</b>	<b>0.0497</b>	<b>1.7200e-003</b>	<b>0.0515</b>		<b>205.2233</b>	<b>205.2233</b>	<b>0.0169</b>		<b>205.6461</b>

**4.0 Operational Detail - Mobile**

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Seville 4 Solar Project - HSAT - Imperial County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0354	0.2812	0.4131	9.3000e-004	26.0615	1.1200e-003	26.0626	2.6011	1.0600e-003	2.6021		94.6676	94.6676	8.5300e-003		94.8810
Unmitigated	0.0354	0.2812	0.4131	9.3000e-004	26.0615	1.1200e-003	26.0626	2.6011	1.0600e-003	2.6021		94.6676	94.6676	8.5300e-003		94.8810

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.44	10.44	0.00	21,824	21,824
Total	10.44	10.44	0.00	21,824	21,824

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.489745	0.035508	0.162111	0.141569	0.021911	0.005773	0.018523	0.113979	0.002979	0.001120	0.005181	0.000766	0.000834

Seville 4 Solar Project - HSAT - Imperial County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Seville 4 Solar Project - HSAT - Imperial County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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					
User Defined Industrial	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**



Seville 4 Solar Project - HSAT - Imperial County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
Unmitigated	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
<b>Total</b>	<b>1.7200e-003</b>	<b>1.7000e-004</b>	<b>0.0180</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0381</b>	<b>0.0381</b>	<b>1.0000e-004</b>		<b>0.0407</b>

Seville 4 Solar Project - HSAT - Imperial County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0180	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0381	0.0381	1.0000e-004		0.0407
<b>Total</b>	<b>1.7200e-003</b>	<b>1.7000e-004</b>	<b>0.0180</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0381</b>	<b>0.0381</b>	<b>1.0000e-004</b>		<b>0.0407</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - HSAT - Imperial County, Winter

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.5800	6.2438	3.1512	9.9100e-003		0.2279	0.2279		0.2097	0.2097		997.2121	997.2121	0.3105		1,004.9732
<b>Total</b>	<b>0.5800</b>	<b>6.2438</b>	<b>3.1512</b>	<b>9.9100e-003</b>		<b>0.2279</b>	<b>0.2279</b>		<b>0.2097</b>	<b>0.2097</b>		<b>997.2121</b>	<b>997.2121</b>	<b>0.3105</b>		<b>1,004.9732</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

ATTACHMENT B-4

SEVILLE 4 SOLAR PROJECT

FIXED FRAME CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - WINTER  
MODEL "SEVILLE 4 CALEEMOD V04 FF.xls"

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**Seville 4 Solar Project - Fixed Frame Array**  
**Imperial County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	146.00	User Defined Unit	146.00	6,359,760.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

Project Characteristics - \*

Land Use - Fixed Frame Facility located on up to approximately 146 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 438 acres graded total during grading for the Fixed Frame Array

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The fixed-frame array would expect to consume 250 kW-hrs of electrical energy daily

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	310.00	18.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	0.00	0.02

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

tblGrading	AcresOfGrading	54.00	438.00
tblLandUse	BuildingSpaceSquareFeet	0.00	6,359,760.00
tblLandUse	LandUseSquareFeet	0.00	6,359,760.00
tblLandUse	LotAcreage	0.00	146.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	6.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	104.00
tblVehicleTrips	CW_TTP	0.00	100.00



## Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.07
tblVehicleTrips	WD_TR	0.00	0.07
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

## 2.0 Emissions Summary

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
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	0.0301	0.2481	0.3499	8.8000e-004	25.5123	8.5000e-004	25.5132	2.5462	8.0000e-004	2.5471		90.2592	90.2592	7.6900e-003		90.4513
Offroad	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.5288</b>	<b>4.9903</b>	<b>3.2225</b>	<b>0.0108</b>	<b>25.5123</b>	<b>0.1737</b>	<b>25.6860</b>	<b>2.5462</b>	<b>0.1598</b>	<b>2.7061</b>		<b>1,049.2576</b>	<b>1,049.2576</b>	<b>0.3179</b>	<b>0.0000</b>	<b>1,057.2056</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
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	0.0301	0.2481	0.3499	8.8000e-004	25.5123	8.5000e-004	25.5132	2.5462	8.0000e-004	2.5471		90.2592	90.2592	7.6900e-003		90.4513
Offroad	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.5288</b>	<b>4.9903</b>	<b>3.2225</b>	<b>0.0108</b>	<b>25.5123</b>	<b>0.1737</b>	<b>25.6860</b>	<b>2.5462</b>	<b>0.1598</b>	<b>2.7061</b>		<b>1,049.2576</b>	<b>1,049.2576</b>	<b>0.3179</b>	<b>0.0000</b>	<b>1,057.2056</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
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	Grading	Grading	4/15/2018	5/5/2018	6	18	

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

**Acres of Grading (Grading Phase): 438**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	6.00	158	0.38
Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	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
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**3.2 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					34.8386	0.0000	34.8386	7.7517	0.0000	7.7517			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554		9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>34.8386</b>	<b>3.6472</b>	<b>38.4858</b>	<b>7.7517</b>	<b>3.3554</b>	<b>11.1071</b>		<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.4200e-003	0.0610	8.8100e-003	1.7000e-004	3.9000e-003	2.3000e-004	4.1200e-003	1.0700e-003	2.2000e-004	1.2900e-003		18.0191	18.0191	8.5000e-004		18.0404
Vendor	0.0359	0.8282	0.2721	1.9100e-003	0.0496	7.0700e-003	0.0566	0.0143	6.7700e-003	0.0210		199.5774	199.5774	0.0131		199.9055
Worker	0.6776	0.5704	4.7646	5.3400e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		526.4264	526.4264	0.0483		527.6347
<b>Total</b>	<b>0.7149</b>	<b>1.4595</b>	<b>5.0456</b>	<b>7.4200e-003</b>	<b>0.6313</b>	<b>0.0115</b>	<b>0.6428</b>	<b>0.1686</b>	<b>0.0109</b>	<b>0.1795</b>		<b>744.0230</b>	<b>744.0230</b>	<b>0.0623</b>		<b>745.5806</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**3.2 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					15.6774	0.0000	15.6774	3.4883	0.0000	3.4883			0.0000			0.0000
Off-Road	7.4328	86.4391	47.0666	0.0955		3.6472	3.6472		3.3554	3.3554	0.0000	9,613.154 1	9,613.154 1	2.9927		9,687.971 7
<b>Total</b>	<b>7.4328</b>	<b>86.4391</b>	<b>47.0666</b>	<b>0.0955</b>	<b>15.6774</b>	<b>3.6472</b>	<b>19.3246</b>	<b>3.4883</b>	<b>3.3554</b>	<b>6.8437</b>	<b>0.0000</b>	<b>9,613.154 1</b>	<b>9,613.154 1</b>	<b>2.9927</b>		<b>9,687.971 7</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	1.4200e-003	0.0610	8.8100e-003	1.7000e-004	3.9000e-003	2.3000e-004	4.1200e-003	1.0700e-003	2.2000e-004	1.2900e-003		18.0191	18.0191	8.5000e-004		18.0404
Vendor	0.0359	0.8282	0.2721	1.9100e-003	0.0496	7.0700e-003	0.0566	0.0143	6.7700e-003	0.0210		199.5774	199.5774	0.0131		199.9055
Worker	0.6776	0.5704	4.7646	5.3400e-003	0.5778	4.2300e-003	0.5820	0.1533	3.9000e-003	0.1572		526.4264	526.4264	0.0483		527.6347
<b>Total</b>	<b>0.7149</b>	<b>1.4595</b>	<b>5.0456</b>	<b>7.4200e-003</b>	<b>0.6313</b>	<b>0.0115</b>	<b>0.6428</b>	<b>0.1686</b>	<b>0.0109</b>	<b>0.1795</b>		<b>744.0230</b>	<b>744.0230</b>	<b>0.0623</b>		<b>745.5806</b>

**4.0 Operational Detail - Mobile**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0301	0.2481	0.3499	8.8000e-004	25.5123	8.5000e-004	25.5132	2.5462	8.0000e-004	2.5471		90.2592	90.2592	7.6900e-003		90.4513
Unmitigated	0.0301	0.2481	0.3499	8.8000e-004	25.5123	8.5000e-004	25.5132	2.5462	8.0000e-004	2.5471		90.2592	90.2592	7.6900e-003		90.4513

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.22	10.22	0.00	21,364	21,364
Total	10.22	10.22	0.00	21,364	21,364

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738



Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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					
User Defined Industrial	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**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
Unmitigated	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
<b>Total</b>	<b>1.4100e-003</b>	<b>1.4000e-004</b>	<b>0.0150</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0320</b>	<b>0.0320</b>	<b>9.0000e-005</b>		<b>0.0341</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4100e-003	1.4000e-004	0.0150	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0320	0.0320	9.0000e-005		0.0341
<b>Total</b>	<b>1.4100e-003</b>	<b>1.4000e-004</b>	<b>0.0150</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0320</b>	<b>0.0320</b>	<b>9.0000e-005</b>		<b>0.0341</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Winter

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.4973	4.7421	2.8576	9.9000e-003		0.1728	0.1728		0.1590	0.1590		958.9665	958.9665	0.3102		966.7202
<b>Total</b>	<b>0.4973</b>	<b>4.7421</b>	<b>2.8576</b>	<b>9.9000e-003</b>		<b>0.1728</b>	<b>0.1728</b>		<b>0.1590</b>	<b>0.1590</b>		<b>958.9665</b>	<b>958.9665</b>	<b>0.3102</b>		<b>966.7202</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

ATTACHMENT B-5

SEVILLE 4 SOLAR PROJECT

HSAT CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL "SEVILLE 4 CALEEMOD V04 HSAT.xls"

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**Seville 4 Solar Project - HSAT  
Imperial County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	174.00	User Defined Unit	174.00	7,579,440.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2018
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MW hr)</b>	1270.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - \*

Land Use - HSAT Facility located on up to approximately 174 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - \*

Off-road Equipment - 3 aerial lifts for 4 hrs; 2 crawler tractors for 4 hrs; 1 other general industrial equipment for 8 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs

Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 6 other general industrial equipment for 6 hrs; 2 skid steer loaders for 7 hrs



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Off-road Equipment - 1 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Off-road Equipment - 2 aerial lifts for 6 hrs; 1 crane for 6 hrs; 1 other general industrial equipment for 8 hrs; 1 tractor/loader/backhoe for 6 hrs

Off-road Equipment - 2 generator set for 8 hrs; 1 off-highway (water) truck for 6 hrs, 1 other general industrial equipment for 8 hrs; 2 skid steer loaders for 7 hrs; 2 trenchers for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 10 acres graded total during access road construction; Approx 522 acres graded total during grading for the HSAT Facility

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The Project would consume an estimated 300 kW-hrs of electrical energy daily;

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

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tblEnergyUse	T24E	0.00	0.02
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tblGrading	AcresOfGrading	54.00	522.00
tblLandUse	BuildingSpaceSquareFeet	0.00	7,579,440.00
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tblOffRoadEquipment	PhaseName		Access Road Construction

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tblVehicleTrips	WD_TR	0.00	0.06
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2018	6-30-2018	0.8654	0.8654
2	7-1-2018	9-30-2018	0.5991	0.5991
		Highest	0.8654	0.8654

**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	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	87.3865	87.3865	1.9900e-003	4.1000e-004	87.5593
Mobile	6.0000e-003	0.0442	0.0674	1.5000e-004	4.0656	1.7000e-004	4.0657	0.4058	1.6000e-004	0.4059	0.0000	14.0942	14.0942	1.2000e-003	0.0000	14.1242
Offroad	0.0754	0.8117	0.4097	1.2900e-003		0.0296	0.0296		0.0273	0.0273	0.0000	117.6052	117.6052	0.0366	0.0000	118.5205
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	20.8694	20.8694	4.8000e-004	1.0000e-004	20.9107
<b>Total</b>	<b>0.0816</b>	<b>0.8559</b>	<b>0.4787</b>	<b>1.4400e-003</b>	<b>4.0656</b>	<b>0.0298</b>	<b>4.0954</b>	<b>0.4058</b>	<b>0.0274</b>	<b>0.4332</b>	<b>0.0000</b>	<b>239.9585</b>	<b>239.9585</b>	<b>0.0403</b>	<b>5.1000e-004</b>	<b>241.1181</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	87.3865	87.3865	1.9900e-003	4.1000e-004	87.5593
Mobile	6.0000e-003	0.0442	0.0674	1.5000e-004	4.0656	1.7000e-004	4.0657	0.4058	1.6000e-004	0.4059	0.0000	14.0942	14.0942	1.2000e-003	0.0000	14.1242
Offroad	0.0754	0.8117	0.4097	1.2900e-003		0.0296	0.0296		0.0273	0.0273	0.0000	117.6052	117.6052	0.0366	0.0000	118.5205
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	20.8694	20.8694	4.8000e-004	1.0000e-004	20.9107
<b>Total</b>	<b>0.0816</b>	<b>0.8559</b>	<b>0.4787</b>	<b>1.4400e-003</b>	<b>4.0656</b>	<b>0.0298</b>	<b>4.0954</b>	<b>0.4058</b>	<b>0.0274</b>	<b>0.4332</b>	<b>0.0000</b>	<b>239.9585</b>	<b>239.9585</b>	<b>0.0403</b>	<b>5.1000e-004</b>	<b>241.1181</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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Access Road Construction	Grading	4/1/2018	4/14/2018	6	12	
2	Grading	Grading	4/15/2018	5/5/2018	6	18	
3	Rack Installation	Building Construction	5/6/2018	7/14/2018	6	60	
4	GenTie Line Construction	Building Construction	6/11/2018	7/8/2018	6	24	
5	Substation Construction	Building Construction	6/11/2018	8/5/2018	6	48	
6	Solar Panal Installation	Building Construction	6/11/2018	8/19/2018	6	60	
7	System Wiring and Trenching	Building Construction	7/9/2018	8/26/2018	6	42	
8	Inverter Installation	Building Construction	8/6/2018	9/9/2018	6	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 522

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Road Construction	Excavators	0	8.00	158	0.38
Access Road Construction	Graders	1	8.00	187	0.41
Access Road Construction	Off-Highway Trucks	1	8.00	402	0.38
Access Road Construction	Rollers	1	6.00	80	0.38
Access Road Construction	Rubber Tired Dozers	0	8.00	247	0.40
Access Road Construction	Scrapers	0	8.00	367	0.48
Access Road Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	2	6.00	158	0.38

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Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Rack Installation	Cranes	0	7.00	231	0.29
Rack Installation	Forklifts	0	8.00	89	0.20
Rack Installation	Generator Sets	1	8.00	84	0.74
Rack Installation	Off-Highway Trucks	1	6.00	402	0.38
Rack Installation	Other General Industrial Equipment	6	6.00	88	0.34
Rack Installation	Skid Steer Loaders	2	7.00	65	0.37
Rack Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Rack Installation	Welders	0	8.00	46	0.45
GenTie Line Construction	Aerial Lifts	3	4.00	63	0.31
GenTie Line Construction	Cranes	0	7.00	231	0.29
GenTie Line Construction	Crawler Tractors	2	4.00	212	0.43
GenTie Line Construction	Forklifts	0	8.00	89	0.20
GenTie Line Construction	Generator Sets	0	8.00	84	0.74
GenTie Line Construction	Other General Industrial Equipment	1	8.00	88	0.34
GenTie Line Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
GenTie Line Construction	Welders	0	8.00	46	0.45
Substation Construction	Aerial Lifts	2	6.00	63	0.31
Substation Construction	Cranes	1	6.00	231	0.29
Substation Construction	Forklifts	0	8.00	89	0.20
Substation Construction	Generator Sets	0	8.00	84	0.74
Substation Construction	Other General Industrial Equipment	1	8.00	88	0.34

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Substation Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Substation Construction	Welders	0	8.00	46	0.45
Solar Panal Installation	Cranes	0	7.00	231	0.29
Solar Panal Installation	Forklifts	0	8.00	89	0.20
Solar Panal Installation	Generator Sets	1	8.00	84	0.74
Solar Panal Installation	Off-Highway Trucks	1	6.00	402	0.38
Solar Panal Installation	Other General Industrial Equipment	1	8.00	88	0.34
Solar Panal Installation	Skid Steer Loaders	2	7.00	65	0.37
Solar Panal Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Solar Panal Installation	Trenchers	2	6.00	78	0.50
Solar Panal Installation	Welders	0	8.00	46	0.45
System Wiring and Trenching	Cranes	0	7.00	231	0.29
System Wiring and Trenching	Forklifts	0	8.00	89	0.20
System Wiring and Trenching	Generator Sets	2	8.00	84	0.74
System Wiring and Trenching	Off-Highway Trucks	1	6.00	402	0.38
System Wiring and Trenching	Other General Industrial Equipment	1	8.00	88	0.34
System Wiring and Trenching	Skid Steer Loaders	2	7.00	65	0.37
System Wiring and Trenching	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Wiring and Trenching	Trenchers	2	6.00	78	0.50
System Wiring and Trenching	Welders	0	8.00	46	0.45
Inverter Installation	Cranes	0	7.00	231	0.29
Inverter Installation	Forklifts	0	8.00	89	0.20
Inverter Installation	Generator Sets	1	8.00	84	0.74
Inverter Installation	Off-Highway Trucks	1	6.00	402	0.38
Inverter Installation	Other General Industrial Equipment	1	8.00	88	0.34
Inverter Installation	Skid Steer Loaders	2	7.00	65	0.37
Inverter Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37

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Inverter Installation	Welders	0	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Road Construction	3	12.00	0.00	12.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Rack Installation	10	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
GenTie Line Construction	6	16.00	2.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Substation Construction	5	16.00	0.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Solar Panel Installation	7	112.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
System Wiring and Trenching	8	32.00	0.00	10.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Inverter Installation	5	32.00	0.00	16.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

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**3.2 Access Road Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-003	0.0000	5.3000e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9200e-003	0.1039	0.0454	1.3000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	11.9611	11.9611	3.7200e-003	0.0000	12.0542
<b>Total</b>	<b>8.9200e-003</b>	<b>0.1039</b>	<b>0.0454</b>	<b>1.3000e-004</b>	<b>5.3000e-003</b>	<b>3.9900e-003</b>	<b>9.2900e-003</b>	<b>5.7000e-004</b>	<b>3.6700e-003</b>	<b>4.2400e-003</b>	<b>0.0000</b>	<b>11.9611</b>	<b>11.9611</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>12.0542</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	tons/yr										MT/yr					
Hauling	4.0000e-005	1.6600e-003	2.1000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	2.0000e-005	0.0000	0.4495
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.5600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3567	0.3567	3.0000e-005	0.0000	0.3575
<b>Total</b>	<b>5.3000e-004</b>	<b>2.0500e-003</b>	<b>3.7700e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.8057</b>	<b>0.8057</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.8070</b>

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**3.2 Access Road Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9200e-003	0.1039	0.0454	1.3000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	11.9611	11.9611	3.7200e-003	0.0000	12.0542
<b>Total</b>	<b>8.9200e-003</b>	<b>0.1039</b>	<b>0.0454</b>	<b>1.3000e-004</b>	<b>2.3900e-003</b>	<b>3.9900e-003</b>	<b>6.3800e-003</b>	<b>2.6000e-004</b>	<b>3.6700e-003</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>11.9611</b>	<b>11.9611</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>12.0542</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	tons/yr										MT/yr					
Hauling	4.0000e-005	1.6600e-003	2.1000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	2.0000e-005	0.0000	0.4495
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.5600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3567	0.3567	3.0000e-005	0.0000	0.3575
<b>Total</b>	<b>5.3000e-004</b>	<b>2.0500e-003</b>	<b>3.7700e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.8057</b>	<b>0.8057</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.8070</b>

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**3.3 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3581	0.0000	0.3581	0.0746	0.0000	0.0746	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.7780	0.4236	8.6000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	78.4882	78.4882	0.0244	0.0000	79.0990
<b>Total</b>	<b>0.0669</b>	<b>0.7780</b>	<b>0.4236</b>	<b>8.6000e-004</b>	<b>0.3581</b>	<b>0.0328</b>	<b>0.3909</b>	<b>0.0746</b>	<b>0.0302</b>	<b>0.1048</b>	<b>0.0000</b>	<b>78.4882</b>	<b>78.4882</b>	<b>0.0244</b>	<b>0.0000</b>	<b>79.0990</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	3.1000e-004	7.5000e-003	2.2900e-003	2.0000e-005	4.4000e-004	6.0000e-005	5.1000e-004	1.3000e-004	6.0000e-005	1.9000e-004	0.0000	1.6643	1.6643	1.0000e-004	0.0000	1.6668
Worker	6.3300e-003	5.0400e-003	0.0462	5.0000e-005	5.1600e-003	4.0000e-005	5.2000e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.6370	4.6370	4.2000e-004	0.0000	4.6476
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0131</b>	<b>0.0486</b>	<b>7.0000e-005</b>	<b>5.6300e-003</b>	<b>1.0000e-004</b>	<b>5.7500e-003</b>	<b>1.5100e-003</b>	<b>1.0000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.4510</b>	<b>6.4510</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>6.4642</b>



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**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1611	0.0000	0.1611	0.0336	0.0000	0.0336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.7780	0.4236	8.6000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	78.4881	78.4881	0.0244	0.0000	79.0989
<b>Total</b>	<b>0.0669</b>	<b>0.7780</b>	<b>0.4236</b>	<b>8.6000e-004</b>	<b>0.1611</b>	<b>0.0328</b>	<b>0.1940</b>	<b>0.0336</b>	<b>0.0302</b>	<b>0.0638</b>	<b>0.0000</b>	<b>78.4881</b>	<b>78.4881</b>	<b>0.0244</b>	<b>0.0000</b>	<b>79.0989</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	3.1000e-004	7.5000e-003	2.2900e-003	2.0000e-005	4.4000e-004	6.0000e-005	5.1000e-004	1.3000e-004	6.0000e-005	1.9000e-004	0.0000	1.6643	1.6643	1.0000e-004	0.0000	1.6668
Worker	6.3300e-003	5.0400e-003	0.0462	5.0000e-005	5.1600e-003	4.0000e-005	5.2000e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.6370	4.6370	4.2000e-004	0.0000	4.6476
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0131</b>	<b>0.0486</b>	<b>7.0000e-005</b>	<b>5.6300e-003</b>	<b>1.0000e-004</b>	<b>5.7500e-003</b>	<b>1.5100e-003</b>	<b>1.0000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.4510</b>	<b>6.4510</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>6.4642</b>

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**3.4 Rack Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0771	0.7274	0.5562	9.5000e-004		0.0457	0.0457		0.0427	0.0427	0.0000	85.5528	85.5528	0.0226	0.0000	86.1172
<b>Total</b>	<b>0.0771</b>	<b>0.7274</b>	<b>0.5562</b>	<b>9.5000e-004</b>		<b>0.0457</b>	<b>0.0457</b>		<b>0.0427</b>	<b>0.0427</b>	<b>0.0000</b>	<b>85.5528</b>	<b>85.5528</b>	<b>0.0226</b>	<b>0.0000</b>	<b>86.1172</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0181	0.1660	1.9000e-004	0.0185	1.4000e-004	0.0187	4.9200e-003	1.3000e-004	5.0500e-003	0.0000	16.6457	16.6457	1.5200e-003	0.0000	16.6838
<b>Total</b>	<b>0.0228</b>	<b>0.0195</b>	<b>0.1662</b>	<b>1.9000e-004</b>	<b>0.0186</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>4.9400e-003</b>	<b>1.3000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>17.0199</b>	<b>17.0199</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>17.0583</b>

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**3.4 Rack Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0771	0.7274	0.5562	9.5000e-004		0.0457	0.0457		0.0427	0.0427	0.0000	85.5527	85.5527	0.0226	0.0000	86.1171
<b>Total</b>	<b>0.0771</b>	<b>0.7274</b>	<b>0.5562</b>	<b>9.5000e-004</b>		<b>0.0457</b>	<b>0.0457</b>		<b>0.0427</b>	<b>0.0427</b>	<b>0.0000</b>	<b>85.5527</b>	<b>85.5527</b>	<b>0.0226</b>	<b>0.0000</b>	<b>86.1171</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0181	0.1660	1.9000e-004	0.0185	1.4000e-004	0.0187	4.9200e-003	1.3000e-004	5.0500e-003	0.0000	16.6457	16.6457	1.5200e-003	0.0000	16.6838
<b>Total</b>	<b>0.0228</b>	<b>0.0195</b>	<b>0.1662</b>	<b>1.9000e-004</b>	<b>0.0186</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>4.9400e-003</b>	<b>1.3000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>17.0199</b>	<b>17.0199</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>17.0583</b>

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**3.5 GenTie Line Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0120	0.1462	0.0761	1.6000e-004		6.7000e-003	6.7000e-003		6.1600e-003	6.1600e-003	0.0000	14.1682	14.1682	4.4100e-003	0.0000	14.2784
<b>Total</b>	<b>0.0120</b>	<b>0.1462</b>	<b>0.0761</b>	<b>1.6000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.1600e-003</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>14.1682</b>	<b>14.1682</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>14.2784</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	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	1.4000e-004	3.3300e-003	1.0200e-003	1.0000e-005	2.0000e-004	3.0000e-005	2.3000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.7397	0.7397	4.0000e-005	0.0000	0.7408
Worker	1.3000e-003	1.0300e-003	9.4800e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9512	0.9512	9.0000e-005	0.0000	0.9534
<b>Total</b>	<b>1.4400e-003</b>	<b>4.3600e-003</b>	<b>0.0105</b>	<b>2.0000e-005</b>	<b>1.2600e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>4.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6909</b>	<b>1.6909</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.6942</b>

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**3.5 GenTie Line Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0120	0.1462	0.0761	1.6000e-004		6.7000e-003	6.7000e-003		6.1600e-003	6.1600e-003	0.0000	14.1682	14.1682	4.4100e-003	0.0000	14.2784
<b>Total</b>	<b>0.0120</b>	<b>0.1462</b>	<b>0.0761</b>	<b>1.6000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.1600e-003</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>14.1682</b>	<b>14.1682</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>14.2784</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	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	1.4000e-004	3.3300e-003	1.0200e-003	1.0000e-005	2.0000e-004	3.0000e-005	2.3000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	0.7397	0.7397	4.0000e-005	0.0000	0.7408
Worker	1.3000e-003	1.0300e-003	9.4800e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9512	0.9512	9.0000e-005	0.0000	0.9534
<b>Total</b>	<b>1.4400e-003</b>	<b>4.3600e-003</b>	<b>0.0105</b>	<b>2.0000e-005</b>	<b>1.2600e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>4.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6909</b>	<b>1.6909</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.6942</b>

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**3.6 Substation Construction - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.2585	0.1758	2.8000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	25.7156	25.7156	8.0100e-003	0.0000	25.9158
<b>Total</b>	<b>0.0236</b>	<b>0.2585</b>	<b>0.1758</b>	<b>2.8000e-004</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>25.7156</b>	<b>25.7156</b>	<b>8.0100e-003</b>	<b>0.0000</b>	<b>25.9158</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-003	2.0700e-003	0.0190	2.0000e-005	2.1200e-003	2.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.8000e-004	0.0000	1.9024	1.9024	1.7000e-004	0.0000	1.9067
<b>Total</b>	<b>2.6100e-003</b>	<b>2.6200e-003</b>	<b>0.0190</b>	<b>2.0000e-005</b>	<b>2.1500e-003</b>	<b>2.0000e-005</b>	<b>2.1700e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.0520</b>	<b>2.0520</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.0565</b>

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**3.6 Substation Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0236	0.2585	0.1758	2.8000e-004		0.0143	0.0143		0.0132	0.0132	0.0000	25.7156	25.7156	8.0100e-003	0.0000	25.9157
<b>Total</b>	<b>0.0236</b>	<b>0.2585</b>	<b>0.1758</b>	<b>2.8000e-004</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>25.7156</b>	<b>25.7156</b>	<b>8.0100e-003</b>	<b>0.0000</b>	<b>25.9157</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-003	2.0700e-003	0.0190	2.0000e-005	2.1200e-003	2.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.8000e-004	0.0000	1.9024	1.9024	1.7000e-004	0.0000	1.9067
<b>Total</b>	<b>2.6100e-003</b>	<b>2.6200e-003</b>	<b>0.0190</b>	<b>2.0000e-005</b>	<b>2.1500e-003</b>	<b>2.0000e-005</b>	<b>2.1700e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.0520</b>	<b>2.0520</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.0565</b>

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**3.7 Solar Panel Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0666	0.6359	0.4607	8.3000e-004		0.0379	0.0379		0.0355	0.0355	0.0000	74.8727	74.8727	0.0193	0.0000	75.3541
<b>Total</b>	<b>0.0666</b>	<b>0.6359</b>	<b>0.4607</b>	<b>8.3000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0355</b>	<b>0.0355</b>	<b>0.0000</b>	<b>74.8727</b>	<b>74.8727</b>	<b>0.0193</b>	<b>0.0000</b>	<b>75.3541</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0181	0.1660	1.9000e-004	0.0185	1.4000e-004	0.0187	4.9200e-003	1.3000e-004	5.0500e-003	0.0000	16.6457	16.6457	1.5200e-003	0.0000	16.6838
<b>Total</b>	<b>0.0228</b>	<b>0.0195</b>	<b>0.1662</b>	<b>1.9000e-004</b>	<b>0.0186</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>4.9400e-003</b>	<b>1.3000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>17.0199</b>	<b>17.0199</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>17.0583</b>



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**3.7 Solar Panel Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0666	0.6359	0.4607	8.3000e-004		0.0379	0.0379		0.0355	0.0355	0.0000	74.8726	74.8726	0.0193	0.0000	75.3540
<b>Total</b>	<b>0.0666</b>	<b>0.6359</b>	<b>0.4607</b>	<b>8.3000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0355</b>	<b>0.0355</b>	<b>0.0000</b>	<b>74.8726</b>	<b>74.8726</b>	<b>0.0193</b>	<b>0.0000</b>	<b>75.3540</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0181	0.1660	1.9000e-004	0.0185	1.4000e-004	0.0187	4.9200e-003	1.3000e-004	5.0500e-003	0.0000	16.6457	16.6457	1.5200e-003	0.0000	16.6838
<b>Total</b>	<b>0.0228</b>	<b>0.0195</b>	<b>0.1662</b>	<b>1.9000e-004</b>	<b>0.0186</b>	<b>1.5000e-004</b>	<b>0.0188</b>	<b>4.9400e-003</b>	<b>1.3000e-004</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>17.0199</b>	<b>17.0199</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>17.0583</b>

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**3.8 System Wiring and Trenching - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0572	0.5315	0.4012	7.2000e-004		0.0321	0.0321		0.0304	0.0304	0.0000	64.2803	64.2803	0.0143	0.0000	64.6386
<b>Total</b>	<b>0.0572</b>	<b>0.5315</b>	<b>0.4012</b>	<b>7.2000e-004</b>		<b>0.0321</b>	<b>0.0321</b>		<b>0.0304</b>	<b>0.0304</b>	<b>0.0000</b>	<b>64.2803</b>	<b>64.2803</b>	<b>0.0143</b>	<b>0.0000</b>	<b>64.6386</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5500e-003	3.6200e-003	0.0332	4.0000e-005	3.7100e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.3292	3.3292	3.0000e-004	0.0000	3.3368
<b>Total</b>	<b>4.5800e-003</b>	<b>5.0000e-003</b>	<b>0.0334</b>	<b>4.0000e-005</b>	<b>3.8000e-003</b>	<b>4.0000e-005</b>	<b>3.8200e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.7033</b>	<b>3.7033</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.7113</b>

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**3.8 System Wiring and Trenching - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0572	0.5315	0.4012	7.2000e-004		0.0321	0.0321		0.0304	0.0304	0.0000	64.2802	64.2802	0.0143	0.0000	64.6385
<b>Total</b>	<b>0.0572</b>	<b>0.5315</b>	<b>0.4012</b>	<b>7.2000e-004</b>		<b>0.0321</b>	<b>0.0321</b>		<b>0.0304</b>	<b>0.0304</b>	<b>0.0000</b>	<b>64.2802</b>	<b>64.2802</b>	<b>0.0143</b>	<b>0.0000</b>	<b>64.6385</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	tons/yr										MT/yr					
Hauling	3.0000e-005	1.3800e-003	1.8000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5500e-003	3.6200e-003	0.0332	4.0000e-005	3.7100e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.3292	3.3292	3.0000e-004	0.0000	3.3368
<b>Total</b>	<b>4.5800e-003</b>	<b>5.0000e-003</b>	<b>0.0334</b>	<b>4.0000e-005</b>	<b>3.8000e-003</b>	<b>4.0000e-005</b>	<b>3.8200e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.7033</b>	<b>3.7033</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.7113</b>

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**3.9 Inverter Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0231	0.2264	0.1707	3.4000e-004		0.0120	0.0120		0.0114	0.0114	0.0000	30.5046	30.5046	7.4700e-003	0.0000	30.6913
<b>Total</b>	<b>0.0231</b>	<b>0.2264</b>	<b>0.1707</b>	<b>3.4000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>30.5046</b>	<b>30.5046</b>	<b>7.4700e-003</b>	<b>0.0000</b>	<b>30.6913</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	tons/yr										MT/yr					
Hauling	5.0000e-005	2.2100e-003	2.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5986	0.5986	3.0000e-005	0.0000	0.5993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2500e-003	2.5900e-003	0.0237	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3780	2.3780	2.2000e-004	0.0000	2.3834
<b>Total</b>	<b>3.3000e-003</b>	<b>4.8000e-003</b>	<b>0.0240</b>	<b>4.0000e-005</b>	<b>2.7900e-003</b>	<b>3.0000e-005</b>	<b>2.8200e-003</b>	<b>7.4000e-004</b>	<b>3.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.9766</b>	<b>2.9766</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.9827</b>

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**3.9 Inverter Installation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0231	0.2264	0.1707	3.4000e-004		0.0120	0.0120		0.0114	0.0114	0.0000	30.5046	30.5046	7.4700e-003	0.0000	30.6913
<b>Total</b>	<b>0.0231</b>	<b>0.2264</b>	<b>0.1707</b>	<b>3.4000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>30.5046</b>	<b>30.5046</b>	<b>7.4700e-003</b>	<b>0.0000</b>	<b>30.6913</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	tons/yr										MT/yr					
Hauling	5.0000e-005	2.2100e-003	2.9000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5986	0.5986	3.0000e-005	0.0000	0.5993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2500e-003	2.5900e-003	0.0237	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3780	2.3780	2.2000e-004	0.0000	2.3834
<b>Total</b>	<b>3.3000e-003</b>	<b>4.8000e-003</b>	<b>0.0240</b>	<b>4.0000e-005</b>	<b>2.7900e-003</b>	<b>3.0000e-005</b>	<b>2.8200e-003</b>	<b>7.4000e-004</b>	<b>3.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.9766</b>	<b>2.9766</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.9827</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.0000e-003	0.0442	0.0674	1.5000e-004	4.0656	1.7000e-004	4.0657	0.4058	1.6000e-004	0.4059	0.0000	14.0942	14.0942	1.2000e-003	0.0000	14.1242
Unmitigated	6.0000e-003	0.0442	0.0674	1.5000e-004	4.0656	1.7000e-004	4.0657	0.4058	1.6000e-004	0.4059	0.0000	14.0942	14.0942	1.2000e-003	0.0000	14.1242

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.44	10.44	0.00	21,824	21,824
Total	10.44	10.44	0.00	21,824	21,824

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.489745	0.035508	0.162111	0.141569	0.021911	0.005773	0.018523	0.113979	0.002979	0.001120	0.005181	0.000766	0.000834







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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	151589	87.3865	1.9900e-003	4.1000e-004	87.5593
<b>Total</b>		<b>87.3865</b>	<b>1.9900e-003</b>	<b>4.1000e-004</b>	<b>87.5593</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	151589	87.3865	1.9900e-003	4.1000e-004	87.5593
<b>Total</b>		<b>87.3865</b>	<b>1.9900e-003</b>	<b>4.1000e-004</b>	<b>87.5593</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Seville 4 Solar Project - HSAT - Imperial County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003
Unmitigated	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003
<b>Total</b>	<b>1.5000e-004</b>	<b>2.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.3200e-003</b>

Seville 4 Solar Project - HSAT - Imperial County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	2.0000e-005	1.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3200e-003
<b>Total</b>	<b>1.5000e-004</b>	<b>2.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.3200e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.8694	4.8000e-004	1.0000e-004	20.9107
Unmitigated	20.8694	4.8000e-004	1.0000e-004	20.9107

Seville 4 Solar Project - HSAT - Imperial County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined	0 /	20.8694	4.8000e-004	1.0000e-004	20.9107
Industrial	3.25851				
<b>Total</b>		<b>20.8694</b>	<b>4.8000e-004</b>	<b>1.0000e-004</b>	<b>20.9107</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined	0 /	20.8694	4.8000e-004	1.0000e-004	20.9107
Industrial	3.25851				
<b>Total</b>		<b>20.8694</b>	<b>4.8000e-004</b>	<b>1.0000e-004</b>	<b>20.9107</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Seville 4 Solar Project - HSAT - Imperial County, Annual

**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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	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>

Seville 4 Solar Project - HSAT - Imperial County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined	0	0.0000	0.0000	0.0000	0.0000
Industrial					
<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
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - HSAT - Imperial County, Annual

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Off-Highway Trucks	0.0754	0.8117	0.4097	1.2900e-003		0.0296	0.0296		0.0273	0.0273	0.0000	117.6052	117.6052	0.0366	0.0000	118.5205
<b>Total</b>	<b>0.0754</b>	<b>0.8117</b>	<b>0.4097</b>	<b>1.2900e-003</b>		<b>0.0296</b>	<b>0.0296</b>		<b>0.0273</b>	<b>0.0273</b>	<b>0.0000</b>	<b>117.6052</b>	<b>117.6052</b>	<b>0.0366</b>	<b>0.0000</b>	<b>118.5205</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

ATTACHMENT B-6

SEVILLE 4 SOLAR PROJECT

FIXED FRAME CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS - ANNUAL  
MODEL "SEVILLE 4 CALEEMOD V04 FF.xls"



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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**Seville 4 Solar Project - Fixed Frame Array  
Imperial County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	146.00	User Defined Unit	146.00	6,359,760.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	12
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

Project Characteristics - \*

Land Use - Fixed Frame Facility located on up to approximately 146 acres of land

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - 1 grader for 8 hrs; 1 off-highway (water) truck for 8 hrs, 1 roller for 6 hrs

Off-road Equipment - 2 excavators for 6 hrs; 2 graders for 6 hrs; 2 off-highway (water) truck for 7 hrs, 2 rubber tired dozers; 3 scrapers for 6 hrs; 2 skid steer loaders for 6 hrs; 2 tractor/loader/backhoe for 6 hrs

Trips and VMT - Anticipated Worker, Vendor and Haul Truck Trips Included

On-road Fugitive Dust - All public roads traveled to the Project will be paved. Travel on unpaved private road are calculated in a separate workbook

Grading - Approx 438 acres graded total during grading for the Fixed Frame Array

Vehicle Trips - Anticipated Worker, Vendor and Haul Truck Trips Included

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Consumer Products - None

Area Coating - None

Energy Use - The fixed-frame array would expect to consume 250 kW-hrs of electrical energy daily

Water And Wastewater - 10 acre-feet per year

Construction Off-road Equipment Mitigation - Watering will occur two time per day on exposed areas

Operational Off-Road Equipment - \*

Fleet Mix - \*

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	310.00	18.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	0.00	0.02

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

tblGrading	AcresOfGrading	54.00	438.00
tblLandUse	BuildingSpaceSquareFeet	0.00	6,359,760.00
tblLandUse	LandUseSquareFeet	0.00	6,359,760.00
tblLandUse	LotAcreage	0.00	146.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	6.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	104.00
tblVehicleTrips	CW_TTP	0.00	100.00

## Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	0.07
tblVehicleTrips	WD_TR	0.00	0.07
tblWater	OutdoorWaterUseRate	0.00	3,258,514.27

## 2.0 Emissions Summary

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2018	6-30-2018	0.8654	0.8654
		Highest	0.8654	0.8654

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	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	73.3243	73.3243	1.6700e-003	3.5000e-004	73.4693
Mobile	5.0900e-003	0.0390	0.0572	1.5000e-004	3.9799	1.3000e-004	3.9800	0.3972	1.2000e-004	0.3973	0.0000	13.4297	13.4297	1.0800e-003	0.0000	13.4566
Offroad	0.0647	0.6165	0.3715	1.2900e-003		0.0225	0.0225		0.0207	0.0207	0.0000	113.0948	113.0948	0.0366	0.0000	114.0092
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	20.8694	20.8694	4.8000e-004	1.0000e-004	20.9107
<b>Total</b>	<b>0.0699</b>	<b>0.6555</b>	<b>0.4300</b>	<b>1.4400e-003</b>	<b>3.9799</b>	<b>0.0226</b>	<b>4.0025</b>	<b>0.3972</b>	<b>0.0208</b>	<b>0.4180</b>	<b>0.0000</b>	<b>220.7208</b>	<b>220.7208</b>	<b>0.0398</b>	<b>4.5000e-004</b>	<b>221.8485</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	73.3243	73.3243	1.6700e-003	3.5000e-004	73.4693
Mobile	5.0900e-003	0.0390	0.0572	1.5000e-004	3.9799	1.3000e-004	3.9800	0.3972	1.2000e-004	0.3973	0.0000	13.4297	13.4297	1.0800e-003	0.0000	13.4566
Offroad	0.0647	0.6165	0.3715	1.2900e-003		0.0225	0.0225		0.0207	0.0207	0.0000	113.0948	113.0948	0.0366	0.0000	114.0092
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	20.8694	20.8694	4.8000e-004	1.0000e-004	20.9107
<b>Total</b>	<b>0.0699</b>	<b>0.6555</b>	<b>0.4300</b>	<b>1.4400e-003</b>	<b>3.9799</b>	<b>0.0226</b>	<b>4.0025</b>	<b>0.3972</b>	<b>0.0208</b>	<b>0.4180</b>	<b>0.0000</b>	<b>220.7208</b>	<b>220.7208</b>	<b>0.0398</b>	<b>4.5000e-004</b>	<b>221.8485</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
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	Grading	Grading	4/15/2018	5/5/2018	6	18	



Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

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

**Acres of Grading (Grading Phase): 438**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	6.00	158	0.38
Grading	Graders	2	6.00	187	0.41
Grading	Off-Highway Trucks	2	7.00	402	0.38
Grading	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Scrapers	3	6.00	367	0.48
Grading	Skid Steer Loaders	2	6.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	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
Grading	15	104.00	6.00	4.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Clean Paved Roads

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**3.2 Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3136	0.0000	0.3136	0.0698	0.0000	0.0698	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.7780	0.4236	8.6000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	78.4882	78.4882	0.0244	0.0000	79.0990
<b>Total</b>	<b>0.0669</b>	<b>0.7780</b>	<b>0.4236</b>	<b>8.6000e-004</b>	<b>0.3136</b>	<b>0.0328</b>	<b>0.3464</b>	<b>0.0698</b>	<b>0.0302</b>	<b>0.1000</b>	<b>0.0000</b>	<b>78.4882</b>	<b>78.4882</b>	<b>0.0244</b>	<b>0.0000</b>	<b>79.0990</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	3.1000e-004	7.5000e-003	2.2900e-003	2.0000e-005	4.4000e-004	6.0000e-005	5.1000e-004	1.3000e-004	6.0000e-005	1.9000e-004	0.0000	1.6643	1.6643	1.0000e-004	0.0000	1.6668
Worker	6.3300e-003	5.0400e-003	0.0462	5.0000e-005	5.1600e-003	4.0000e-005	5.2000e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.6370	4.6370	4.2000e-004	0.0000	4.6476
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0131</b>	<b>0.0486</b>	<b>7.0000e-005</b>	<b>5.6300e-003</b>	<b>1.0000e-004</b>	<b>5.7500e-003</b>	<b>1.5100e-003</b>	<b>1.0000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.4510</b>	<b>6.4510</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>6.4642</b>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**3.2 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1411	0.0000	0.1411	0.0314	0.0000	0.0314	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.7780	0.4236	8.6000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	78.4881	78.4881	0.0244	0.0000	79.0989
<b>Total</b>	<b>0.0669</b>	<b>0.7780</b>	<b>0.4236</b>	<b>8.6000e-004</b>	<b>0.1411</b>	<b>0.0328</b>	<b>0.1739</b>	<b>0.0314</b>	<b>0.0302</b>	<b>0.0616</b>	<b>0.0000</b>	<b>78.4881</b>	<b>78.4881</b>	<b>0.0244</b>	<b>0.0000</b>	<b>79.0989</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	tons/yr										MT/yr					
Hauling	1.0000e-005	5.5000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1497	0.1497	1.0000e-005	0.0000	0.1498
Vendor	3.1000e-004	7.5000e-003	2.2900e-003	2.0000e-005	4.4000e-004	6.0000e-005	5.1000e-004	1.3000e-004	6.0000e-005	1.9000e-004	0.0000	1.6643	1.6643	1.0000e-004	0.0000	1.6668
Worker	6.3300e-003	5.0400e-003	0.0462	5.0000e-005	5.1600e-003	4.0000e-005	5.2000e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.6370	4.6370	4.2000e-004	0.0000	4.6476
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0131</b>	<b>0.0486</b>	<b>7.0000e-005</b>	<b>5.6300e-003</b>	<b>1.0000e-004</b>	<b>5.7500e-003</b>	<b>1.5100e-003</b>	<b>1.0000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.4510</b>	<b>6.4510</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>6.4642</b>

**4.0 Operational Detail - Mobile**

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Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0900e-003	0.0390	0.0572	1.5000e-004	3.9799	1.3000e-004	3.9800	0.3972	1.2000e-004	0.3973	0.0000	13.4297	13.4297	1.0800e-003	0.0000	13.4566
Unmitigated	5.0900e-003	0.0390	0.0572	1.5000e-004	3.9799	1.3000e-004	3.9800	0.3972	1.2000e-004	0.3973	0.0000	13.4297	13.4297	1.0800e-003	0.0000	13.4566

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	10.22	10.22	0.00	21,364	21,364
Total	10.22	10.22	0.00	21,364	21,364

**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
User Defined Industrial	6.70	5.00	8.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738





Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	127195	73.3243	1.6700e-003	3.5000e-004	73.4693
<b>Total</b>		<b>73.3243</b>	<b>1.6700e-003</b>	<b>3.5000e-004</b>	<b>73.4693</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	127195	73.3243	1.6700e-003	3.5000e-004	73.4693
<b>Total</b>		<b>73.3243</b>	<b>1.6700e-003</b>	<b>3.5000e-004</b>	<b>73.4693</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003
Unmitigated	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-005</b>	<b>1.3500e-003</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>2.6100e-003</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7800e-003</b>



Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6100e-003	2.6100e-003	1.0000e-005	0.0000	2.7800e-003
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-005</b>	<b>1.3500e-003</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>2.6100e-003</b>	<b>2.6100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.7800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.8694	4.8000e-004	1.0000e-004	20.9107
Unmitigated	20.8694	4.8000e-004	1.0000e-004	20.9107

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined	0 /	20.8694	4.8000e-004	1.0000e-004	20.9107
Industrial	3.25851				
<b>Total</b>		<b>20.8694</b>	<b>4.8000e-004</b>	<b>1.0000e-004</b>	<b>20.9107</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined	0 /	20.8694	4.8000e-004	1.0000e-004	20.9107
Industrial	3.25851				
<b>Total</b>		<b>20.8694</b>	<b>4.8000e-004</b>	<b>1.0000e-004</b>	<b>20.9107</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	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>

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined	0	0.0000	0.0000	0.0000	0.0000
Industrial					
<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
Off-Highway Trucks	1	6.00	260	402	0.38	Diesel

Seville 4 Solar Project - Fixed Frame Array - Imperial County, Annual

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Off-Highway Trucks	0.0647	0.6165	0.3715	1.2900e-003		0.0225	0.0225		0.0207	0.0207	0.0000	113.0948	113.0948	0.0366	0.0000	114.0092
<b>Total</b>	<b>0.0647</b>	<b>0.6165</b>	<b>0.3715</b>	<b>1.2900e-003</b>		<b>0.0225</b>	<b>0.0225</b>		<b>0.0207</b>	<b>0.0207</b>	<b>0.0000</b>	<b>113.0948</b>	<b>113.0948</b>	<b>0.0366</b>	<b>0.0000</b>	<b>114.0092</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

ATTACHMENT B-7

SEVILLE 4 SOLAR PROJECT

HSAT CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS – MITIGATION REPORT  
MODEL “SEVILLE 4 CALEEMOD V04 HSAT.xls”

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## Seville 4 Solar Project - HSAT Imperial County, 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												
Access Road Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GenTie Line Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rack Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Panel Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring and Trenching	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	5	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Crawler Tractors	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Generator Sets	Diesel	No Change	0	5	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Off-Highway Trucks	Diesel	No Change	0	7	No Change	0.00
Other General Industrial Equipment	Diesel	No Change	0	11	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	3	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	10	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	3	No Change	0.00
Trenchers	Diesel	No Change	0	4	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00





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	1.20828E-006	1.20828E-006	0.00000E+000	0.00000E+000	1.19895E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.05477E-006	1.05477E-006	0.00000E+000	0.00000E+000	1.04662E-006
Crawler Tractors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16219E-006	1.16219E-006	0.00000E+000	0.00000E+000	1.15321E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.57150E-006	1.57150E-006	0.00000E+000	0.00000E+000	1.55936E-006
Forklifts	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	0.00000E+000
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20975E-006	1.20975E-006	0.00000E+000	0.00000E+000	1.05663E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.43795E-007	8.43795E-007	0.00000E+000	0.00000E+000	8.37278E-007
Off-Highway Trucks	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23804E-006	1.23804E-006	0.00000E+000	0.00000E+000	1.22848E-006
Other General Industrial Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26358E-006	1.26358E-006	0.00000E+000	0.00000E+000	1.25382E-006
Rollers	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	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.49258E-007	9.49258E-007	0.00000E+000	0.00000E+000	1.88385E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07100E-006	1.07100E-006	0.00000E+000	0.00000E+000	1.06273E-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	1.46076E-006	1.46076E-006	0.00000E+000	0.00000E+000	1.15958E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.23764E-006	2.23764E-006	0.00000E+000	0.00000E+000	1.11018E-006
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.27291E-006	1.27291E-006	0.00000E+000	0.00000E+000	1.26308E-006
Welders	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	0.00000E+000

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
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**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
Electricity	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**

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	-0.01	0.13		
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	0.00		
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal			
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	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	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)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	150.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
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		
No	On-site Renewable		



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		
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
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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ATTACHMENT B-8

SEVILLE 4 SOLAR PROJECT

FIXED FRAME CONSTRUCTION & OPERATION ACTIVITIES

CalEEMod MODEL OUTPUTS – MITIGATION REPORT  
MODEL “SEVILLE 4 CALEEMOD V04 FF.xls”

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## Seville 4 Solar Project - Fixed Frame Array Imperial County, 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												
Grading	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
Excavators	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Off-Highway Trucks	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	3	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	2	No Change	0.00

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					
Excavators	3.90000E-003	4.17900E-002	4.42200E-002	7.00000E-005	2.03000E-003	1.86000E-003	0.00000E+000	6.36336E+000	6.36336E+000	1.98000E-003	0.00000E+000	6.41288E+000
Graders	7.02000E-003	9.62200E-002	2.58500E-002	9.00000E-005	3.13000E-003	2.88000E-003	0.00000E+000	8.20469E+000	8.20469E+000	2.55000E-003	0.00000E+000	8.26855E+000
Off-Highway Trucks	1.21800E-002	1.31120E-001	6.61800E-002	2.10000E-004	4.79000E-003	4.40000E-003	0.00000E+000	1.89978E+001	1.89978E+001	5.91000E-003	0.00000E+000	1.91456E+001
Rubber Tired Dozers	1.57400E-002	1.69560E-001	5.90800E-002	1.20000E-004	8.24000E-003	7.58000E-003	0.00000E+000	1.05345E+001	1.05345E+001	3.28000E-003	0.00000E+000	1.06165E+001
Scrapers	2.32300E-002	2.87380E-001	1.77930E-001	3.10000E-004	1.13300E-002	1.04200E-002	0.00000E+000	2.80113E+001	2.80113E+001	8.72000E-003	0.00000E+000	2.82293E+001
Skid Steer Loaders	1.24000E-003	1.63800E-002	1.87900E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54594E+000	2.54594E+000	7.90000E-004	0.00000E+000	2.56575E+000
Tractors/Loaders/Backhoes	3.59000E-003	3.55000E-002	3.15500E-002	4.00000E-005	2.52000E-003	2.31000E-003	0.00000E+000	3.83057E+000	3.83057E+000	1.19000E-003	0.00000E+000	3.86038E+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					
Excavators	3.90000E-003	4.17900E-002	4.42200E-002	7.00000E-005	2.03000E-003	1.86000E-003	0.00000E+000	6.36335E+000	6.36335E+000	1.98000E-003	0.00000E+000	6.41287E+000
Graders	7.02000E-003	9.62200E-002	2.58500E-002	9.00000E-005	3.13000E-003	2.88000E-003	0.00000E+000	8.20468E+000	8.20468E+000	2.55000E-003	0.00000E+000	8.26854E+000
Off-Highway Trucks	1.21800E-002	1.31120E-001	6.61800E-002	2.10000E-004	4.79000E-003	4.40000E-003	0.00000E+000	1.89977E+001	1.89977E+001	5.91000E-003	0.00000E+000	1.91456E+001
Rubber Tired Dozers	1.57400E-002	1.69560E-001	5.90800E-002	1.20000E-004	8.24000E-003	7.58000E-003	0.00000E+000	1.05345E+001	1.05345E+001	3.28000E-003	0.00000E+000	1.06165E+001
Scrapers	2.32300E-002	2.87380E-001	1.77930E-001	3.10000E-004	1.13300E-002	1.04200E-002	0.00000E+000	2.80113E+001	2.80113E+001	8.72000E-003	0.00000E+000	2.82293E+001
Skid Steer Loaders	1.24000E-003	1.63800E-002	1.87900E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54593E+000	2.54593E+000	7.90000E-004	0.00000E+000	2.56575E+000
Tractors/Loaders/Backhoes	3.59000E-003	3.55000E-002	3.15500E-002	4.00000E-005	2.52000E-003	2.31000E-003	0.00000E+000	3.83056E+000	3.83056E+000	1.19000E-003	0.00000E+000	3.86037E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.57150E-006	1.57150E-006	0.00000E+000	0.00000E+000	1.55936E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21882E-006	1.21882E-006	0.00000E+000	0.00000E+000	1.20940E-006
Off-Highway Trucks	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.57913E-006	1.57913E-006	0.00000E+000	0.00000E+000	1.04463E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.49258E-007	9.49258E-007	0.00000E+000	0.00000E+000	1.88385E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07100E-006	1.07100E-006	0.00000E+000	0.00000E+000	1.06273E-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	3.92782E-006	3.92782E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.61058E-006	2.61058E-006	0.00000E+000	0.00000E+000	2.59042E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	40.00		
Yes	Clean Paved Road	% PM Reduction	0.00				



Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.31	0.07	0.14	0.03	0.55	0.55
Grading	Roads	0.01	0.00	0.01	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
Electricity	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**

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	-0.01	0.13		

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	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	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)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	150.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
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		
No	On-site Renewable		

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		
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	

ATTACHMENT C

AP-42 UNPAVED (PRIVATE) INDUSTRIAL ROAD CALCULATIONS

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## Access Rd Construc Site Dust

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

*s* = Silt content of road surface material (%)

*M* = Surface material moisture content (%)

*W* = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	57.60	61%	3 x Water	98.42	28.12	2.81



## Grading Construc Site Dust

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	307.80	61%	3 x Water	525.92	150.27	15.03

## Rackng Inst Constrc Site Dust 1

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	329.40	61%	3 x Water	562.82	160.81	16.08

## Rackng Inst Constrc Site Dust 2

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

*s* = Silt content of road surface material (%)

*M* = Surface material moisture content (%)

*W* = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	10.00	61%	3 x Water	17.09	4.88	0.49

## Panel Insta Constrc Site Dust 1

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

*s* = Silt content of road surface material (%)

*M* = Surface material moisture content (%)

*W* = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	329.40	61%	3 x Water	562.82	160.81	16.08

## Panel Insta Constrc Site Dust 2

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

*s* = Silt content of road surface material (%)

*M* = Surface material moisture content (%)

*W* = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	10.00	61%	3 x Water	17.09	4.88	0.49

## Wire&Trench Constrc Site Dust 1

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

*s* = Silt content of road surface material (%)

*M* = Surface material moisture content (%)

*W* = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	113.40	61%	3 x Water	193.76	55.36	5.54

## Wire&Trench Constrc Site Dust 2

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	10.00	61%	3 x Water	17.09	4.88	0.49

## Inverter Constrc Site Dust 1

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	86.40	61%	3 x Water	147.63	42.18	4.22



## Inverter Constrc Site Dust 2

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	16.00	61%	3 x Water	27.34	7.81	0.78

## GenTie Line Constrc Site Dust

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	30.60	61%	3 x Water	52.28	14.94	1.49

## Sub & Switch Constrc Site Dust

### Construction Fugitive Dust Emissions from Unpaved Roads

(Emission Factor Source: AP-42 (5th Ed. - 11/06) §13.2.2 - Unpaved Industrial Roads)

$$EF_{PM} \text{ (lbs/VMT)} = ((4.9) * ((s/12)^{0.7}) * ((W/3)^{0.45}))$$

$$EF_{PM_{10}} \text{ (lbs/VMT)} = ((1.5) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

$$EF_{PM_{2.5}} \text{ (lbs/VMT)} = ((0.15) * ((s/12)^{0.9}) * ((W/3)^{0.45}))$$

Where:

s = Silt content of road surface material (%)

M = Surface material moisture content (%)

W = Mean Vehicle Weight (tons)

Road Segment	Silt Content	Moisture Content	Vehicle Weight (tons)	PM Emission Factor (lb/VMT)	PM <sub>10</sub> Emission Factor (lb/VMT)	PM <sub>2.5</sub> Emission Factor (lb/VMT)	VMT per day	Emission Controls		Controlled Emissions (lbs/day)		
								ECF	Technology	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Roads	8.5	0.5	4.00	4.3811	1.2518	0.1252	12.00	61%	3 x Water	20.50	5.86	0.59

ATTACHMENT D

TABLES SUMMARIZING AIR POLLUTANT EMISSIONS CALCULATED BY  
CALEEMOD & AP-42 FOR EACH PROJECT ACTIVITY

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**Access Road Construction 2018**

<b>Seville 4 Solar Project - Winter 2018 Access Road Construction (All-Weather) and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Access Rd Construc. Off-Road	A	1.49	17.32	7.57	0.02		0.66	0.66		0.61	0.61
Grading Fugitive Dust	A					0.88		0.88	0.10		0.10
Onsite Unpaved Fugitive Dust	B					28.12		28.12	2.81		2.81
Access Rd Construc. Offsite Haul	A	0.01	0.27	0.04	0.001	0.02	0.00	0.02	0.00	0.00	0.01
Access Rd Construc. Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Access Rd Construc. Offsite Worker	A	0.08	0.07	0.55	0.0006	0.07	0.0005	0.07	0.02	0.0005	0.02
<b>Total</b>		<b>1.57</b>	<b>17.66</b>	<b>8.16</b>	<b>0.02</b>	<b>29.09</b>	<b>0.67</b>	<b>29.75</b>	<b>2.93</b>	<b>0.61</b>	<b>3.54</b>
<b>Seville 4 Solar Project - Summer 2018 Access Road Construction (All-Weather) and Associated Traffic</b>											
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Access Rd Construc. Off-Road	A	1.49	17.32	7.57	0.02		0.66	0.66		0.61	0.61
Grading Fugitive Dust	A					0.40		0.40	0.04		0.04
Onsite Unpaved Fugitive Dust	B					28.12		28.12	2.81		2.81
Access Rd Construc. Offsite Haul	A	0.01	0.27	0.04	0.001	0.02	0.00	0.02	0.00	0.00	0.01
Access Rd Construc. Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Access Rd Construc. Offsite Worker	A	0.08	0.07	0.55	0.0006	0.07	0.0005	0.07	0.02	0.0005	0.02
<b>Total</b>		<b>1.57</b>	<b>17.66</b>	<b>8.16</b>	<b>0.02</b>	<b>28.60</b>	<b>0.67</b>	<b>29.27</b>	<b>2.88</b>	<b>0.61</b>	<b>3.49</b>
<b>Seville 4 Solar Project - Summer 2018 Access Road Construction (All-Weather) and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Access Rd Construc. Off-Road	A	1.49	17.32	7.57	0.02		0.66	0.66		0.61	0.61
Grading Fugitive Dust	A					0.88		0.88	0.10		0.10
Onsite Unpaved Fugitive Dust	B					28.12		28.12	2.81		2.81
Access Rd Construc. Offsite Haul	A	0.01	0.27	0.03	0.001	0.02	0.00	0.02	0.00	0.00	0.01
Access Rd Construc. Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Access Rd Construc. Offsite Worker	A	0.10	0.06	0.73	0.0007	0.07	0.0005	0.07	0.02	0.0005	0.02
<b>Total</b>		<b>1.59</b>	<b>17.65</b>	<b>8.33</b>	<b>0.02</b>	<b>29.09</b>	<b>0.67</b>	<b>29.75</b>	<b>2.93</b>	<b>0.61</b>	<b>3.54</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Access Rd Construc. Off-Road	A	1.49	17.32	7.57	0.02		0.66	0.66		0.61	0.61
Grading Fugitive Dust	A					0.40		0.40	0.04		0.04
Onsite Unpaved Fugitive Dust	B					28.12		28.12	2.81		2.81
Access Rd Construc. Offsite Haul	A	0.01	0.27	0.03	0.001	0.02	0.00	0.02	0.00	0.00	0.01
Access Rd Construc. Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Access Rd Construc. Offsite Worker	A	0.10	0.06	0.73	0.0007	0.07	0.0005	0.07	0.02	0.0005	0.02
<b>Total</b>		<b>1.59</b>	<b>17.65</b>	<b>8.33</b>	<b>0.02</b>	<b>28.60</b>	<b>0.67</b>	<b>29.27</b>	<b>2.88</b>	<b>0.61</b>	<b>3.49</b>

\* Source A - CalEEMod Model Results  
 Source B - Other Calculated Results

### Grading 2018 HSAT

Seville 4 Solar Project - Winter 2018 HSAT Grading/Fencing and Associated Traffic											
Winter Unmitigated	Source	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Grading/Fencing Fugitive Dust	A					39.79		39.79	8.29		8.29
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.04	0.83	0.27	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.68	0.57	4.76	0.005	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>190.68</b>	<b>3.66</b>	<b>194.34</b>	<b>23.48</b>	<b>3.37</b>	<b>26.85</b>
Winter Mitigated	Source	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Grading/Fencing Fugitive Dust	A					17.90		17.90	3.73		3.73
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.04	0.83	0.27	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.68	0.57	4.76	0.005	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>168.80</b>	<b>3.66</b>	<b>172.46</b>	<b>18.92</b>	<b>3.37</b>	<b>22.29</b>
Seville 4 Solar Project - Summer 2018 Grading and Associated Traffic											
Summer Unmitigated	Source	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Grading/Fencing Fugitive Dust	A					39.79		39.79	8.29		8.29
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.03	0.81	0.24	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.85	0.54	6.29	0.006	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>190.68</b>	<b>3.66</b>	<b>194.34</b>	<b>23.48</b>	<b>3.37</b>	<b>26.85</b>
Summer Mitigated	Source	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Grading/Fencing Fugitive Dust	A					17.90		17.90	3.73		3.73
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.03	0.81	0.24	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.85	0.54	6.29	0.01	0.58	0.00	0.58	0.15	0.00	0.16
<b>Total</b>		<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>168.80</b>	<b>3.66</b>	<b>172.46</b>	<b>18.92</b>	<b>3.37</b>	<b>22.29</b>

\* Source A - CalEEMod Model Results  
 Source B - Other Calculated Results

**Grading 2018 FF**

<b>Seville 4 Solar Project - Winter 2018 Fixed Frame Grading/Fencing and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Grading/Fencing Fugitive Dust	A					34.84		34.84	7.75		7.75
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.03	0.81	0.24	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.85	0.54	6.29	0.006	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>185.74</b>	<b>3.66</b>	<b>189.39</b>	<b>22.95</b>	<b>3.37</b>	<b>26.31</b>
<b>Winter Mitigated</b>	<b>Source</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Grading/Fencing Fugitive Dust	A					15.68	0.00	15.68	3.49	0.00	3.49
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.04	0.83	0.27	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.68	0.57	4.76	0.005	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>166.57</b>	<b>3.66</b>	<b>170.23</b>	<b>18.68</b>	<b>3.37</b>	<b>22.05</b>
<b>Seville 4 Solar Project - Summer 2018 Grading and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Grading/Fencing Fugitive Dust	A					34.84		34.84	7.75		7.75
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.03	0.81	0.24	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.85	0.54	6.29	0.006	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>185.74</b>	<b>3.66</b>	<b>189.39</b>	<b>22.95</b>	<b>3.37</b>	<b>26.31</b>
<b>Summer Mitigated</b>	<b>Source</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Grading/Fencing Fugitive Dust	A					15.68	0.00	15.68	3.49	0.00	3.49
Onsite Unpaved Fugitive Dust	B					150.27		150.27	15.03		15.03
Grading/Fencing Off-Road	A	7.43	86.44	47.07	0.10		3.65	3.65		3.36	3.36
Grading/Fencing Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Fencing Offsite Vendor	A	0.03	0.81	0.24	0.00	0.05	0.01	0.06	0.01	0.01	0.02
Grading/Fencing Offsite Worker	A	0.85	0.54	6.29	0.006	0.58	0.004	0.58	0.15	0.004	0.16
<b>Total</b>		<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>166.57</b>	<b>3.66</b>	<b>170.23</b>	<b>18.68</b>	<b>3.37</b>	<b>22.05</b>

\* Source A - CalEEMod Model Results  
 Source B - Other Calculated Results



### Racking Installation 2018

<b>Seville 4 Solar Project - Winter 2018 Racking Installation and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Racking Installation Off-Road	A	2.57	24.25	18.54	0.03		1.52	1.52		1.42	1.42
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Racking Installation Offsite Haul	A	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Worker	A	0.73	0.61	5.13	0.006	0.62	0.0046	0.63	0.17	0.0042	0.17
<b>Total</b>		<b>3.30</b>	<b>24.91</b>	<b>23.68</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>Seville 4 Solar Project - Summer 2018 Racking Installation and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Racking Installation Off-Road	A	2.57	24.25	18.54	0.03		1.52	1.52		1.42	1.42
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Racking Installation Offsite Haul	A	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Worker	A	0.91	0.58	6.77	0.007	0.62	0.0046	0.63	0.17	0.0042	0.17
<b>Total</b>		<b>3.48</b>	<b>24.87</b>	<b>25.32</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Racking Installation Off-Road	A	2.57	24.25	18.54	0.03		1.52	1.52		1.42	1.42
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Racking Installation Offsite Haul	A	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Vendor	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Racking Installation Offsite Worker	A	0.91	0.58	6.77	0.007	0.62	0.0046	0.63	0.17	0.0042	0.17
<b>Total</b>		<b>3.48</b>	<b>24.87</b>	<b>25.32</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
* Source A - CalEEMod Model Results Source B - Other Calculated Results											

### Solar Panel Installation 2018

Seville 4 Solar Project - Winter 2018 Solar Panel Installation and Associated Traffic											
Winter Unmitigated	Source*	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Panel Installation Off-Road	A	2.22	21.20	15.36	0.03		1.26	1.26		1.18	1.18
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Panel Installation Offsite Haul	A	0.00	0.05	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Worker	A	0.73	0.61	5.13	0.006	0.62	0.00	0.63	0.17	0.004	0.17
<b>Total</b>		<b>2.95</b>	<b>21.86</b>	<b>20.50</b>	<b>0.03</b>	<b>166.32</b>	<b>1.27</b>	<b>167.59</b>	<b>16.74</b>	<b>1.19</b>	<b>17.92</b>
Seville 4 Solar Project - Summer 2018 Solar Panel Installation and Associated Traffic											
Summer Mitigated	Source*	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Panel Installation Off-Road	A	2.22	21.20	15.36	0.03		1.26	1.26		1.18	1.18
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Panel Installation Offsite Haul	A	0.00	0.04	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Worker	A	0.73	0.61	5.13	0.006	0.62	0.00	0.63	0.17	0.004	0.17
<b>Total</b>		<b>2.95</b>	<b>21.85</b>	<b>20.49</b>	<b>0.03</b>	<b>166.32</b>	<b>1.27</b>	<b>167.59</b>	<b>16.74</b>	<b>1.19</b>	<b>17.92</b>
Seville 4 Solar Project - Summer 2018 Solar Panel Installation and Associated Traffic											
Summer Unmitigated	Source*	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Panel Installation Off-Road	A	2.22	21.20	15.36	0.03		1.26	1.26		1.18	1.18
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Panel Installation Offsite Haul	A	0.00	0.04	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Worker	A	0.91	0.58	6.77	0.007	0.62	0.00	0.63	0.17	0.004	0.17
<b>Total</b>		<b>3.13</b>	<b>21.83</b>	<b>22.14</b>	<b>0.03</b>	<b>166.32</b>	<b>1.27</b>	<b>167.59</b>	<b>16.74</b>	<b>1.19</b>	<b>17.92</b>
Seville 4 Solar Project - Summer 2018 Solar Panel Installation and Associated Traffic											
Summer Mitigated	Source*	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	PM10	FUGPM2.5	EXHPM2.5	PM2.5
Panel Installation Off-Road	A	2.22	21.20	15.36	0.03		1.26	1.26		1.18	1.18
Onsite Unpaved Fugitive Dust	B					165.69		165.69	16.57		16.57
Panel Installation Offsite Haul	A	0.00	0.04	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Panel Installation Offsite Worker	A	0.91	0.58	6.77	0.007	0.62	0.00	0.63	0.17	0.004	0.17
<b>Total</b>		<b>3.13</b>	<b>21.82</b>	<b>22.14</b>	<b>0.03</b>	<b>166.32</b>	<b>1.27</b>	<b>167.59</b>	<b>16.74</b>	<b>1.19</b>	<b>17.92</b>
* Source A - CalEEMod Model Results											
Source B - Other Calculated Results											

**Wiring&Trench Construction 2018**

<b>Seville 4 Solar Project - Winter 2018 System Wiring and Trenching and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
System Wiring & Trenching Off-Road	A	2.72	25.31	19.10	0.034		1.53	1.53		1.45	1.45
Onsite Unpaved Fugitive Dust	B					60.24		60.24	6.02		6.02
System Wiring & Trenching Offsite Haul	A	0.00	0.07	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Worker	A	0.21	0.18	1.47	0.0016	0.18	0.0013	0.18	0.05	0.0012	0.05
<b>Total</b>		<b>2.93</b>	<b>25.55</b>	<b>20.58</b>	<b>0.04</b>	<b>60.43</b>	<b>1.53</b>	<b>61.95</b>	<b>6.07</b>	<b>1.45</b>	<b>7.52</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
System Wiring & Trenching Off-Road	A	2.72	25.31	19.10	0.034		1.53	1.53		1.45	1.45
Onsite Unpaved Fugitive Dust	B					60.24		60.24	6.02		6.02
System Wiring & Trenching Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Worker	A	0.21	0.18	1.47	0.0016	0.18	0.0013	0.18	0.05	0.0012	0.05
<b>Total</b>		<b>2.93</b>	<b>25.54</b>	<b>20.58</b>	<b>0.04</b>	<b>60.42</b>	<b>1.53</b>	<b>61.95</b>	<b>6.07</b>	<b>1.45</b>	<b>7.52</b>
<b>Seville 4 Solar Project - Summer 2018 System Wiring and Trenching and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
System Wiring & Trenching Off-Road	A	2.72	25.31	19.10	0.034		1.53	1.53		1.45	1.45
Onsite Unpaved Fugitive Dust	B					60.24		60.24	6.02		6.02
System Wiring & Trenching Offsite Haul	A	0.00	0.06	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Worker	A	0.26	0.17	1.94	0.0020	0.18	0.0013	0.18	0.05	0.0012	0.05
<b>Total</b>		<b>2.99</b>	<b>25.54</b>	<b>21.05</b>	<b>0.04</b>	<b>60.43</b>	<b>1.53</b>	<b>61.95</b>	<b>6.07</b>	<b>1.45</b>	<b>7.52</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
System Wiring & Trenching Off-Road	A	2.72	25.31	19.10	0.034		1.53	1.53		1.45	1.45
Onsite Unpaved Fugitive Dust	B					60.24		60.24	6.02		6.02
System Wiring & Trenching Offsite Haul	A	0.00	0.05	0.01	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
System Wiring & Trenching Offsite Worker	A	0.26	0.17	1.94	0.0020	0.18	0.0013	0.18	0.05	0.0012	0.05
<b>Total</b>		<b>2.99</b>	<b>25.53</b>	<b>21.05</b>	<b>0.04</b>	<b>60.42</b>	<b>1.53</b>	<b>61.95</b>	<b>6.07</b>	<b>1.45</b>	<b>7.52</b>
* Source A - CalEEMod Model Results Source B - Other Calculated Results											

**Inverter Installation 2018**

<b>Seville 4 Solar Project - Winter 2018 Inverter Installation and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Inverter Installation Off-Road	A	1.54	15.09	11.38	0.02		0.80	0.80		0.76	0.76
Onsite Unpaved Fugitive Dust	B					49.99		49.99	5.00		5.00
Inverter Installation Offsite Haul	A	0.00	0.15	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Inverter Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation Offsite Worker	A	0.21	0.18	1.47	0.00	0.18	0.00	0.18	0.05	0.00	0.05
<b>Total</b>		<b>1.75</b>	<b>15.42</b>	<b>12.87</b>	<b>0.02</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Inverter Installation Off-Road	A	1.54	15.09	11.38	0.02		0.80	0.80		0.76	0.76
Onsite Unpaved Fugitive Dust	B					49.99		49.99	5.00		5.00
Inverter Installation Offsite Haul	A	0.00	0.13	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Inverter Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation Offsite Worker	A	0.21	0.18	1.47	0.00	0.18	0.00	0.18	0.05	0.00	0.05
<b>Total</b>		<b>1.75</b>	<b>15.40</b>	<b>12.86</b>	<b>0.02</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>Seville 4 Solar Project - Summer 2018 Inverter Installation and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Inverter Installation Off-Road	A	1.54	15.09	11.38	0.02		0.80	0.80		0.76	0.76
Onsite Unpaved Fugitive Dust	B					49.99		49.99	5.00		5.00
Inverter Installation Offsite Haul	A	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation Offsite Worker	A	0.26	0.17	1.94	0.00	0.18	0.00	0.18	0.05	0.00	0.05
<b>Total</b>		<b>1.80</b>	<b>15.32</b>	<b>13.32</b>	<b>0.02</b>	<b>50.17</b>	<b>0.80</b>	<b>50.97</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Inverter Installation Off-Road	A	1.54	15.09	11.38	0.02		0.80	0.80		0.76	0.76
Onsite Unpaved Fugitive Dust	B					49.99		49.99	5.00		5.00
Inverter Installation Offsite Haul	A	0.00	0.12	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Inverter Installation Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Inverter Installation Offsite Worker	A	0.26	0.17	1.94	0.00	0.18	0.00	0.18	0.05	0.00	0.05
<b>Total</b>		<b>1.80</b>	<b>15.38</b>	<b>13.33</b>	<b>0.03</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
* Source A - CalEEMod Model Results Source B - Other Calculated Results											

**GenTie Line Construction 2018**

<b>Seville 4 Solar Project - Winter 2018 GenTie Power Line Construction and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
GenTie Line Construction Off-Road	A	1.00	12.19	6.34	0.01		0.56	0.56		0.51	0.51
Onsite Unpaved Fugitive Dust	B					14.94		14.94	1.49		1.49
GenTie Line Construction Offsite Haul	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GenTie Line Construction Offsite Vendor	A	0.01	0.28	0.09	0.001	0.02	0.00	0.02	0.00	0.00	0.01
GenTie Line Construction Offsite Worker	A	0.10	0.09	0.73	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.11</b>	<b>12.55</b>	<b>7.16</b>	<b>0.01</b>	<b>15.04</b>	<b>0.56</b>	<b>15.61</b>	<b>1.52</b>	<b>0.52</b>	<b>2.04</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
GenTie Line Construction Off-Road	A	1.00	12.19	6.34	0.01		0.56	0.56		0.51	0.51
Onsite Unpaved Fugitive Dust	B					14.94		14.94	1.49		1.49
GenTie Line Construction Offsite Haul	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GenTie Line Construction Offsite Vendor	A	0.01	0.28	0.09	0.001	0.02	0.00	0.02	0.00	0.00	0.01
GenTie Line Construction Offsite Worker	A	0.10	0.09	0.73	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.11</b>	<b>12.55</b>	<b>7.16</b>	<b>0.01</b>	<b>15.04</b>	<b>0.56</b>	<b>15.61</b>	<b>1.52</b>	<b>0.52</b>	<b>2.04</b>
<b>Seville 4 Solar Project - Summer 2018 GenTie Power Line Construction and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
GenTie Line Construction Off-Road	A	1.00	12.19	6.34	0.01		0.56	0.56		0.51	0.51
Onsite Unpaved Fugitive Dust	B					14.94		14.94	1.49		1.49
GenTie Line Construction Offsite Haul	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GenTie Line Construction Offsite Vendor	A	0.01	0.27	0.08	0.001	0.02	0.00	0.02	0.00	0.00	0.01
GenTie Line Construction Offsite Worker	A	0.13	0.08	0.97	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.14</b>	<b>12.54</b>	<b>7.39</b>	<b>0.01</b>	<b>15.04</b>	<b>0.56</b>	<b>15.61</b>	<b>1.52</b>	<b>0.52</b>	<b>2.04</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
GenTie Line Construction Off-Road	A	1.00	12.19	6.34	0.01		0.56	0.56		0.51	0.51
Onsite Unpaved Fugitive Dust	B					14.94		14.94	1.49		1.49
GenTie Line Construction Offsite Haul	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GenTie Line Construction Offsite Vendor	A	0.01	0.27	0.08	0.001	0.02	0.00	0.02	0.00	0.00	0.01
GenTie Line Construction Offsite Worker	A	0.13	0.08	0.97	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.14</b>	<b>12.54</b>	<b>7.39</b>	<b>0.01</b>	<b>15.04</b>	<b>0.56</b>	<b>15.61</b>	<b>1.52</b>	<b>0.52</b>	<b>2.04</b>

\* Source A - CalEEMod Model Results  
Source B - Other Calculated Results

**Sub & Switch Sta Construc. 2018**

<b>Seville 4 Solar Project - Winter 2018 Substation and Switch Station Construction and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Substation/Switch Sta Construc Off-Road	A	0.98	10.77	7.33	0.01		0.60	0.60		0.55	0.55
Onsite Unpaved Fugitive Dust	B					5.86		5.86	0.59		0.59
Substation/Switch Sta Construc Offsite Haul	A	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Worker	A	0.10	0.09	0.73	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.09</b>	<b>10.88</b>	<b>8.06</b>	<b>0.01</b>	<b>5.95</b>	<b>0.60</b>	<b>6.55</b>	<b>0.61</b>	<b>0.55</b>	<b>1.16</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Substation/Switch Sta Construc Off-Road	A	0.98	10.77	7.33	0.01		0.60	0.60		0.55	0.55
Onsite Unpaved Fugitive Dust	B					5.86		5.86	0.59		0.59
Substation/Switch Sta Construc Offsite Haul	A	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Worker	A	0.10	0.09	0.73	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.09</b>	<b>10.88</b>	<b>8.06</b>	<b>0.01</b>	<b>5.95</b>	<b>0.60</b>	<b>6.55</b>	<b>0.61</b>	<b>0.55</b>	<b>1.16</b>
<b>Seville 4 Solar Project - Summer 2018 Substation and Switch Station Construction and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Substation/Switch Sta Construc Off-Road	A	0.98	10.77	7.33	0.01		0.60	0.60		0.55	0.55
Onsite Unpaved Fugitive Dust	B					5.86		5.86	0.59		0.59
Substation/Switch Sta Construc Offsite Haul	A	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Worker	A	0.13	0.08	0.97	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.12</b>	<b>10.87</b>	<b>8.30</b>	<b>0.01</b>	<b>5.95</b>	<b>0.60</b>	<b>6.55</b>	<b>0.61</b>	<b>0.55</b>	<b>1.16</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Substation/Switch Sta Construc Off-Road	A	0.98	10.77	7.33	0.01		0.60	0.60		0.55	0.55
Onsite Unpaved Fugitive Dust	B					5.86		5.86	0.59		0.59
Substation/Switch Sta Construc Offsite Haul	A	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Vendor	A	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Substation/Switch Sta Construc Offsite Worker	A	0.13	0.08	0.97	0.00	0.09	0.00	0.09	0.02	0.00	0.02
<b>Total</b>		<b>1.12</b>	<b>10.87</b>	<b>8.30</b>	<b>0.01</b>	<b>5.95</b>	<b>0.60</b>	<b>6.55</b>	<b>0.61</b>	<b>0.55</b>	<b>1.16</b>
* Source A - CalEEMod Model Results Source B - Other Calculated Results											

### HSAT Construction Annual CO2e

Seville 4 Solar Project - HSAT Annual Construction and Associated Traffic					
Annual Unmitigated	Emission Rate (Metric Tons/year)				
	Bio-CO2	NBio-CO2	Total CO2	CH4	CO2e
Access Road Construction 2018 - Offroad	0.00	11.96	11.96	0.0037	12.05
Access Road Construction 2018 - Mobile	0.00	0.81	0.81	0.0001	0.81
Grading/Fencing 2018 - Offroad	0.00	78.49	78.49	0.0244	79.10
Grading/Fencing 2018 - Mobile	0.00	6.45	6.45	0.0005	6.46
Racking Installation 2018 - Offroad	0.00	85.55	85.55	0.0226	86.12
Racking Installation 2018 - Mobile	0.00	17.02	17.02	0.0015	17.06
Solar Panel Installation 2015 - Offroad	0.00	74.87	74.87	0.0193	75.35
Solar Panel Installation 2015 - Mobile	0.00	17.02	17.02	0.0015	17.06
System Wiring and Trenching 2018 - Offroad	0.00	64.28	64.28	0.0143	64.64
System Wiring and Trenching 2018 - Mobile	0.00	3.70	3.70	0.0003	3.71
Inverter Installation 2018 - Offroad	0.00	30.50	30.50	0.0075	30.69
Inverter Installation 2018 - Mobile	0.00	2.98	2.98	0.0003	2.98
GenTie Power Line Construction 2018 - Offroad	0.00	14.17	14.17	0.0044	14.28
GenTie Power Line Construction 2018 - Mobile	0.00	1.69	1.69	0.0001	1.69
Substation/Switch Station Construc 2018 - Offroad	0.00	25.72	25.72	0.0080	25.92
Substation/Switch Station Construc 2018 - Mobile	0.00	2.05	2.05	0.0002	2.06
<b>Total</b>	<b>0.00</b>	<b>437.26</b>	<b>437.26</b>	<b>0.11</b>	<b>439.98</b>
Annual Mitigated	Emission Rate (Metric Tons/year)				
	Bio-CO2	NBio-CO2	Total CO2	CH4	CO2e
Access Road Construction 2018 - Offroad	0.00	11.96	11.96	0.0037	12.05
Access Road Construction 2018 - Mobile	0.00	0.81	0.81	0.0001	0.81
Grading/Fencing 2018 - Offroad	0.00	78.49	78.49	0.0244	79.10
Grading/Fencing 2018 - Mobile	0.00	6.45	6.45	0.0005	6.46
Racking Installation 2018 - Offroad	0.00	85.55	85.55	0.0226	86.12
Racking Installation 2018 - Mobile	0.00	17.02	17.02	0.0015	17.06
Solar Panel Installation 2015 - Offroad	0.00	74.87	74.87	0.0193	75.35
Solar Panel Installation 2015 - Mobile	0.00	17.02	17.02	0.0015	17.06
System Wiring and Trenching 2018 - Offroad	0.00	64.28	64.28	0.0143	64.64
System Wiring and Trenching 2018 - Mobile	0.00	3.70	3.70	0.0003	3.71
Inverter Installation 2018 - Offroad	0.00	30.50	30.50	0.0075	30.69
Inverter Installation 2018 - Mobile	0.00	2.98	2.98	0.0003	2.98
GenTie Power Line Construction 2018 - Offroad	0.00	14.17	14.17	0.0044	14.28
GenTie Power Line Construction 2018 - Mobile	0.00	1.69	1.69	0.0001	1.69
Substation/Switch Station Construc 2018 - Offroad	0.00	25.72	25.72	0.0080	25.92
Substation/Switch Station Construc 2018 - Mobile	0.00	2.05	2.05	0.0002	2.06
<b>Total</b>	<b>0.00</b>	<b>437.26</b>	<b>437.26</b>	<b>0.11</b>	<b>439.98</b>

### FF Construction Annual CO2e

Seville 4 Solar Project - FF Annual Construction and Associated Traffic					
Annual Unmitigated	Emission Rate (Metric Tons/year)				
	Bio-CO2	NBio-CO2	Total CO2	CH4	CO2e
Access Road Construction 2018 - Offroad	0.00	11.96	11.96	0.0037	12.05
Access Road Construction 2018 - Mobile	0.00	0.81	0.81	0.0001	0.81
Grading/Fencing 2018 - Offroad	0.00	78.49	78.49	0.0244	79.10
Grading/Fencing 2018 - Mobile	0.00	6.45	6.45	0.0005	6.46
Racking Installation 2018 - Offroad	0.00	85.55	85.55	0.0226	86.12
Racking Installation 2018 - Mobile	0.00	17.02	17.02	0.0015	17.06
Solar Panel Installation 2015 - Offroad	0.00	74.87	74.87	0.0193	75.35
Solar Panel Installation 2015 - Mobile	0.00	17.02	17.02	0.0015	17.06
System Wiring and Trenching 2018 - Offroad	0.00	64.28	64.28	0.0143	64.64
System Wiring and Trenching 2018 - Mobile	0.00	3.70	3.70	0.0003	3.71
Inverter Installation 2018 - Offroad	0.00	30.50	30.50	0.0075	30.69
Inverter Installation 2018 - Mobile	0.00	2.98	2.98	0.0003	2.98
GenTie Power Line Construction 2018 - Offroad	0.00	14.17	14.17	0.0044	14.28
GenTie Power Line Construction 2018 - Mobile	0.00	1.69	1.69	0.0001	1.69
Substation/Switch Station Construc 2018 - Offroad	0.00	25.72	25.72	0.0080	25.92
Substation/Switch Station Construc 2018 - Mobile	0.00	2.05	2.05	0.0002	2.06
<b>Total</b>	<b>0.00</b>	<b>437.26</b>	<b>437.26</b>	<b>0.11</b>	<b>439.98</b>
Annual Mitigated	Emission Rate (Metric Tons/year)				
	Bio-CO2	NBio-CO2	Total CO2	CH4	CO2e
Access Road Construction 2018 - Offroad	0.00	11.96	11.96	0.0037	12.05
Access Road Construction 2018 - Mobile	0.00	0.81	0.81	0.0001	0.81
Grading/Fencing 2018 - Offroad	0.00	78.49	78.49	0.0244	79.10
Grading/Fencing 2018 - Mobile	0.00	6.45	6.45	0.0005	6.46
Racking Installation 2018 - Offroad	0.00	85.55	85.55	0.0226	86.12
Racking Installation 2018 - Mobile	0.00	17.02	17.02	0.0015	17.06
Solar Panel Installation 2015 - Offroad	0.00	74.87	74.87	0.0193	75.35
Solar Panel Installation 2015 - Mobile	0.00	17.02	17.02	0.0015	17.06
System Wiring and Trenching 2018 - Offroad	0.00	64.28	64.28	0.0143	64.64
System Wiring and Trenching 2018 - Mobile	0.00	3.70	3.70	0.0003	3.71
Inverter Installation 2018 - Offroad	0.00	30.50	30.50	0.0075	30.69
Inverter Installation 2018 - Mobile	0.00	2.98	2.98	0.0003	2.98
GenTie Power Line Construction 2018 - Offroad	0.00	14.17	14.17	0.0044	14.28
GenTie Power Line Construction 2018 - Mobile	0.00	1.69	1.69	0.0001	1.69
Substation/Switch Station Construc 2018 - Offroad	0.00	25.72	25.72	0.0080	25.92
Substation/Switch Station Construc 2018 - Mobile	0.00	2.05	2.05	0.0002	2.06
<b>Total</b>	<b>0.00</b>	<b>437.26</b>	<b>437.26</b>	<b>0.11</b>	<b>439.98</b>



**Operations 2018 HSAT**

<b>Seville 4 Solar Project - Winter 2018 HSAT Operations/Maintenance and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.04	0.28	0.41	0.0009	26.06	0.00	26.06	2.601	0.0011	2.60
Operations Offroad	A	0.58	6.24	3.15	0.01		0.23	0.23		0.21	0.21
<b>Total</b>		<b>0.62</b>	<b>6.53</b>	<b>3.58</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>Seville 4 Solar Project - Summer 2018 Operations/Maintenance and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.05	0.28	0.51	0.0010	26.06	0.00	26.06	2.601	0.0010	2.60
Operations Offroad	A	0.58	6.24	3.15	0.01		0.23	0.23		0.21	0.21
<b>Total</b>		<b>0.63</b>	<b>6.52</b>	<b>3.68</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.04	0.28	0.41	0.0009	26.06	0.00	26.06	2.601	0.0011	2.60
Operations Offroad	A	0.58	6.24	3.15	0.01		0.23	0.23		0.21	0.21
<b>Total</b>		<b>0.62</b>	<b>6.53</b>	<b>3.58</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.05	0.28	0.51	0.0010	26.06	0.00	26.06	2.601	0.0010	2.60
Operations Offroad	A	0.58	6.24	3.15	0.01		0.23	0.23		0.21	0.21
<b>Total</b>		<b>0.63</b>	<b>6.52</b>	<b>3.68</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>

\* Source A - CalEEMod Model Results  
 Source B - Other Calculated Results

### Operations HSAT Annual CO2e

<b>Seville 4 Solar Project - 2018 HSAT Annual Operations and Associated Traffic</b>					
<b>Annual Unmitigated</b>	<b>Emission Rate (Metric Tons/year)</b>				
	<b>Bio-CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>CO2e</b>
Operations Offroad	0	117.61	117.61	0.04	118.52
Operations Energy	0	87.39	87.39	1.99E-03	87.56
Operations Area	0	0.00311	0.00311	0.00001	0.00332
Operations Water	0	20.87	20.87	4.80E-04	20.91
Operations Mobile	0	14.09	14.09	0.00	14.12
<b>Total</b>	<b>0.00</b>	<b>239.96</b>	<b>239.96</b>	<b>0.04</b>	<b>241.12</b>
<b>Annual Mitigated</b>	<b>Emission Rate (Metric Tons/year)</b>				
	<b>Bio-CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>CO2e</b>
Operations Offroad	0	117.61	117.61	0.04	118.52
Operations Energy	0	87.39	87.39	1.99E-03	87.56
Operations Area	0	0.00311	0.00311	0.00001	0.00332
Operations Water	0	20.87	20.87	4.80E-04	20.91
Operations Mobile	0	14.09	14.09	0.00	14.12
<b>Total</b>	<b>0.00</b>	<b>239.96</b>	<b>239.96</b>	<b>0.04</b>	<b>241.12</b>

**Operations 2018 FF**

<b>Seville 4 Solar Project - Winter 2018 Fixed-Frame Operations/Maintenance and Associated Traffic</b>											
<b>Winter Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.03	0.25	0.35	0.0009	25.51	0.00	25.51	2.546	0.0008	2.55
Operations Offroad	A	0.50	4.74	2.86	0.01		0.17	0.17		0.16	0.16
<b>Total</b>		<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>Winter Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.03	0.25	0.35	0.0009	25.51	0.00	25.51	2.546	0.0008	2.55
Operations Offroad	A	0.50	4.74	2.86	0.01		0.17	0.17		0.16	0.16
<b>Total</b>		<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>Seville 4 Solar Project - Summer 2018 Operations/Maintenance and Associated Traffic</b>											
<b>Summer Unmitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.03	0.25	0.35	0.0009	25.51	0.00	25.51	2.546	0.0008	2.55
Operations Offroad	A	0.50	4.74	2.86	0.01		0.17	0.17		0.16	0.16
<b>Total</b>		<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>Summer Mitigated</b>	<b>Source*</b>	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>PM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>PM2.5</b>
Operations Area	A	0.00	0.00	0.02	0.0000		0.00	0.00		0.0001	0.00
Operations Mobile	A	0.03	0.25	0.35	0.0009	25.51	0.00	25.51	2.546	0.0008	2.55
Operations Offroad	A	0.50	4.74	2.86	0.01		0.17	0.17		0.16	0.16
<b>Total</b>		<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>

\* Source A - CalEEMod Model Results  
 Source B - Other Calculated Results

### Operations Annual CO2e FF

<b>Seville 4 Solar Project - 2018 Fixed-Frame Annual Operations and Associated Traffic</b>					
<b>Annual Unmitigated</b>	<b>Emission Rate (Metric Tons/year)</b>				
	<b>Bio-CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>CO2e</b>
Operations Offroad	0	113.09	113.09	0.04	114.01
Operations Energy	0	73.32	73.32	1.67E-03	73.47
Operations Area	0	0.00261	0.00261	0.00001	0.00278
Operations Water	0	20.87	20.87	4.80E-04	20.91
Operations Mobile	0	13.43	13.43	1.08E-03	13.46
<b>Total</b>	<b>0.00</b>	<b>220.72</b>	<b>220.72</b>	<b>0.04</b>	<b>221.85</b>
<b>Annual Mitigated</b>	<b>Emission Rate (Metric Tons/year)</b>				
	<b>Bio-CO2</b>	<b>NBio-CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>CO2e</b>
Operations Offroad	0	113.09	113.09	0.04	114.01
Operations Energy	0	73.32	73.32	1.67E-03	73.47
Operations Area	0	0.00261	0.00261	0.00001	0.00278
Operations Water	0	20.87	20.87	4.80E-04	20.91
Operations Mobile	0	13.43	13.43	1.08E-03	13.46
<b>Total</b>	<b>0.00</b>	<b>220.72</b>	<b>220.72</b>	<b>0.04</b>	<b>221.85</b>

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ATTACHMENT E

TABLES PROVIDING UNMITIGATED AND MITIGATED DAILY AIR POLLUTION  
EMISSIONS SUMMED BY TIME PERIOD COMPARED TO APPLICABLE  
SIGNIFICANCE THRESHOLDS

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**Seville 4 Week 1-2**

<b>Access Road Construction (All-Weather)</b>										
<b>Week 1 - 2 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.57</b>	<b>17.66</b>	<b>8.16</b>	<b>0.02</b>	<b>29.09</b>	<b>0.67</b>	<b>29.75</b>	<b>2.93</b>	<b>0.61</b>	<b>3.54</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Week 1 - 2 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.59</b>	<b>17.65</b>	<b>8.33</b>	<b>0.02</b>	<b>29.09</b>	<b>0.67</b>	<b>29.75</b>	<b>2.93</b>	<b>0.61</b>	<b>3.54</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Week 1 - 2 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.57</b>	<b>17.66</b>	<b>8.16</b>	<b>0.02</b>	<b>28.60</b>	<b>0.67</b>	<b>29.27</b>	<b>2.88</b>	<b>0.61</b>	<b>3.49</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Week 1 - 2 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.59</b>	<b>17.65</b>	<b>8.33</b>	<b>0.02</b>	<b>28.60</b>	<b>0.67</b>	<b>29.27</b>	<b>2.88</b>	<b>0.61</b>	<b>3.49</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			



**Seville 4 Week 3-5 HSAT**

<b>HSAT Grading/Fencing</b>										
<b>Week 3 - 5 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>190.68</b>	<b>3.66</b>	<b>194.34</b>	<b>23.48</b>	<b>3.37</b>	<b>26.85</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>190.68</b>	<b>3.66</b>	<b>194.34</b>	<b>23.48</b>	<b>3.37</b>	<b>26.85</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>168.80</b>	<b>3.66</b>	<b>172.46</b>	<b>18.92</b>	<b>3.37</b>	<b>22.29</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>168.80</b>	<b>3.66</b>	<b>172.46</b>	<b>18.92</b>	<b>3.37</b>	<b>22.29</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

**Seville 4 Week 3-5 FF**

<b>Fixed Frame Grading/Fencing</b>										
<b>Week 3 - 5 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>185.74</b>	<b>3.66</b>	<b>189.39</b>	<b>22.95</b>	<b>3.37</b>	<b>26.31</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>185.74</b>	<b>3.66</b>	<b>189.39</b>	<b>22.95</b>	<b>3.37</b>	<b>26.31</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.15</b>	<b>87.90</b>	<b>52.11</b>	<b>0.10</b>	<b>166.57</b>	<b>3.66</b>	<b>170.23</b>	<b>18.68</b>	<b>3.37</b>	<b>22.05</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 3 - 5 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.32</b>	<b>87.85</b>	<b>53.61</b>	<b>0.10</b>	<b>166.57</b>	<b>3.66</b>	<b>170.23</b>	<b>18.68</b>	<b>3.37</b>	<b>22.05</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

**Seville 4 Week 6-10**

<b>Racking Installation</b>										
<b>Week 6 - 10 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>3.30</b>	<b>24.91</b>	<b>23.68</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 6 - 10 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>3.48</b>	<b>24.87</b>	<b>25.32</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 6 - 10 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>3.30</b>	<b>24.91</b>	<b>23.68</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Week 6 - 10 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>3.48</b>	<b>24.87</b>	<b>25.32</b>	<b>0.04</b>	<b>166.32</b>	<b>1.53</b>	<b>167.85</b>	<b>16.74</b>	<b>1.43</b>	<b>18.16</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

**Seville 4 Weeks 11-14**

<b>Racking Installation, Solar Panel Installation, GenTie Power Line Construction, &amp; Substation &amp; Switch Station Construction</b>										
<b>Weeks 11 - 14 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.45</b>	<b>70.19</b>	<b>59.40</b>	<b>0.10</b>	<b>353.63</b>	<b>3.96</b>	<b>357.59</b>	<b>35.60</b>	<b>3.68</b>	<b>39.28</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 11 - 14 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.87</b>	<b>70.11</b>	<b>63.14</b>	<b>0.10</b>	<b>353.63</b>	<b>3.96</b>	<b>357.59</b>	<b>35.60</b>	<b>3.68</b>	<b>39.28</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 11 - 14 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.45</b>	<b>70.18</b>	<b>59.40</b>	<b>0.10</b>	<b>353.63</b>	<b>3.96</b>	<b>357.59</b>	<b>35.60</b>	<b>3.68</b>	<b>39.28</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 11 - 14 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>8.87</b>	<b>70.10</b>	<b>63.14</b>	<b>0.10</b>	<b>353.63</b>	<b>3.96</b>	<b>357.58</b>	<b>35.60</b>	<b>3.68</b>	<b>39.28</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

Seville 4 Weeks 15

Racking Installation, Solar Panel Installation, Substation & Switch Station Construction, & System Wiring and Trenching										
Week 15 - 2018 - Unmitigated Winter										
Winter Unmitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	10.27	83.19	72.81	0.12	399.01	4.92	403.93	40.15	4.61	44.77
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				Yes			
Week 15 - 2018 - Unmitigated Summer										
Summer Unmitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	10.71	83.11	76.80	0.12	399.01	4.92	403.93	40.15	4.61	44.77
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				Yes			
Week 15 - 2018 - Mitigated Winter										
Winter Mitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	10.27	83.18	72.81	0.12	399.01	4.92	403.93	40.15	4.61	44.77
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				Yes			
Week 15 - 2018 - Mitigated Summer										
Summer Mitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	10.71	83.09	76.80	0.12	399.01	4.92	403.93	40.15	4.61	44.77
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				Yes			

**Seville 4 Weeks 16-18**

<b>Solar Panel Installation, Substation &amp; Switch Station Construction, &amp; System Wiring and Trenching</b>										
<b>Weeks 16 - 18 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>6.97</b>	<b>58.29</b>	<b>49.14</b>	<b>0.08</b>	<b>232.69</b>	<b>3.40</b>	<b>236.09</b>	<b>23.42</b>	<b>3.19</b>	<b>26.60</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 16 - 18 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.23</b>	<b>58.24</b>	<b>51.48</b>	<b>0.08</b>	<b>232.69</b>	<b>3.40</b>	<b>236.09</b>	<b>23.42</b>	<b>3.19</b>	<b>26.60</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 16 - 18 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>6.97</b>	<b>58.27</b>	<b>49.13</b>	<b>0.08</b>	<b>232.69</b>	<b>3.40</b>	<b>236.09</b>	<b>23.42</b>	<b>3.19</b>	<b>26.60</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 16 - 18 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.23</b>	<b>58.23</b>	<b>51.48</b>	<b>0.08</b>	<b>232.69</b>	<b>3.40</b>	<b>236.09</b>	<b>23.42</b>	<b>3.19</b>	<b>26.60</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

**Seville 4 Weeks 19-20**

<b>Solar Panel Installation, System Wiring and Trenching, &amp; Inverter Installation</b>										
<b>Weeks 19 - 20 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.64</b>	<b>62.83</b>	<b>53.94</b>	<b>0.09</b>	<b>276.92</b>	<b>3.60</b>	<b>280.52</b>	<b>27.86</b>	<b>3.40</b>	<b>31.25</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 19 - 20 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.92</b>	<b>62.69</b>	<b>56.51</b>	<b>0.10</b>	<b>276.92</b>	<b>3.60</b>	<b>280.52</b>	<b>27.86</b>	<b>3.40</b>	<b>31.25</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 19 - 20 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.63</b>	<b>62.79</b>	<b>53.94</b>	<b>0.09</b>	<b>276.92</b>	<b>3.60</b>	<b>280.52</b>	<b>27.86</b>	<b>3.40</b>	<b>31.25</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			
<b>Weeks 19 - 20 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>7.92</b>	<b>62.73</b>	<b>56.51</b>	<b>0.10</b>	<b>276.92</b>	<b>3.60</b>	<b>280.52</b>	<b>27.86</b>	<b>3.40</b>	<b>31.25</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>Yes</b>			

Seville 4 Weeks 21

System Wiring and Trenching & Inverter Installation										
Weeks 21 - 2018 - Unmitigated Winter										
Winter Unmitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	4.69	40.97	33.45	0.06	110.60	2.33	112.93	11.12	2.21	13.33
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				No			
Weeks 21 - 2018 - Unmitigated Summer										
Summer Unmitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	4.79	40.87	34.37	0.06	110.60	2.33	112.93	11.12	2.21	13.33
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				No			
Weeks 21 - 2018 - Mitigated Winter										
Winter Mitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	4.69	40.94	33.44	0.06	110.60	2.33	112.93	11.12	2.21	13.33
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				No			
Weeks 21 - 2018 - Mitigated Summer										
Summer Mitigated	Emission Rate (lbs/day)									
	ROG	NOx	CO	SO2	FUGPM10	EXHPM10	TOTPM10	FUGPM2.5	EXHPM2.5	TOTPM2.5
Total	4.79	40.91	34.38	0.06	110.60	2.33	112.93	11.12	2.21	13.33
ICAPCD Significance	75.00	100.00	550.00				150.00			
CEQA Significant?	No	No	No				No			



**Seville 4 Weeks 22-23**

<b>Inverter Installation</b>										
<b>Weeks 22 - 23 - 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.75</b>	<b>15.42</b>	<b>12.87</b>	<b>0.02</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Weeks 22 - 23 - 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.80</b>	<b>15.32</b>	<b>13.32</b>	<b>0.02</b>	<b>50.17</b>	<b>0.80</b>	<b>50.97</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Weeks 22 - 23 - 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.75</b>	<b>15.40</b>	<b>12.86</b>	<b>0.02</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			
<b>Weeks 22 - 23 - 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>1.80</b>	<b>15.38</b>	<b>13.33</b>	<b>0.03</b>	<b>50.18</b>	<b>0.80</b>	<b>50.98</b>	<b>5.05</b>	<b>0.76</b>	<b>5.81</b>
<b>ICAPCD Significance</b>	<b>75.00</b>	<b>100.00</b>	<b>550.00</b>				<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>				<b>No</b>			

**Operations 2018 HSAT Week 24**

<b>HSAT Operations</b>										
<b>Operations 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.62</b>	<b>6.53</b>	<b>3.58</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.63</b>	<b>6.52</b>	<b>3.68</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.62</b>	<b>6.53</b>	<b>3.58</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.63</b>	<b>6.52</b>	<b>3.68</b>	<b>0.01</b>	<b>26.06</b>	<b>0.23</b>	<b>26.29</b>	<b>2.60</b>	<b>0.21</b>	<b>2.81</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			

**Operations 2018 FF Week 24**

<b>Fixed Frame Operations</b>										
<b>Operations 2018 - Unmitigated Winter</b>										
<b>Winter Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Unmitigated Summer</b>										
<b>Summer Unmitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Mitigated Winter</b>										
<b>Winter Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			
<b>Operations 2018 - Mitigated Summer</b>										
<b>Summer Mitigated</b>	<b>Emission Rate (lbs/day)</b>									
	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>FUGPM10</b>	<b>EXHPM10</b>	<b>TOTPM10</b>	<b>FUGPM2.5</b>	<b>EXHPM2.5</b>	<b>TOTPM2.5</b>
<b>Total</b>	<b>0.53</b>	<b>4.99</b>	<b>3.22</b>	<b>0.01</b>	<b>25.51</b>	<b>0.17</b>	<b>25.69</b>	<b>2.55</b>	<b>0.16</b>	<b>2.71</b>
<b>ICAPCD Significance</b>	<b>55.00</b>	<b>55.00</b>	<b>550.00</b>	<b>150.00</b>			<b>150.00</b>			
<b>CEQA Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>			<b>No</b>			