Appendix 5.1F
Construction Emissions and Impact Analysis

APPENDIX 5.1F

Construction Emissions and Impact Analysis

Construction of the Project is expected to last approximately 29 months. Construction activities will include the following activities:

- Site road work;
- Solar field clearing, grubbing, and grading;
- Construction of switchyard, onsite electrical transmission lines, gas metering area and onsite gas supply pipelines;
- Power block erection;
- Tower and boiler erection;
- Solar field assembly and installation;
- ACC erection;
- Gas line construction (Clark County, Nevada);
- Transmission facilities (Clark and Nye Counties, Nevada); and
- Miscellaneous activities.

Construction Activities

The construction of the project will begin with site preparation activities, which include establishing internal site roadways; clearing, grubbing, and grading of all site areas; and installing drainage systems, underground utilities and conduits. After site preparation is finished, the construction and installation of the heliostats is expected to begin. Concurrent with installation of the solar fields, installation and assembly of the mechanical equipment, electrical equipment, and site buildings will take place. Concurrent with these activities, the linear facilities (natural gas line and transmission facilities) will be constructed in Clark and Nye Counties, Nevada.[1] Double-shift work schedules will be utilized during solar field assembly and installation activities, and a single-shift, 8-to 10-hour workday will be utilized for the remainder of the on-site construction activities.

Fugitive dust emissions from the construction of the project will result from the following:

- Dust entrained during site preparation and grading/excavation at the construction site;
- Dust entrained during onsite travel of construction vehicles on unpaved surfaces;
- Fugitive dust emitted from an onsite concrete batch plant; and
- Wind erosion of areas disturbed during construction activities.

Combustion emissions during construction will result from the following:

- Exhaust from the diesel construction equipment used for site preparation, grading, excavation, trenching, and construction of onsite and offsite (transmission and gas pipeline-related) structures;
- Exhaust from water trucks used to control construction dust emissions;
- Exhaust from portable welding machines, small generators, and compressors;

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[1] Valley Electric Association (VEA) is a member-owned electric cooperative that serves portions of southern Nevada. VEA will own and operate the new HHSEGS transmission line as part of their transmission system. The gas pipeline will also be owned and operated by others.

- Exhaust from pickup trucks and diesel trucks used to transport workers and materials around the construction areas;
- Exhaust from diesel trucks used to deliver concrete, fuel, and construction supplies to the construction areas; and
- Exhaust from automobiles used by workers to commute to the construction areas.

To determine the potential worst-case daily construction impacts, exhaust and dust emission rates have been evaluated for each source of emissions. Maximum short-term impacts are calculated based on the equipment mix expected during the peak months of the construction schedule.[2] Annual emissions are based on the equipment mix operating during the peak 12-month construction period.

Linear Facilities

The linear facilities that will be constructed for the proposed project include a new natural gas pipeline and transmission lines. There are currently two distinct transmission options being considered because of a unique situation concerning Valley Electric Association (VEA). Under the first option, the project would interconnect via a 230 kV transmission line to a new VEA-owned substation (Tap Substation) at the intersection of Tecopa Road and Nevada State Route 160 (the Tecopa/SR-160 Option).The other option is a 500 kV transmission line that interconnects to the electric grid at the Eldorado substation (the Eldorado Option), in Boulder City, Nevada. The utility corridor for these project features will be located in Clark and Nye counties, Nevada, and will enter the project site at Common Area in the southeast corner of the site. These linear facilities will be constructed concurrently with the construction of the project.

Available Mitigation Measures

The following typical mitigation measures are proposed to control exhaust emissions from the diesel heavy equipment and potential emissions of fugitive dust during onsite construction of the project in California. These measures are consistent with those required under GBUAPCD Rule 401 (Fugitive Dust).[3] Mitigation measures for construction of the linear facilities located on BLM land in the State of Nevada will be subject to approval and enforcement by BLM. Mitigation measures for transmission line construction on privately-owned land in Clark County, NV, will be subject to approval and enforcement by the Clark County Department of Air Quality and Environmental Management.

- Unpaved roads and disturbed areas in the construction areas will be watered as frequently as necessary to prevent fugitive dust plumes. The frequency of watering can be reduced or eliminated during periods of precipitation.
- The vehicle speed limit will be 15 miles per hour within the construction areas.
- The construction area entrances shall be posted with visible speed limit signs.
- Construction equipment vehicle tires will be inspected and washed as necessary to be cleaned free of dirt prior to entering paved roadways.
- Gravel ramps of at least 20 feet in length will be provided at the tire washing/cleaning station.

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[2] See calculations in Attachment 5.1F-1.

[3] See Section 5.1.2.3.

- Unpaved exits from the construction areas will be graveled or treated to prevent track-out to public roadways.
- Construction vehicles will enter the construction areas through the treated entrance roadways, unless an alternative route has been submitted to and approved by the Compliance Project Manager.
- Construction areas adjacent to any paved roadway will be provided with sandbags or other measures as specified in the Storm Water Pollution Prevention Plan (SWPPP) to prevent run-off to roadways.
- Paved roads within the construction areas will be swept at least twice daily (or less during periods of precipitation) on days when construction activity occurs to prevent the accumulation of dirt and debris.
- At least the first 500 feet of any public roadway exiting from the construction areas shall be swept at least twice daily (or less during periods of precipitation) on days when construction activity occurs or on any other day when dirt or runoff from the construction site is visible on public roadways.
- Soil storage piles and disturbed areas that remain inactive for longer than 10 days will be covered or treated with appropriate dust suppressant compounds.
- Vehicles used to transport solid bulk material on public roadways and having the potential to cause visible emissions will be provided with a cover, or the materials will be sufficiently wetted and loaded onto the trucks in a manner to provide at least one foot of freeboard.
- Wind erosion control techniques (such as windbreaks, water, chemical dust suppressants, and/or vegetation) will be used on all construction areas that may be disturbed. Any windbreaks installed to comply with this condition shall remain in place until the soil is stabilized or permanently covered with vegetation.

An on-site Air Quality Construction Mitigation Manager will be responsible for directing and documenting compliance with construction-related mitigation conditions for onsite construction.

Estimates of Emissions with Mitigation Measures—Onsite Construction

Tables 5.1F-1 and 5.1F-2 show the estimated maximum daily and annual heavy equipment exhaust and fugitive dust emissions with recommended mitigation measures for onsite construction activities. Detailed emission calculations are included as Attachment 5.1F-1.

TABLE 5.1F-1
Maximum Daily Emissions During Project Construction (Inyo Co., CA), Pounds Per Day, Month 8 (Combustion), Months 8 and 9 (Fugitive Dust)

	NOx	CO	VOC	SOx	PM_{10}	$PM_{2.5}$
Onsite						
Construction Equipment	349.8	181.2	25.9	0.5	15.2	15.2
Fugitive Dust	—	—	—	—	104.9	12.0
Concrete Batch Plant	—	—	—	—	70.8	10.6
Offsite						
Worker Travel, Truck Deliveries*	1,357.8	2,778.0	345.9	1.5	55.4	42.9
Total Emissions	**1,708**	**2,959**	**392**	**2.2**	**246**	**81**

*Offsite emissions.

TABLE 5.1F-2
Peak Annual Emissions During Project Construction (Inyo Co., CA), Tons Per Year

	NOx	CO	VOC	SOx	PM_{10}	$PM_{2.5}$
Onsite						
Construction Equipment	31.2	16.6	2.3	0.1	1.3	1.3
Fugitive Dust	—	—	—	—	8.8	1.0
Concrete Batch Plant	—	—	—	—	2.6	0.4
Offsite						
Worker Travel, Truck Deliveries*	30.9	302.3	32.3	0.01	1.5	1.0
Total Emissions	**62.2**	**319**	**34.5**	**0.1**	**14.1**	**3.7**

*Offsite emissions.

Estimates of Greenhouse Gas Emissions During Construction

GHG emissions during project construction have also been calculated. These calculations, which are provided in Attachment 5.1F-1, include global warming potentials and emission factors for CO_2, CH_4, and N_2O based on USEPA's Mandatory Reporting of Greenhouse Gases Rule. GHG emissions during construction are summarized in Table 5.1F-3.

TABLE 5.1F-3
Peak Annual GHG Emissions During Construction of the Linear Facilities, Metric Tons of CO_2e

Construction Project Element	CO_2 Equivalent (MT)
Onsite Construction	10,089

Analysis of Ambient Impacts from Onsite Construction

Ambient air quality impacts from emissions during construction of the project were estimated using an air quality dispersion modeling analysis. The modeling analysis considers the construction site location, the surrounding topography, and the sources of emissions during construction, including vehicle and equipment exhaust emissions and fugitive dust.

Existing Ambient Levels

As with the modeling analysis of project operating impacts (Section 5.1.4.5.7), ambient monitoring data collected from monitoring stations in the project area were used to establish the ambient background levels for the construction impact modeling analysis. Table 5.1F-4 shows the maximum concentrations of NOx, SO_2, CO, PM_{10} and $PM_{2.5}$ recorded for 2008 through 2010, and the location where the data were collected.

TABLE 5.1F-4
Highest Reported Background Concentrations in the Project Area ($\mu g/m^3$)

Pollutant	Averaging Time	2008	2009	2010
Trona (San Bernardino County)				
NO_2	1 hour (1st high)	117	92.1	97.8
	1 hour (98th percentile)[b]	80.8	73.3	79.0
	Annual	7.5	7.5	--[a]
SO_2	1 hour	93.6	28.6	31.2
	3 hours	15.6	20.8	23.4
	24 hours	13.1	7.9	10.5
	Annual	2.7	2.7	--[a]
Barstow (San Bernardino County)				
CO	1 hour	1,750	1,125	1,125
	8 hours (CA. 1st high)	1,333	1,000	--[a]
Jean, NV				
PM_{10}	24 hours	96	81.3	49
	Annual (CA)	14	12.4	8.5
$PM_{2.5}$	24 hours (3-yr avg, 98th Percentile)[b,c]	10.3	11.2	11.4
	Nat'l 3-Year Avg AAM [d]	4.9	4.0	3.5

Notes:
[a] Insufficient data.

TABLE 5.1F-4
Highest Reported Background Concentrations in the Project Area ($\mu g/m^3$)

[b] Calculated from http://www.epa.gov/mxplorer/index.htm, "Query Concentrations" function
[c] See Table 5 of the modeling protocol in Appendix 5.1H.
[d] Annual arithmetic mean

Dispersion Model

The EPA guideline AERMOD modeling system was used to estimate ambient impacts from construction activities.

The emission sources for the construction site were grouped into three categories: exhaust emissions, construction dust emissions, and windblown dust emissions. The exhaust and construction dust emissions were modeled as 26 volume sources with a vertical dimension of 6 meters. Among the 26 volume sources, 24 were totally within the boundary of the facility site, to represent the construction dust and combustion exhaust sources from the facility site, and 2 volume sources fell into both the laydown area and the facility site, to represent both the construction dust and combustion exhaust sources from the laydown area, and partially from the facility site. Based on the width of the construction area, the horizontal dimension for each volume source was set to 563.8 meters, with sigma-y = 131.1. The fugitive dust emissions from disturbed areas were represented for modeling purposes as area sources. To assess impacts from fugitive dust, the facility site and the laydown area were modeled as one single area source covering a combined disturbed area of 2959.2 acres. The effective plume height for these two area sources was set at 0.5 meters in the modeling analysis.

The construction impacts modeling analysis receptor set excluded the areas under the applicant's control, including the HHSEGS property and the laydown and parking areas that will be fenced and used for equipment and workers' vehicles during the construction period.

To determine the construction impacts on short-term ambient standards (24 hours and less), the worst-case daily onsite construction emission levels shown in Table 5.1F-1 were used. For pollutants with annual average ambient standards, the annual onsite emission levels shown in Table 5.1F-2 were used.

As with the refined modeling discussed in Section 5.1, the construction impact modeling was performed using the five-year Pahrump, NV, monitoring station meteorological data set.

Modeling Results

Based on the emission rates of NOx, SO_2, CO, PM_{10} and $PM_{2.5}$ and the meteorological data, the AERMOD model calculates hourly and annual ambient impacts for each pollutant. As mentioned above, the modeled 1-hour, 3-hour, 8-hour, and 24-hour ambient impacts are based on the worst-case daily emission rates of NOx, SO_2, CO, PM_{10} and $PM_{2.5}$. The annual impacts are based on the annual emission rates of these pollutants.

The 1-hour and annual average concentrations of NO_2 were computed in accordance with the procedures described in the modeling protocol (Appendix 5.1H).

The modeling analysis results are shown in Table 5.1F-5. Also included in the table are the maximum background levels that have occurred in the last three years and the resulting total ambient impacts. Construction impacts alone for all modeled pollutants are expected to be below the most stringent state and national standards. With the exception of the 24-hour and annual average PM_{10} standards, construction activities are not expected to cause an exceedance of state or federal ambient air quality standards. However, the background state 24-hour standard is exceeded in the absence of the construction emissions for the project.

The dust mitigation measures already proposed by the applicant are expected to be effective in minimizing fugitive dust emissions.

TABLE 5.1F-5
Modeled Maximum Impacts from Onsite Construction Activities

Pollutant	Averaging Period	Maximum Predicted Impact ($\mu g/m^3$)	Maximum Background Concentration ($\mu g/m^3$)	Total Concentration[a] ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	CAAQS ($\mu g/m^3$)
NO_2	1-hr (highest)	100.1	117	217	--	339
	1-hr (98th percntl)	85.8	80.8	167	188	--
	Annual	3.4	7.5	11	100	57
SO_2	1-hr	0.2	93.6	94	196	655
	3-hr	0.2	23.4	24	1300	--
	24-hr	0.05	13.1	13	--	105
	Annual	0.01	2.7	2.7	80	--
CO	1-hr	62.9	1,750	1,813	40,000	23,000
	8-hr	26.7	1,333	1,360	10,000	20.000
PM_{10}	24-hr	24.2	96	120	150	50
	Annual	1.4	14	15	--	20
$PM_{2.5}$	24-hr[b]	5.1	11.4	17	35	--
	Annual[c]	0.3	4.9	5.2	15.0	12

Notes:

[a] Total concentrations shown in this table are the sum of the maximum predicted impact and the maximum measured background concentration. Because the maximum impact will not occur at the same time as the maximum background concentration, the actual maximum combined impact will be lower.

[b] Background concentration shown is the three-year average of the 98th percentile values, in accordance with the form of the federal standard. Table 5.1F-8, footnote c.

[c] Background value shown is the three-year average of the annual arithmetic mean, in accordance with the form of the standard.

Maximum PM_{10} and $PM_{2.5}$ impacts occur on the project site fenceline, and concentrations decrease rapidly within a couple of hundred meters or less of the project site. PM_{10} and $PM_{2.5}$ impacts are extremely localized.

The project construction site impacts are not unusual in comparison to most construction project analyses. Construction sites that use good dust suppression techniques and low-emitting vehicles typically do not cause exceedances of air quality standards. The input and output modeling files are being provided electronically.

Health Risk of Diesel Exhaust

The combustion portion of annual PM_{10} emissions from Table 5.1F-2 above was modeled separately to determine the annual average Diesel PM_{10} exhaust concentration. This was used with HARP-derived risk values for Diesel particulate matter for a nine-year exposure to determine the potential carcinogenic risk from Diesel exhaust during construction.[4]

The maximum modeled annual average concentration of Diesel particulate matter at any location is 0.139 $\mu g/m^3$. The cancer unit risk value obtained from HARP for a 9-year exposure is 5.33×10^{-5} per $\mu g/m^3$ (derived adjusted method). Therefore, the carcinogenic risk due to exposure to Diesel exhaust during construction activities is expected to be approximately 7.4 in one million. This risk estimate is below the significance level of 10 in one million. This analysis remains conservative because of the inherently conservative assumptions made in the modeling analysis.

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[4] OEHHA, "Adoption of Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments," 10/03/03, accessed at http://www.oehha.ca.gov/air/hot_spots/HRAguidefinal.html

Attachment 5.1F-1

Detailed Construction Emissions Calculations

Hidden Hills Summary of Construction Emissions

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA
Daily and Annual Construction Emissions

Daily Construction Emissions (during peak month)						
(lbs/day)						
	NOx	CO	VOC	SOx	PM2.5	PM10
Onsite						
Construction Equipment	349.84	181.25	25.89	0.65	15.20	15.20
Fugitive Dust					11.97	104.94
Batch Plant					10.62	70.80
Subtotal =	349.84	181.25	25.89	0.65	37.79	190.95
Offsite						
Worker Travel	159.39	2223.94	234.22	0.00	5.10	8.15
Truck Deliveries	1198.41	554.11	111.68	1.52	37.80	47.25
Subtotal =	1357.81	2778.04	345.90	1.52	42.90	55.40
Total =	1707.65	2959.30	371.79	2.16	80.69	246.35

Annual Construction Emissions (during peak 12-month period) (tons/yr)						
	NOx	CO	VOC	SOx	PM2.5	PM10
Onsite						
Construction Equipment	31.24	16.55	2.31	0.06	1.28	1.28
Fugitive Dust					1.04	8.79
Batch Plant					0.38	2.55
Subtotal =	31.24	16.55	2.31	0.06	2.70	12.62
Offsite						
Worker Travel	21.35	297.82	31.37	0.00	0.68	1.09
Truck Deliveries	9.59	4.43	0.89	0.01	0.30	0.38
Subtotal =	30.93	302.26	32.26	0.01	0.99	1.47
Total =	62.17	318.80	34.57	0.07	3.69	14.09

Hidden Hills Greenhouse Gas Emission Calculations: Construction Period

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Construction Equipment GHG Emissions

Diesel Fuel Used (gallons/ year)	Diesel HHV (MMBtu/ gallon)	CO_2 Emission Factor[a] (kg/gallon)	CH_4 Emission Factor[b] (kg/MMBtu)	N_2O Emission Factor[b] (kg/MMBtu)	Global Warming Potential Factor[c] for CO_2	Global Warming Potential Factor[c] for CH_4	Global Warming Potential Factor[c] for N_2O	Warming Potential CO_2 Emissions as CO_2e (MT/year)	Warming Potential CH_4 Emissions as CO_2e (MT/year)	Warming Potential N_2O Emissions as CO_2e (MT/year)	Total (MT/year)
434,072	0.137	9.96	0.003	0.0006	1	21	310	4,323	4	11	4,338

Notes:
a. CARB Regulation for the Mandatory reporting of Greenhouse Gas Emissions, December 2, 2008, Appendix A, Table 7
b. CARB Regulation for the Mandatory reporting of Greenhouse Gas Emissions, December 2, 2008, Appendix A, Table 6
c. CARB Regulation for the Mandatory reporting of Greenhouse Gas Emissions, December 2, 2008, Appendix A, Table 6

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Construction Worker and Deliveries GHG Emissions

Vehicle	Annual Vehicle Trips	Average Round Trip Haul Distance (miles)	Vehicle Miles Traveled Per Year	GHG Emission Factors (lbs/mile) CO2[a]	CH4[b]	N2O[b]	Global Warming Potential Factor[c] for CO2	Global Warming Potential Factor[c] for CH4	Global Warming Potential Factor[c] for N2O	Global Warming Potential CO2 Emiss. as CO2e (lbs/year)	Global Warming Potential CH4 Emiss. as CO2e (lbs/year)	Global Warming Potential N2O Emiss. as CO2e (lbs/year)	Total CO2e (lbs/year)	Total CO2e (MT/year)
Truck	6,151	100.00	615,100	4.1	1.12E-05	1.06E-05	1	21	310	2,542,872	145	2,016	2,545,033	1,154
Worker	255,922	100	25,592,160	0.9	3.92E-05	6.01E-05	1	21	310	23,568,801	21,071	477,063	24,066,935	10,917
Total										26,111,672	21,216	479,079	26,611,967	12,071

Notes:
a. Emfac2007 V2.3, Stanislaus County, all HHD Diesel and light duty gasoline vehicle models in the range from1966 to 201
b. CARB Final Emission Factors for Mandatory Reporting Program, December 2, 2008, emission factors onroad vehicles, heavy Diesel trucks and gasoline light duty vehicles (2000 average model year
c. CARB Final Emission Factors for Mandatory Reporting Program, December 2, 2008, global warming potential table

Hidden Hills Modeled Construction Emissions

Short Term Impacts (24 hours and less)	NOx	CO	SOx	PM2.5	PM10
TOTAL					
Combustion (lbs/day)	3.498E+02	1.813E+02	6.466E-01	1.520E+01	1.520E+01
Combustion (hrs/day)	2.100E+01	2.100E+01	2.100E+01	2.100E+01	2.100E+01
Combustion (lbs/hr)	1.666E+01	8.631E+00	3.079E-02	7.239E-01	7.239E-01
Combustion (g/sec)	2.099E+00	1.088E+00	3.880E-03	9.121E-02	9.121E-02
No. of volume sources	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01
Each volume source (g/s)	8.073E-02	4.183E-02	1.492E-04	3.508E-03	3.508E-03
Construction Dust (lbs/day)				1.169E+01	1.042E+02
Construction Dust (hrs/day)				2.100E+01	2.100E+01
Construction Dust (lbs/hr)				5.568E-01	4.964E+00
Construction Dust (g/sec)				7.016E-02	6.255E-01
No. of volume sources				2.600E+01	2.600E+01
Each volume source (g/s)				2.698E-03	2.406E-02
Windblown Dust (lbs/day)				2.776E-01	6.941E-01
Windblown Dust (hrs/day)				2.400E+01	2.400E+01
Windblown Dust (lbs/hr)				4.425E-01	2.950E+00
Windblown Dust (g/sec)				5.576E-02	3.717E-01
Windblown Dust (g/sec.m2)				4.656E-09	3.104E-08
Batch Plant (lb/day)				1.062E+01	7.080E+01
Batch Plant (hrs/day)				2.100E+01	2.100E+01
Batch Plant (lbs/hr)				5.057E-01	3.372E+00
Batch Plant (g/sec)				6.372E-02	4.248E-01
No. of volume sources				2.600E+01	2.600E+01
Each volume source (g/s)				2.451E-03	1.634E-02
Size of area source to use				1.198E+07	m2
Construction Shift				2.880E+02	days/year

Long Term Impacts (annual)	NOx	CO	SOx	PM2.5	PM10
TOTAL					
Combustion (tons/yr)	3.124E+01	1.655E+01	5.579E-02	1.280E+00	1.280E+00
Combustion (days/yr)	2.880E+02	2.880E+02	2.880E+02	2.880E+02	2.880E+02
Combustion (hrs/day)	2.100E+01	2.100E+01	2.100E+01	2.100E+01	2.100E+01
Combustion (lbs/hr)	1.033E+01	5.472E+00	1.845E-02	4.233E-01	4.233E-01
Combustion (g/sec)	1.301E+00	6.894E-01	2.324E-03	5.334E-02	5.334E-02
No. of volume sources	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01
Each volume source (g/s)	5.006E-02	2.652E-02	8.940E-05	2.052E-03	2.052E-03
Construction Dust (tons/yr)				9.989E-01	8.692E+00
Construction Dust (days/yr)				2.880E+02	2.880E+02
Construction Dust (hrs/day)				2.100E+01	2.100E+01
Construction Dust (lbs/hr)				3.303E-01	2.874E+00
Construction Dust (g/sec)				4.162E-02	3.621E-01
No. of volume sources				2.600E+01	2.600E+01
Each volume source (g/s)				1.601E-03	1.393E-02
Windblown Dust (tons/yr)				3.998E-02	9.995E-02
Windblown Dust (days/yr)				3.650E+02	3.650E+02
Windblown Dust (hrs/day)				2.400E+01	2.400E+01
Windblown Dust (lbs/hr)				9.128E-03	2.282E-02
Windblown Dust (g/sec)				1.150E-03	2.875E-03
Windblown Dust (g/sec.m2)				9.604E-11	2.401E-10
Batch Plant (tons/yr)				3.823E-01	2.549E+00
Batch Plant (days/yr)				2.880E+02	2.880E+02
Batch Plant (hrs/day)				2.100E+01	2.100E+01
Batch Plant (lbs/hr)				1.264E-01	8.429E-01
Batch Plant (g/sec)				1.593E-02	1.062E-01
No. of volume sources				2.600E+01	2.600E+01
Each volume source (g/s)				6.127E-04	4.085E-03

Hidden Hills Construction Worker and Deliveries Schedule

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Year	2013											2014												2015									
Calendar Month	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Peak	
Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	for Annual	Total
Construction Workers																																	
Craft-day shift	0	0	44	88	139	556	625	690	725	746	756	756	786	806	795	812	853	840	785	778	724	665	633	269	225	181	131	88	44	30	20		
Non-Craft-day shift	0	0	15	19	25	24	32	32	32	32	33	35	35	35	38	38	38	38	38	38	37	36	35	37	36	33	30	27	20	8	5		
Craft-swing shift	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	0	0	0	0	0	0	0	0		
Non-Craft-swing shift	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0		
Compliance Support	0	0	80	80	30	30	30	30	30	30	30	30	30	30	80	80	30	30	20	20	10	10	10	5	5	5	5	5	5	5	5		
Owners/Others	0	0	15	25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	35	30	25	15	10	5		
Deliveries																																	
Equipment and Materials	0	0	35	440	420	407	472	438	411	112	120	148	141	137	165	171	135	127	122	98	94	91	65	55	43	36	28	28	10	0	0		
Concrete	0	0	20	40	0	0	0	0	0	0	0	0	0	0	0	0	20	10	10	10	10	5	5	0	0	0	0	0	0	0	0		
Heliostat Componants	0	0	0	0	245	245	245	245	245	245	246	246	246	246	246	246	245	245	245	245	245	245		0	0	0	0	0	0	0	0		
Total Construction Workers	0	0	154	212	234	713	790	855	890	911	922	924	954	974	1016	1033	1024	1011	946	939	874	814	781	351	306	254	196	145	84	53	35	961	18395
Average Construction Workers																															634	Rolling Average	
Total Deliveries	0	0	55	480	665	652	717	683	656	357	366	394	387	383	411	417	400	382	377	353	349	341	70	55	43	36	28	28	10	0	0	6,151	9095
Average Deliveries																															314	No. Rolling Total	

Natural Gas Pipeline--Clark Co., NV

Year	2013											2014												2015									
Calendar Month	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Peak	
Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	for Annual	**Total**
Construction Workers	0	0	0	0	0	0	0	0	0	0	0	0	2	2	21	21	21	21	21	30	0	0	0	0	0	0	0	0	0	0	0		
Compliance															3	3	3	3	3	3	2	2	2	2	0	1							
Total Gas Pipeline Construction Workers	0	0	0	0	0	0	0	0	0	0	0	0	2	2	24	24	24	24	24	33	2	2	2	2	0	1	0	0	0	0	0	14	166
Average Construction Workers																															6	Rolling Average	

Transmission Lines--Clark and Nye Cos., NV

Year	2013											2014												2015									
Calendar Month	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Peak	
Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	for Annual	**Total**
Construction Workers	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	15	36	39	37	37	29	10	10	6	0	5	0	0	0	0	0		
Compliance															3	3	3	3	3	3	2	2	2	2	0	1							
Total Gas Pipeline Construction Workers	0	0	0	0	0	0	0	0	0	0	0	0	3	3	6	18	39	42	40	40	31	12	12	8	0	6	0	0	0	0	0	21	260
Average Construction Workers																															9	Rolling Average	

Hidden Hills On-Road Emission Factors and EMFAC Output

Onroad Emission Factors

	Emission Factors (1)						
	NOx	CO	VOC	SOx	PM10	PM2.5	CO2
Truck Hauling (lbs/vmt)	3.12E-02	1.44E-02	2.91E-03	3.95E-05	1.23E-03	9.83E-04	4.13E+00
Truck Idling (lb/idle-hour) (2)					3.37E-04		
Light Duty Trucks/Cars (lbs/vmt)(1)	1.67E-03	2.33E-02	2.45E-03	0.00E+00	8.53E-05	5.34E-05	9.21E-01

Notes:
(1) Emission factors for delivery trucks from EMFAC2007 V2.3, Great Valley Air Basin Average, model years 1969 to 2013. To avoid roundoff error due to small totals, the statewide inventory was used for SOx and PM2.5.
(2) Based on 2013 statewide HHD Diesel truck idling of 0.58 tons PM/day, 241,840 HHD Diesel trucks, and 101.2 minutes/truck of idling per day, From EMFAC2007 v. 2.3.

Title : Hidden Hills Onroad - GVB
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2011/06/13 05:37:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Great Basin Valleys Air Basin Avera
I/M Stat : COO Basic (2005) -- Using I/M schedule for area 1 Alpine (GBV)
Emissions: Tons Per Day
****

	LDA-NCAT	LDA-CAT	LDA-DSL	LDA-TOT	LDT1-NCAT	LDT1-CAT	LDT1-DSL	LDT1-TOT	LDT2-NCAT	LDT2-CAT	LDT2-DSL	LDT2-TOT	MDV-NCAT	MDV-CAT	MDV-DSL	MDV-TOT	LHDT1-NCA	LHDT1-CAT	LHDT1-DSL	LHDT1-TOT	LHDT2-NCA	LHDT2-CAT	LHDT2-DSL	LHDT2-TOT	MHDT-NCAT	MHDT-CAT	MHDT-DSL	MHDT-TOT	HHDT-NCAT	HHDT-CAT	HHDT-DSL	HHDT-TOT	OBUS-NCA	OBUS-CAT	OBUS-DSL	OBUS-TOT	SBUS-NCAT	SBUS-CAT	SBUS-DSL	SBUS-TOT	UB-NCAT	UB-CAT	UB-DSL	UB-TOT	MH-NCAT	MH-CAT	MH-DSL	MH-TOT	MCY-NCAT	MCY-CAT	MCY-DSL	MCY-TOT	ALL-TOT
Vehicles	122	11043	75	11239	360	11376	793	12528	86	8999	68	9154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	1191	1223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34145
VMT/1000	2	403	2	406	7	378	24	409	2	333	2	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	177	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1331
Trips	473	68642	424	69539	1425	68264	4781	74470	342	56104	406	56852	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	571	923	6025	7519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208380
Total Organic Gas Emissions																																																						
Run Exh	0.01	0.05	0	0.06	0.05	0.11	0	0.17	0.01	0.05	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
Start Ex	0	0.05	0	0.06	0.01	0.09	0	0.11	0	0.05	0	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25
Total Ex	0.02	0.1	0	0.12	0.07	0.21	0	0.28	0.02	0.11	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0.23	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.78
Diurnal	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
Hot Soak	0	0.02	0	0.02	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
Running	0.01	0.04	0	0.05	0.01	0.14	0	0.16	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.29
Resting	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
Total	0.03	0.17	0	0.2	0.09	0.4	0	0.49	0.02	0.2	0	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0.23	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.17
Carbon Monoxide Emissions																																																						
Run Exh	0.17	1.02	0	1.19	0.71	2.73	0.01	3.45	0.17	1.25	0	1.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.07	0.7	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.93
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11
Start Ex	0.02	0.64	0	0.66	0.05	1.24	0	1.29	0.01	0.67	0	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17	0.13	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.93
Total Ex	0.18	1.66	0	1.84	0.76	3.97	0.01	4.74	0.18	1.92	0	2.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.27	0.2	0.81	1.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.98
Oxides of Nitrogen Emissions																																																						
Run Exh	0.01	0.13	0	0.15	0.04	0.34	0.04	0.42	0.01	0.23	0	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	2.5	2.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.34
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25
Start Ex	0	0.04	0	0.04	0	0.05	0	0.06	0	0.05	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16
Total Ex	0.01	0.17	0	0.18	0.04	0.39	0.04	0.48	0.01	0.29	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.03	2.75	2.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.75
Carbon Dioxide Emissions (000)																																																						
Run Exh	0	0.16	0	0.16	0	0.18	0.01	0.2	0	0.16	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.88
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
Start Ex	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Total Ex	0	0.16	0	0.16	0	0.19	0.01	0.2	0	0.17	0	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.91
PM10 Emissions																																																						
Run Exh	0	0	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12
TireWear	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
BrakeWr	0	0.01	0	0.01	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Total	0	0.01	0	0.01	0	0.02	0	0.02	0	0.02	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
Fuel Consumption (000 gallons)																																																						
Gasoline	0.14	17	0	17.14	0.56	20.32	0	20.88	0.13	17.62	0	17.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0.16	0	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Diesel	0	0	0.06	0.06	0	0	0.82	0.82	0	0	0.07	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.39	33.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.34

Title : Hidden Hills Onroad - GVB
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2011/06/13 05:37:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Great Basin Valleys Air Basin Avera
I/M Stat : COO Basic (2005) -- Using I/M schedule for area 1 Alpine (GBV)
Emissions: Tons Per Day
Title : Hidden Hills Onroad PM2.5 - Statewide
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2011/06/13 05:37:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Statewide totals Average
I/M Stat : Enhanced Interim (2005) -- Using I/M schedule for area 59 Los Angeles (SC)
Emissions: Tons Per Day
****

	LDA-NCAT	LDA-CAT	LDA-DSL	LDA-TOT	LDT1-NCAT	LDT1-CAT	LDT1-DSL	LDT1-TOT	LDT2-NCAT	LDT2-CAT	LDT2-DSL	LDT2-TOT	MDV-NCAT	MDV-CAT	MDV-DSL	MDV-TOT	LHDT1-NCA	LHDT1-CAT	LHDT1-DSL	LHDT1-TOT	LHDT2-NCA	LHDT2-CAT	LHDT2-DSL	LHDT2-TOT	MHDT-NCAT	MHDT-CAT	MHDT-DSL	MHDT-TOT	HHDT-NCAT	HHDT-CAT	HHDT-DSL	HHDT-TOT	OBUS-NCA	OBUS-CAT	OBUS-DSL	OBUS-TOT	SBUS-NCAT	SBUS-CAT	SBUS-DSL	SBUS-TOT	UB-NCAT	UB-CAT	UB-DSL	UB-TOT	MH-NCAT	MH-CAT	MH-DSL	MH-TOT	MCY-NCAT	MCY-CAT	MCY-DSL	MCY-TOT	ALL-TOT
Vehicles	71588	14148500	28949	14249000	45562	2945190	129337	3120090	26018	5921690	11298	5959010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	841	8598	232401	241840	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23570090
VMT/1000	1102	479642	633	481376	861	103331	3727	107919	504	213994	303	214801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	810	41224	42044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	846140
Trips	278082	88774300	152701	89205100	178498	18227800	775381	19181700	102162	37130000	64389	37296600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38399	392653	1176070	1607120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147290000
Total Organic Gas Emissions																																																						
Run Exh	8.16	32.23	0.12	40.51	6.44	10.58	0.34	17.36	3.82	20.71	0.04	24.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	2.38	42.95	45.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127.96
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.39	5.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.39
Start Ex	1.73	35.57	0	37.3	1.11	9.41	0	10.52	0.63	19.02	0	19.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.82	1.87	0	2.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70.17
Total Ex	9.9	67.79	0.12	77.81	7.55	19.99	0.34	27.88	4.45	39.73	0.04	44.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01	4.26	48.34	53.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203.52
Diurnal	0.47	9.37	0	9.84	0.29	2.69	0	2.98	0.17	4.17	0	4.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.17
Hot Soak	0.93	16.23	0	17.16	0.61	4.18	0	4.79	0.35	7.01	0	7.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.02	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.34
Running	5.14	38.95	0	44.09	1.73	18.63	0	20.36	0.98	31.71	0	32.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0.29	0	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97.68
Resting	0.3	5.95	0	6.25	0.19	1.72	0	1.91	0.11	2.73	0	2.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.01
Total	16.73	138.3	0.12	155.15	10.37	47.21	0.34	57.93	6.05	85.35	0.04	91.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.28	4.57	48.34	54.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	358.71
Carbon Monoxide Emissions																																																						
Run Exh	92.05	866.39	0.52	958.97	71.22	311.78	2.36	385.36	41.72	573.4	0.23	615.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.92	37.83	152.92	197.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2157.35
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.49	20.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.49
Start Ex	9.13	409.72	0	418.85	5.96	123.38	0	129.34	3.39	232.8	0	236.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.94	27.31	0	39.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	823.63
Total Ex	101.18	1276.11	0.52	1377.82	77.18	435.16	2.36	514.7	45.11	806.19	0.23	851.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.86	65.14	173.41	257.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3001.46
Oxides of Nitrogen Emissions																																																						
Run Exh	5.4	80.39	1.02	86.81	4.16	28.84	6.1	39.1	2.41	74.76	0.49	77.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.26	9.24	487.03	496.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	700.1
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49.37	49.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49.37
Start Ex	0.43	26.69	0	27.12	0.27	6.91	0	7.18	0.16	21.37	0	21.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18	3.31	0	3.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.32
Total Ex	5.83	107.08	1.02	113.93	4.43	35.75	6.1	46.29	2.57	96.13	0.49	99.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	12.55	536.4	549.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	808.78
Carbon Dioxide Emissions (000)																																																						
Run Exh	0.63	200.69	0.25	201.57	0.48	53.16	1.42	55.06	0.29	112.13	0.12	112.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.54	83.07	83.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	452.78
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.84	2.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.84
Start Ex	0.06	7.04	0	7.1	0.04	1.81	0	1.84	0.02	3.69	0	3.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.68
Total Ex	0.69	207.73	0.25	208.66	0.52	54.96	1.42	56.91	0.31	115.82	0.12	116.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.56	85.91	86.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468.3
PM2.5 Emissions																																																						
Run Exh	0.03	5.66	0.07	5.76	0.02	1.47	0.18	1.67	0.01	6.12	0.02	6.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	19.14	19.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.75
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.54
Start Ex	0	0.58	0	0.59	0	0.15	0	0.15	0	0.59	0	0.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.33
Total Ex	0.03	6.24	0.07	6.35	0.02	1.62	0.18	1.82	0.02	6.71	0.02	6.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	19.68	19.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.61
TireWear	0	1.06	0	1.06	0	0.23	0.01	0.24	0	0.47	0	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.18
BrakeWr	0.01	2.84	0	2.85	0.01	0.61	0.02	0.64	0	1.27	0	1.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.55	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.33
Total	0.04	10.14	0.08	10.26	0.03	2.46	0.21	2.7	0.02	8.45	0.03	8.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	20.64	20.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.12
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0.01	2.01	0	2.03	0.01	0.53	0.01	0.55	0	1.12	0	1.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.82	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.54
Fuel Consumption (000 gallons)																																																						
Gasoline	89.9	21491.62	0	21581.53	68.1	5702.74	0	5770.84	40.19	11998.26	0	12038.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.94	69.07	0	74.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39464.84
Diesel	0	0	22.44	22.44	0	0	128.21	128.21	0	0	10.52	10.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7732.27	7732.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7893.43

Title : Hidden Hills Onroad - GVB
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2011/06/13 05:37:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Great Basin Valleys Air Basin Avera
I/M Stat : COO Basic (2005) -- Using I/M schedule for area 1 Alpine (GBV)
Emissions: Tons Per Day
Title : Hidden Hills Onroad PM10 - Statewide
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2011/06/13 05:37:40
Scen Year: 2013 -- All model years in the range 1969 to 2013 selected
Season : Annual
Area : Statewide totals Average
I/M Stat : Enhanced Interim (2005) -- Using I/M schedule for area 59 Los Angeles (SC)
Emissions: Tons Per Day
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	LDA-NCAT	LDA-CAT	LDA-DSL	LDA-TOT	LDT1-NCAT	LDT1-CAT	LDT1-DSL	LDT1-TOT	LDT2-NCAT	LDT2-CAT	LDT2-DSL	LDT2-TOT	MDV-NCAT	MDV-CAT	MDV-DSL	MDV-TOT	LHDT1-NCA	LHDT1-CAT	LHDT1-DSL	LHDT1-TOT	LHDT2-NCA	LHDT2-CAT	LHDT2-DSL	LHDT2-TOT	MHDT-NCAT	MHDT-CAT	MHDT-DSL	MHDT-TOT	HHDT-NCAT	HHDT-CAT	HHDT-DSL	HHDT-TOT	OBUS-NCA	OBUS-CAT	OBUS-DSL	OBUS-TOT	SBUS-NCAT	SBUS-CAT	SBUS-DSL	SBUS-TOT	UB-NCAT	UB-CAT	UB-DSL	UB-TOT	MH-NCAT	MH-CAT	MH-DSL	MH-TOT	MCY-NCAT	MCY-CAT	MCY-DSL	MCY-TOT	ALL-TOT
Vehicles	71588	14148500	28949	14249000	45562	2945190	129337	3120090	26018	5921690	11298	5959010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	841	8598	232401	241840	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23570090
VMT/1000	1102	479642	633	481376	861	103331	3727	107919	504	213994	303	214801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	810	41224	42044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	846140
Trips	278082	88774300	152701	89205100	178498	18227800	775381	19181700	102162	37130000	64389	37296600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38399	392653	1176070	1607120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147290000
Total Organic Gas Emissions																																																						
Run Exh	8.16	32.23	0.12	40.51	6.44	10.58	0.34	17.36	3.82	20.71	0.04	24.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	2.38	42.95	45.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127.96
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.39	5.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.39
Start Ex	1.73	35.57	0	37.3	1.11	9.41	0	10.52	0.63	19.02	0	19.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.82	1.87	0	2.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70.17
Total Ex	9.9	67.79	0.12	77.81	7.55	19.99	0.34	27.88	4.45	39.73	0.04	44.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01	4.26	48.34	53.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203.52
Diurnal	0.47	9.37	0	9.84	0.29	2.69	0	2.98	0.17	4.17	0	4.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.17
Hot Soak	0.93	16.23	0	17.16	0.61	4.18	0	4.79	0.35	7.01	0	7.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.02	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.34
Running	5.14	38.95	0	44.09	1.73	18.63	0	20.36	0.98	31.71	0	32.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0.29	0	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97.68
Resting	0.3	5.95	0	6.25	0.19	1.72	0	1.91	0.11	2.73	0	2.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.01
Total	16.73	138.3	0.12	155.15	10.37	47.21	0.34	57.93	6.05	85.35	0.04	91.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.28	4.57	48.34	54.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	358.71
Carbon Monoxide Emissions																																																						
Run Exh	92.05	866.39	0.52	958.97	71.22	311.78	2.36	385.36	41.72	573.4	0.23	615.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.92	37.83	152.92	197.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2157.35
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.49	20.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.49
Start Ex	9.13	409.72	0	418.85	5.96	123.38	0	129.34	3.39	232.8	0	236.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.94	27.31	0	39.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	823.63
Total Ex	101.18	1276.11	0.52	1377.82	77.18	435.16	2.36	514.7	45.11	806.19	0.23	851.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.86	65.14	173.41	257.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3001.46
Oxides of Nitrogen Emissions																																																						
Run Exh	5.4	80.39	1.02	86.81	4.16	28.84	6.1	39.1	2.41	74.76	0.49	77.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.26	9.24	487.03	496.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	700.1
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49.37	49.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49.37
Start Ex	0.43	26.69	0	27.12	0.27	6.91	0	7.18	0.16	21.37	0	21.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18	3.31	0	3.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.32
Total Ex	5.83	107.08	1.02	113.93	4.43	35.75	6.1	46.29	2.57	96.13	0.49	99.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	12.55	536.4	549.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	808.78
Carbon Dioxide Emissions (000)																																																						
Run Exh	0.63	200.69	0.25	201.57	0.48	53.16	1.42	55.06	0.29	112.13	0.12	112.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.54	83.07	83.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	452.78
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.84	2.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.84
Start Ex	0.06	7.04	0	7.1	0.04	1.81	0	1.84	0.02	3.69	0	3.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.68
Total Ex	0.69	207.73	0.25	208.66	0.52	54.96	1.42	56.91	0.31	115.82	0.12	116.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.56	85.91	86.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468.3
PM10 Emissions																																																						
Run Exh	0.04	6.1	0.08	6.22	0.03	1.58	0.19	1.81	0.02	6.6	0.02	6.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	20.81	20.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35.49
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.58
Start Ex	0	0.63	0	0.63	0	0.16	0	0.17	0	0.63	0	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.43
Total Ex	0.04	6.73	0.08	6.85	0.03	1.75	0.19	1.97	0.02	7.23	0.02	7.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	21.39	21.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.5
TireWear	0.01	4.23	0.01	4.25	0.01	0.91	0.03	0.95	0	1.89	0	1.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	1.64	1.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.74
BrakeWr	0.02	6.63	0.01	6.66	0.01	1.43	0.05	1.49	0.01	2.96	0	2.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	1.28	1.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.43
Total	0.07	17.59	0.09	17.75	0.05	4.09	0.28	4.42	0.03	12.08	0.03	12.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	24.31	24.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58.67
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0.01	2.01	0	2.03	0.01	0.53	0.01	0.55	0	1.12	0	1.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.82	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.54
Fuel Consumption (000 gallons)																																																						
Gasoline	89.9	21491.62	0	21581.53	68.1	5702.74	0	5770.84	40.19	11998.26	0	12038.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.94	69.07	0	74.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39464.84
Diesel	0	0	22.44	22.44	0	0	128.21	128.21	0	0	10.52	10.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7732.27	7732.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7893.43

Hidden Hills On-Road Truck Emissions

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA--DeliveryTruck Emissions

Delivery Truck Peak Daily Emissions														
Max Number of Deliveries Per Day	Average Round Trip Haul Distance (miles)	Vehicle Miles Traveled Per Day	Emission Factors (lbs/vmt)						Daily Emissions (lbs/day)					
			NOx	CO	VOC	SOx	PM10	PM2.5	NOx	CO	VOC	SOx	PM10	PM2.5
384	100.0	38,444	0.0312	0.0144	0.0029	0.0000	0.0012	0.0010	1198.41	554.11	111.68	1.52	47.25	37.80
Idle Exhaust							0.0003	(g/idle-hr)					0.13	

Delivery Truck Peak Annual Emissions														
Rolling 12-Mo. Peak No. of Deliveries Per Year	Average Round Trip Haul Distance (miles)	Vehicle Miles Traveled Per Year	Emission Factors (lbs/vmt)						Annual Emissions (tons/yr)					
			NOx	CO	VOC	SOx	PM10	PM2.5	NOx	CO	VOC	SOx	PM10	PM2.5
6,151	100.0	615,100	0.0312	0.0144	0.0029	0.0000	0.0012	0.0010	9.59	4.43	0.89	0.01	0.38	0.30
Idle Exhaust							0.0003	(g/idle-hr)					0.001	

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA--Worker Vehicle Emissions

Worker Travel Daily Emissions (Maximum)																	
Max Number of Workers Per Day	Average Employee Round Trips Per Day	Number of Round Trips Per Day	Average Round Trip Distance (Miles)	Vehicle Miles Traveled Per Day (Miles)	Emission Factors (lbs/vmt)						Daily Emissions (lbs/day)					
					NOx	CO	VOC	SOx	PM10	PM2.5	NOx	CO	VOC	SOx	PM10	PM2.5
1033	0.925	956	100.0	95,553	0.0017	0.0233	0.0025	0.0000	0.0001	0.0001	159.39	2223.94	234.22	0.00	8.15	5.10

Worker Travel Peak Annual Emissions																	
Peak of Rolling 12-Mo. Average No. of Workers Per Day	Average Employee Round Trips Per Day	Number of Round Trips Per Day	Average Round Trip Distance (Miles)	Days per Year	Vehicle Miles Traveled Per Year	Emission Factors (lbs/vmt)						Annual Emissions (tons/yr)					
						NOx	CO	VOC	SOx	PM10	PM2.5	NOx	CO	VOC	SOx	PM10	PM2.5
961	0.925	889	100.0	288	25,592,160	0.0017	0.0233	0.0025	0.0000	0.0001	0.0001	21.35	297.82	31.37	0.00	1.09	0.68

Hidden Hills Construction Equipment Schedule

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Year						2013											2014												2015										
Calendar Month						Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
Project Month						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Equipment	HP	Usage Factor	Load Factor	Daily Operation (hrs/day)																																	Totals	Total HP-hr During Peak 12-months	Total VMT During Peak 12 Months
Solar Field Assembly and Installation																																							
ISO Carrier	290	80%	57%	10	hr/day	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	36	507,802	
Forklift, 10,000 lb (Propane)	90	80%	30%	20	hr/day	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	36	165,888	
Air Compressor, 300 cfm	140	80%	48%	20	hr/day	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	36	412,877	
Grader	175	80%	61%	10	hr/day	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	72	655,872	
Tractor	75	80%	55%	10	hr/day	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	216	760,320	
Pylon Insertion Rigs	670	80%	62%	10	hr/day	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	72	2,552,218	
Solar Field Roads Clearing, Grubbing, and Grading																																							
Grader	215	80%	61%	10	hr/day	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	36	402,893	
Site Road Work																																							
Grader	215	80%	61%	10	hr/day	0	0	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	
Scraper	330	80%	72%	10	hr/day	0	0	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	
Paver	220	80%	62%	8	hr/day	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
Concrete Batch Plant																																							
Loader	270	80%	55%	8	hr/day	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	142,560	
Transmix Trucks	250	N/A	ONROAD	5	hr/day	0	0	0	0	20	20	20	20	20	20	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150		500
Tower and Boiler Erection																																							
Strand Jack System	670	80%	62%	5	hr/day	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	132,928	
Crawler Crane	330	80%	43%	10	hr/day	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	
Rough Terrain Picker, 120 ton	300	80%	60%	10	hr/day	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	230,400	
Rough Terrain Picker, 50 ton	190	80%	60%	10	hr/day	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	72,960	
Forklift, 10,000 lb	90	80%	30%	8	hr/day	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	25,920	
Compressor, 300 cfm	140	80%	48%	10	hr/day	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	86,016	
Man Lift	75	80%	46%	11	hr/day	0	0	0	0	0	0	0	0	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	29,808	
Truck, Semi	250	NA	ONROAD	5	hr/day	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12		1,200
ACC Erection																																							
Crawler Crane	670	80%	43%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	8	295,014	
Forklft, 50,000 lb	230	80%	30%	8	hr/day	0	0	0	0	0	0	0	0		0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	12	72,864	
Forklift, 10,000 lb	90	80%	30%	8	hr/day	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	12	28,512	
Man Lift, 40 ft	50	80%	46%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	20	58,880	
Man Lift, 85 ft	75	80%	46%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	20	88,320	
Man Lift, 60 ft	50	80%	46%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	16	47,104	
Truck, Semi	250	80%	57%	5	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	10	54,720	
Rough Terrain Picker	190	80%	60%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	0	0	0	0	0	0	16	175,104	
Air Compressor, 300 cfm	140	80%	48%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	0	0	0	0	20	103,219	
Power Block Erection																																							
Crawler Crane	670	80%	43%	10	hr/day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	6	147,507	
Rough Terrain Crane, 65 Ton	250	80%	43%	10	hr/day	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	24	165,120	
Rough Terrain Crane, 35 Ton	160	80%	43%	10	hr/day	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	48	211,354	
Welder, 250 amp	20	80%	45%	10	hr/day	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	72	41,472	
Air Compressor, 125 cfm	60	80%	48%	10	hr/day	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	20	44,237	
Man Lift, 60 ft	50	80%	46%	9	hr/day	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	80	123,648	
Man Lift, 85 ft	75	80%	46%	9	hr/day	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	32	61,824	
Man Lift, 40 ft	50	80%	46%	9	hr/day	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	24	61,824	
Forklift, 10,000 lb	90	80%	30%	8	hr/day	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	44	62,208	
Rough Terrain Crane, 65 Ton	250	80%	43%	10	hr/day	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	16	110,080	
Miscellaneous																																							
Water Truck, 5,000 gal	250	NA	ONROAD	10	hr/day	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	72		17,280
Pickup Trucks (Gasoline)	250	NA	ONROAD	8	hr/day	0	0	2	2	2	2	2	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	2	2	2	0	128		25,920
AWD Gators (Gasoline)	25	100%	62%	8	hr/day	0	0	0	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	216	267,840	

Hidden Hills Construction Equipment Emission Factors

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

		Tier (Nonroad) Avg mph (Onroad)	Base Emission Factors g/bhp (1)						Transient Adjustment Factor (2)							Adjustment (3)	Adjusted Emission Factors (g/bhp - Nonroad, lb/vmt Onroad)					
Equipment	HP		BSFC lb/hp-hr	NOx	CO	VOC	SOx	PM10	Adj. Type	BSFC	NOx	CO	VOC	SOx	PM10	PM10 Fuel S	BSFC	NOx	CO	VOC	SOx	PM10
Solar Field Assembly and Installatior																						
ISO Carrier	290	3	0.367	2.500	0.748	0.184	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.748	0.184	0.005	0.064
Forklift, 10,000 lb (Propane)	90	3	0.408	3.000	2.366	0.184	0.006	0.200	Hi LF	1.01	1.04	1.53	1.05	1.01	1.47	-0.0964	0.412	3.120	3.619	0.193	0.006	0.198
Air Compressor, 300 cfm	140	3	0.367	2.500	0.867	0.184	0.005	0.220	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.867	0.184	0.005	0.134
Grader	175	3	0.367	2.500	0.867	0.184	0.005	0.220	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.326	0.193	0.005	0.237
Tractor	75	4	0.408	3.000	2.366	0.184	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	3.000	2.366	0.184	0.006	0.105
Pylon Insertion Rigs	670	3	0.367	2.500	1.327	0.167	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	1.327	0.167	0.005	0.064
Solar Field Roads Clearing, Grubbing, and Grading																						
Grader	215	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Site Road Work																						
Grader	215	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Scraper	330	3	0.367	2.500	0.843	0.167	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.289	0.175	0.005	0.134
Paver	220	3	0.367	2.500	0.748	0.184	0.005	0.150	HI LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Concrete Batch Plant																						
Loader	270	3	0.367	2.500	0.843	0.167	0.005	0.150	Lo LF	1.18	1.21	2.57	2.29	1.18	2.37	-0.1013	0.433	3.025	2.165	0.382	0.006	0.254
Transmix Trucks	250	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.12E-02	1.44E-02	2.91E-03	3.95E-05	1.23E-03
Tower and Boiler Erection																						
Strand Jack System	670	3	0.367	2.500	1.327	0.167	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	2.031	0.175	0.005	0.134
Crawler Crane	330	3	0.367	2.500	0.843	0.167	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.843	0.167	0.005	0.064
Rough Terrain Picker, 120 ton	300	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Rough Terrain Picker, 50 ton	190	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Forklift, 10,000 lb	90	3	0.408	3.000	2.366	0.184	0.006	0.200	Hi LF	1.01	1.04	1.53	1.05	1.01	1.47	-0.0964	0.412	3.120	3.619	0.193	0.006	0.198
Compressor, 300 cfm	140	3	0.367	2.500	0.867	0.184	0.005	0.220	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.867	0.184	0.005	0.134
Man Lift	75	4	0.408	3.000	2.366	0.184	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	3.000	2.366	0.184	0.006	0.105
Truck, Semi	250	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.12E-02	1.44E-02	2.91E-03	3.95E-05	1.23E-03
ACC Erection																						
Crawler Crane	670	3	0.367	2.500	1.327	0.167	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	1.327	0.167	0.005	0.064
Forklft, 50,000 lb	230	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.01	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Forklift, 10,000 lb	90	3	0.408	3.000	2.366	0.184	0.006	0.200	Hi LF	1.01	1.04	1.53	1.05	1.01	1.47	-0.0964	0.412	3.120	3.619	0.193	0.006	0.198
Man Lift, 40 ft	50	4	0.408	4.728	1.532	0.279	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.728	1.532	0.279	0.006	0.105
Man Lift, 85 ft	75	4	0.408	3.000	2.366	0.184	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	3.000	2.366	0.184	0.006	0.105
Man Lift, 60 ft	50	4	0.408	4.728	1.532	0.279	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.728	1.532	0.279	0.006	0.105
Truck, Semi	250	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.12E-02	1.44E-02	2.91E-03	3.95E-05	1.23E-03
Rough Terrain Picker	190	3	0.367	2.500	0.748	0.184	0.005	0.150	Hi LF	1.01	1.04	1.53	1.05	1.05	1.47	-0.0867	0.371	2.600	1.144	0.193	0.005	0.134
Compressor, 300 cfm	140	3	0.367	2.500	0.867	0.184	0.005	0.220	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.867	0.184	0.005	0.134
Power Block Erection																						
Crawler Crane	670	3	0.367	2.500	1.327	0.167	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	1.327	0.167	0.005	0.064
Rough Terrain Crane, 65 Ton	250	3	0.367	2.500	0.748	0.184	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.748	0.184	0.005	0.064
Rough Terrain Crane, 35 Ton	160	3	0.367	2.500	0.867	0.184	0.005	0.220	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.867	0.184	0.005	0.134
Welder, 250 amp	20	4	0.408	4.440	2.161	0.438	0.006	0.280	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.440	2.161	0.438	0.006	0.185
Compressor, 125 cfm	60	4	0.408	3.000	2.366	0.184	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	3.000	2.366	0.184	0.006	0.105
Man Lift, 60 ft	50	4	0.408	4.728	1.532	0.279	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.728	1.532	0.279	0.006	0.105
Man Lift, 85 ft	75	4	0.408	3.000	2.366	0.184	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	3.000	2.366	0.184	0.006	0.105
Man Lift, 40 ft	50	4	0.408	4.728	1.532	0.279	0.006	0.200	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.728	1.532	0.279	0.006	0.105
Forklift, 10,000 lb	90	3	0.408	3.000	2.366	0.184	0.006	0.200	Hi LF	1.01	1.04	1.53	1.05	1.01	1.47	-0.0964	0.412	3.120	3.619	0.193	0.006	0.198
Rough Terrain Crane, 65 Ton	250	3	0.367	2.500	0.748	0.184	0.005	0.150	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0859	0.367	2.500	0.748	0.184	0.005	0.064
Miscellaneous																						
Water Truck, 5,000 gal	250	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.12E-02	1.44E-02	2.91E-03	3.95E-05	1.23E-03
Pickup Trucks (Gasoline)	250	10.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.67E-03	2.33E-02	2.45E-03	0.00E+00	8.53E-05
AWD Gators (Gasoline)	25	4	0.408	4.440	2.161	0.438	0.006	0.280	None	1.00	1.00	1.00	1.00	1.00	1.00	-0.0954	0.408	4.440	2.161	0.438	0.006	0.185

Hidden Hills Construction Equipment Emissions

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

	Daily NOx Emissions (lbs/day)												
	2013												
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Equipment	1	2	3	4	5	6	7	8	9	10	11	12	13
Solar Field Assembly and Installation													
ISO Carrier	0.0	0.0	0.0	0.0	0.0	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Grader	0.0	0.0	0.0	0.0	0.0	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
Tractor	0.0	0.0	0.0	0.0	0.0	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
Solar Field Roads Clearing, Grubbing, and Grading													
Grader	0.0	0.0	0.0	0.0	0.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Site Road Work													
Grader	0.0	0.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	43.6	43.6	43.6	43.6	43.6	43.6	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0	0.0	0.0	0.0
Concrete Batch Plant													
Loader	0.0	0.0	0.0	0.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
Transmix Trucks	0.0	0.0	0.0	0.0	31.2	31.2	31.2	31.2	31.2	31.2	7.8	7.8	7.8
Tower and Boiler Erection													
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5	9.5	9.5	9.5
Crawler Crane	0.0	0.0	0.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	0.0	0.0
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Compressor, 300 cfm	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	12.3	12.3	12.3	0.0
Truck, Semi	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
ACC Erection													
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	12.7
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection													
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Welder, 250 amp	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Air Compressor, 125 cfm	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Man Lift, 60 ft	0.0	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Man Lift, 85 ft	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
Forklift, 10,000 lb	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Truck, 5,000 gal	0.0	0.0	0.0	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Pickup Trucks (Gasoline)	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	14.0	14.0	14.0	14.0	14.0
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	13.7	13.7	13.7	13.7
Total =	2.23	2.23	62.51	107.21	181.72	345.15	345.15	349.84	339.09	334.40	314.50	324.31	319.47
Monthly Emissions (lbs/month) =	35.66	35.66	1,000.21	1,715.42	2,907.51	5,522.43	5,522.43	5,597.49	5,425.38	5,350.33	5,032.04	5,188.88	5,111.52
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =													
Annual Emissions - Max 12-Month Rolling Total (tons/year) =													

Hidden Hills Construction Equipment Emissions

Hidden Hills Solar Electric Generating System (Total Both Plant

	2014												
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Equipment	14	15	16	17	18	19	20	21	22	23	24	25	26
Solar Field Assembly and Installation													
ISO Carrier	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	0.0	0.0	0.0
Air Compressor, 300 cfm	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0.0	0.0	0.0
Grader	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	0.0	0.0	0.0
Tractor	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	0.0	0.0	0.0
Pylon Insertion Rigs	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading													
Grader	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0	0.0	0.0
Site Road Work													
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant													
Loader	11.9	11.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	7.8	7.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection													
Strand Jack System	9.5	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	16.5	16.5	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	5.2	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	5.9	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection													
Crawler Crane	12.7	12.7	12.7	12.7	12.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
Man Lift, 40 ft	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0
Man Lift, 85 ft	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0
Man Lift, 60 ft	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Power Block Erection													
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	12.7	12.7	12.7	12.7	12.7	12.7	0.0
Rough Terrain Crane, 65 Ton	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Rough Terrain Crane, 35 Ton	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Welder, 250 amp	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Air Compressor, 125 cfm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Man Lift, 60 ft	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0
Man Lift, 85 ft	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0
Forklift, 10,000 lb	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0
Rough Terrain Crane, 65 Ton	4.7	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Truck, 5,000 gal	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Pickup Trucks (Gasoline)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
AWD Gators (Gasoline)	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Total =	323.31	323.31	323.31	262.66	279.08	279.08	271.14	271.14	267.31	256.33	81.31	79.08	55.92
Monthly Emissions (lbs/month) =	5,172.89	5,172.89	5,172.89	4,202.49	4,465.22	4,465.22	4,338.27	4,338.27	4,276.90	4,101.32	1,300.91	1,265.25	894.73
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =													
Annual Emissions - Max 12-Month Rolling Total (tons/year) =													

Hidden Hills Construction Equipment Emissions

Hidden Hills Solar Electric Generating System (Total Both Plant

	2015				
	Apr	May	Jun	Jul	Aug
Equipment	27	28	29	30	31
Solar Field Assembly and Installation					
ISO Carrier	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0
Grader	0.0	0.0	0.0	0.0	0.0
Tractor	0.0	0.0	0.0	0.0	0.0
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading					
Grader	0.0	0.0	0.0	0.0	0.0
Site Road Work					
Grader	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant					
Loader	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection					
Strand Jack System	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0
Man Lift	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0
ACC Erection					
Crawler Crane	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	5.9	0.0	0.0	0.0	0.0
Power Block Erection					
Crawler Crane	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	4.7	0.0	0.0	0.0	0.0
Rough Terrain Crane, 35 Ton	6.1	0.0	0.0	0.0	0.0
Welder, 250 amp	2.1	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.0	0.0
Miscellaneous	0.0	0.0	0.0	0.0	0.0
Water Truck, 5,000 gal	9.4	0.0	0.0	0.0	0.0
Pickup Trucks (Gasoline)	4.7	4.7	4.7	4.7	0.0
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0
Total =	32.91	4.68	4.68	4.68	0.00
Monthly Emissions (lbs/month) =	526.63	74.82	74.82	74.82	0.00
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =					62,472
Annual Emissions - Max 12-Month Rolling Total (tons/year) =					31.2

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Daily CO Emissions (lbs/day)

	2013											2014												2015							
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Equipment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Solar Field Assembly and Installation																															
ISO Carrier	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor	0.0	0.0	0.0	0.0	0.0	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading																															
Grader	0.0	0.0	0.0	0.0	0.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Road Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	0.0	0.0	5.3	5.3	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	21.6	21.6	21.6	21.6	21.6	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant																															
Loader	0.0	0.0	0.0	0.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.0	0.0	0.0	0.0	14.4	14.4	14.4	14.4	14.4	14.4	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection																															
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	9.7	9.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection																															
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
Power Block Erection																															
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
Welder, 250 amp	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous																															
Water Truck, 5,000 gal	0.0	0.0	0.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0	0.0	0.0	0.0
Pickup Trucks (Gasoline)	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	2.2	2.2	2.2	2.2	0.0
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	0.0	0.0	0.0	0.0	0.0
Total =	2.59	2.59	31.64	49.94	87.78	177.96	177.96	180.03	181.25	179.19	170.72	176.44	170.85	172.09	172.09	172.09	137.62	144.29	144.29	140.35	140.35	139.11	132.65	38.01	35.42	24.08	13.11	2.16	2.16	2.16	0.00
Monthly Emissions (lbs/month) =	41.36	41.36	506.31	799.03	1,404.49	2,847.41	2,847.41	2,880.43	2,900.05	2,867.04	2,731.46	2,823.03	2,733.53	2,753.42	2,753.42	2,753.42	2,201.91	2,308.65	2,308.65	2,245.68	2,245.68	2,225.79	2,122.46	608.09	566.73	385.25	209.73	34.59	34.59	34.59	0.00
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =																															33,093
Annual Emissions - Max 12-Month Rolling Total (tons/year) =																															16.5

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Daily VOC Emissions (lbs/day)

Equipment	2013 Feb 1	Mar 2	Apr 3	May 4	Jun 5	Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11
Solar Field Assembly and Installation											
ISO Carrier	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
Grader	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
Tractor	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9
Solar Field Roads Clearing, Grubbing, and Grading											
Grader	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
Site Road Work											
Grader	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
Scraper	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
Concrete Batch Plant											
Loader	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Transmix Trucks	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	0.7
Tower and Boiler Erection											
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
Crawler Crane	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
Truck, Semi	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ACC Erection											
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection											
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Welder, 250 amp	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Air Compressor, 125 cfm	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 60 ft	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Man Lift, 85 ft	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Miscellaneous											
Water Truck, 5,000 gal	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Pickup Trucks (Gasoline)	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.1	1.1
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
Total =	0.14	0.14	4.33	7.66	14.40	25.54	25.54	25.89	25.54	25.19	23.26
Monthly Emissions (lbs/month) =	2.20	2.20	69.35	122.54	230.32	408.65	408.65	414.22	408.60	403.04	372.10
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =											
Annual Emissions - Max 12-Month Rolling Total (tons/year) =											

Equipment	2014 Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23
Solar Field Assembly and Installation												
ISO Carrier	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Forklift, 10,000 lb (Propane)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Air Compressor, 300 cfm	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Grader	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Tractor	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Pylon Insertion Rigs	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Solar Field Roads Clearing, Grubbing, and Grading												
Grader	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Site Road Work												
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant												
Loader	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection												
Strand Jack System	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection												
Crawler Crane	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Man Lift, 40 ft	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Man Lift, 85 ft	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Man Lift, 60 ft	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Power Block Erection												
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
Rough Terrain Crane, 65 Ton	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Rough Terrain Crane, 35 Ton	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Welder, 250 amp	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Air Compressor, 125 cfm	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 60 ft	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Man Lift, 85 ft	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 65 Ton	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Miscellaneous												
Water Truck, 5,000 gal	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Pickup Trucks (Gasoline)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
AWD Gators (Gasoline)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Total =	23.88	23.58	23.81	23.81	23.81	18.61	19.82	19.82	19.28	19.28	19.05	18.36
Monthly Emissions (lbs/month) =	382.15	377.28	380.90	380.90	380.90	297.71	317.13	317.13	308.43	308.43	304.81	293.70
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =												
Annual Emissions - Max 12-Month Rolling Total (tons/year) =												

Equipment	2015 Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31
Solar Field Assembly and Installation								
ISO Carrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading								
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Road Work								
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant								
Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection								
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection								
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Power Block Erection								
Crawler Crane	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Rough Terrain Crane, 35 Ton	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Welder, 250 amp	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous								
Water Truck, 5,000 gal	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
Pickup Trucks (Gasoline)	1.1	1.1	1.1	0.4	0.4	0.4	0.4	0.0
AWD Gators (Gasoline)	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
Total =	6.52	6.39	4.76	2.68	0.37	0.37	0.37	0.00
Monthly Emissions (lbs/month) =	104.38	102.17	76.20	42.88	5.88	5.88	5.88	0.00
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =								4,615
Annual Emissions - Max 12-Month Rolling Total (tons/year) =								2.3

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Daily SOx Emissions (lbs/day)

Equipment	2013 Feb 1	Mar 2	Apr 3	May 4	Jun 5	Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11
Solar Field Assembly and Installation											
ISO Carrier	0.000	0.000	0.000	0.000	0.000	0.029	0.029	0.029	0.029	0.029	0.029
Forklift, 10,000 lb (Propane)	0.000	0.000	0.000	0.000	0.000	0.011	0.011	0.011	0.011	0.011	0.011
Air Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024	0.024	0.024
Grader	0.000	0.000	0.000	0.000	0.000	0.039	0.039	0.039	0.039	0.039	0.039
Tractor	0.000	0.000	0.000	0.000	0.000	0.048	0.048	0.048	0.048	0.048	0.048
Pylon Insertion Rigs	0.000	0.000	0.000	0.000	0.000	0.146	0.146	0.146	0.146	0.146	0.146
Solar Field Roads Clearing, Grubbing, and Grading											
Grader	0.000	0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024	0.024	0.024
Site Road Work											
Grader	0.000	0.000	0.024	0.024	0.024	0.024	0.024	0.024	0.000	0.000	0.000
Scraper	0.000	0.000	0.088	0.088	0.088	0.088	0.088	0.088	0.000	0.000	0.000
Paver	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.009	0.000	0.000
Concrete Batch Plant											
Loader	0.000	0.000	0.000	0.000	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Transmix Trucks	0.000	0.000	0.000	0.000	0.039	0.039	0.039	0.039	0.039	0.039	0.010
Tower and Boiler Erection											
Strand Jack System	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.019	0.019
Crawler Crane	0.000	0.000	0.000	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Rough Terrain Picker, 120 ton	0.000	0.000	0.000	0.000	0.033	0.033	0.033	0.033	0.033	0.033	0.033
Rough Terrain Picker, 50 ton	0.000	0.000	0.000	0.000	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Forklift, 10,000 lb	0.000	0.000	0.000	0.000	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Man Lift	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.023	0.023
Truck, Semi	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002
ACC Erection											
Crawler Crane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklft, 50,000 lb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Forklift, 10,000 lb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
Man Lift, 40 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift, 85 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift, 60 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Truck, Semi	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Power Block Erection											
Crawler Crane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Crane, 65 Ton	0.000	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Rough Terrain Crane, 35 Ton	0.000	0.000	0.000	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Welder, 250 amp	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Air Compressor, 125 cfm	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Man Lift, 60 ft	0.000	0.000	0.000	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Man Lift, 85 ft	0.000	0.000	0.000	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Man Lift, 40 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklift, 10,000 lb	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Rough Terrain Crane, 65 Ton	0.000	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Miscellaneous											
Water Truck, 5,000 gal	0.000	0.000	0.000	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Pickup Trucks (Gasoline)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AWD Gators (Gasoline)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.017	0.017
Total =	0.00	0.00	0.12	0.19	0.32	0.64	0.64	0.65	0.59	0.58	0.56
Monthly Emissions (lbs/month) =	0.06	0.06	1.86	3.05	5.04	10.19	10.19	10.35	9.50	9.35	8.98
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =											
Annual Emissions - Max 12-Month Rolling Total (tons/year) =											

Equipment	2014 Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23
Solar Field Assembly and Installation												
ISO Carrier	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
Forklift, 10,000 lb (Propane)	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Air Compressor, 300 cfm	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Grader	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
Tractor	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
Pylon Insertion Rigs	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
Solar Field Roads Clearing, Grubbing, and Grading												
Grader	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Site Road Work												
Grader	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Scraper	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Paver	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Concrete Batch Plant												
Loader	0.023	0.023	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transmix Trucks	0.010	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tower and Boiler Erection												
Strand Jack System	0.019	0.019	0.019	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Crawler Crane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker, 120 ton	0.033	0.033	0.033	0.033	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker, 50 ton	0.011	0.011	0.011	0.011	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklift, 10,000 lb	0.004	0.004	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Compressor, 300 cfm	0.012	0.012	0.012	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Truck, Semi	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ACC Erection												
Crawler Crane	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.000	0.000	0.000	0.000
Forklft, 50,000 lb	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000
Forklift, 10,000 lb	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000
Man Lift, 40 ft	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000
Man Lift, 85 ft	0.000	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.000
Man Lift, 60 ft	0.000	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.000
Truck, Semi	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.021	0.021	0.021	0.021	0.021
Air Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.012	0.012	0.012	0.012	0.012
Power Block Erection												
Crawler Crane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.025	0.025	0.025
Rough Terrain Crane, 65 Ton	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Rough Terrain Crane, 35 Ton	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Welder, 250 amp	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Air Compressor, 125 cfm	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Man Lift, 60 ft	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Man Lift, 85 ft	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.000	0.000	0.000	0.000
Man Lift, 40 ft	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Forklift, 10,000 lb	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Rough Terrain Crane, 65 Ton	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.000	0.000	0.000	0.000
Miscellaneous												
Water Truck, 5,000 gal	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Pickup Trucks (Gasoline)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AWD Gators (Gasoline)	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Total =	0.58	0.57	0.57	0.57	0.57	0.46	0.49	0.49	0.47	0.47	0.47	0.45
Monthly Emissions (lbs/month) =	9.25	9.06	9.13	9.13	9.13	7.31	7.84	7.84	7.59	7.59	7.52	7.24
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =												
Annual Emissions - Max 12-Month Rolling Total (tons/year) =												

Equipment	2015 Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31
Solar Field Assembly and Installation								
ISO Carrier	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklift, 10,000 lb (Propane)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Grader	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tractor	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pylon Insertion Rigs	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Solar Field Roads Clearing, Grubbing, and Grading								
Grader	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Site Road Work								
Grader	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Scraper	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Paver	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Concrete Batch Plant								
Loader	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transmix Trucks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tower and Boiler Erection								
Strand Jack System	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Crawler Crane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker, 120 ton	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker, 50 ton	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklift, 10,000 lb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Compressor, 300 cfm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Truck, Semi	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Picker	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor, 300 cfm	0.012	0.012	0.012	0.012	0.000	0.000	0.000	0.000
Power Block Erection								
Crawler Crane	0.025	0.025	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Crane, 65 Ton	0.009	0.009	0.009	0.009	0.000	0.000	0.000	0.000
Rough Terrain Crane, 35 Ton	0.012	0.012	0.012	0.012	0.000	0.000	0.000	0.000
Welder, 250 amp	0.003	0.003	0.003	0.003	0.000	0.000	0.000	0.000
Air Compressor, 125 cfm	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift, 60 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift, 85 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Man Lift, 40 ft	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Forklift, 10,000 lb	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rough Terrain Crane, 65 Ton	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Miscellaneous								
Water Truck, 5,000 gal	0.012	0.012	0.012	0.012	0.000	0.000	0.000	0.000
Pickup Trucks (Gasoline)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AWD Gators (Gasoline)	0.017	0.017	0.017	0.000	0.000	0.000	0.000	0.000
Total =	0.12	0.11	0.07	0.05	0.00	0.00	0.00	0.00
Monthly Emissions (lbs/month) =	1.85	1.78	1.04	0.77	0.00	0.00	0.00	0.00
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =								112
Annual Emissions - Max 12-Month Rolling Total (tons/year) =								0.1

Hidden Hills Dust Emission Process Rates

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Equipment	Average Veh Travel Rate mph	Per Unit Daily Process Rate	Units	Feb 1	Mar 2	Apr 3	May 4	Jun 5	2013 Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11
Solar Field Assembly and Installation														
ISO Carrier	0.25	1.1	VMT/Day	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3
Forklift, 10,000 lb (Propane)	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	29.3	29.3	29.3	29.3	29.3	29.3
Tractor	1.50	6.6	VMT/Day	0.0	0.0	0.0	0.0	0.0	79.2	79.2	79.2	79.2	79.2	79.2
Pylon Insertion Rigs	1.50	7.4	VMT/Day	0.0	0.0	0.0	0.0	0.0	29.8	29.8	29.8	29.8	29.8	29.8
Solar Field Roads Clearing, Grubbing, and Grading														
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	14.6	14.6	14.6	14.6	14.6	14.6
Site Road Work														
Grader	1.50	7.3	VMT/Day	0.0	0.0	14.6	14.6	14.6	14.6	14.6	14.6	0.0	0.0	0.0
Scraper	1.50	8.6	VMT/Day	0.0	0.0	34.6	34.6	34.6	34.6	34.6	34.6	0.0	0.0	0.0
Paver	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant														
Loader	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Transmix Trucks	0.25	1.3	VMT/Day	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	6.3
Tower and Boiler Erection														
Strand Jack System	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Rough Terrain Picker, 120 ton	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Rough Terrain Picker, 50 ton	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.25	1.0	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	6.2
Truck, Semi	3.00	15.0	VMT/Day	0.0	0.0	0.0	0.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
ACC Erection														
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Man Lift, 40 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	3.00	6.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection														
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Rough Terrain Crane, 35 Ton	0.25	0.9	VMT/Day	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Welder, 250 amp	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Man Lift, 85 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Man Lift, 40 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Rough Terrain Crane, 65 Ton	0.25	0.9		0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Miscellaneous														
Water Truck, 5,000 gal	3.00	30.0	VMT/Day	0.0	0.0	0.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Pickup Trucks (Gasoline)	3.00	22.5	VMT/Day	0.0	0.0	45.0	45.0	45.0	45.0	45.0	45.0	135.0	135.0	135.0
AWD Gators (Gasoline)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Windblown Dust (active construction area)	NA	276,744	SQ FT.	0.0	0.0	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744

Hidden Hills Dust Emission Process Rates

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Equipment	Average Veh Travel Rate mph	Per Unit Daily Process Rate	Units	2014 Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23
Solar Field Assembly and Installation															
ISO Carrier	0.25	1.1	VMT/Day	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Forklift, 10,000 lb (Propane)	0.25	1.2	VMT/Day	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	1.50	7.3	VMT/Day	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
Tractor	1.50	6.6	VMT/Day	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
Pylon Insertion Rigs	1.50	7.4	VMT/Day	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
Solar Field Roads Clearing, Grubbing, and Grading															
Grader	1.50	7.3	VMT/Day	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
Site Road Work															
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	1.50	8.6	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant															
Loader	0.25	0.8	VMT/Day	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.25	1.3	VMT/Day	6.3	6.3	6.3	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection															
Strand Jack System	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.25	1.2	VMT/Day	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.25	1.2	VMT/Day	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.25	1.0	VMT/Day	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	3.00	15.0	VMT/Day	15.0	15.0	15.0	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection															
Crawler Crane	0.25	0.9	VMT/Day	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.25	0.5	VMT/Day	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Man Lift, 40 ft	0.25	0.9	VMT/Day	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
Man Lift, 85 ft	0.25	0.9	VMT/Day	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
Man Lift, 60 ft	0.25	0.9	VMT/Day	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
Truck, Semi	3.00	6.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8	6.8	6.8	6.8	6.8
Rough Terrain Picker	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection															
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
Rough Terrain Crane, 65 Ton	0.25	0.9	VMT/Day	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Rough Terrain Crane, 35 Ton	0.25	0.9	VMT/Day	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Welder, 250 amp	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.25	0.8	VMT/Day	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Man Lift, 85 ft	0.25	0.8	VMT/Day	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.25	0.8	VMT/Day	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Rough Terrain Crane, 65 Ton	0.25	0.9		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
Miscellaneous															
Water Truck, 5,000 gal	3.00	30.0	VMT/Day	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Pickup Trucks (Gasoline)	3.00	22.5	VMT/Day	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
AWD Gators (Gasoline)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Windblown Dust (active construction area)	NA	276,744	SQ FT.	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744	276,744

Hidden Hills Dust Emission Process Rates

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Equipment	Average Veh Travel Rate mph	Per Unit Daily Process Rate	Units	2015 Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31
Solar Field Assembly and Installation											
ISO Carrier	0.25	1.1	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor	1.50	6.6	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pylon Insertion Rigs	1.50	7.4	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading											
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Road Work											
Grader	1.50	7.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	1.50	8.6	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant											
Loader	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.25	1.3	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection											
Strand Jack System	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.25	1.2	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.25	1.0	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	3.00	15.0	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection											
Crawler Crane	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.25	0.9	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	3.00	6.8	VMT/Day	6.8	6.8	6.8	6.8	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.25	1.2	VMT/Day	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection											
Crawler Crane	0.25	0.9	VMT/Day	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.25	0.9	VMT/Day	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
Rough Terrain Crane, 35 Ton	0.25	0.9	VMT/Day	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
Welder, 250 amp	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.25	0.8	VMT/Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.25	0.5	VMT/Day	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.25	0.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous											
Water Truck, 5,000 gal	3.00	30.0	VMT/Day	90.0	90.0	90.0	90.0	0.0	0.0	0.0	0.0
Pickup Trucks (Gasoline)	3.00	22.5	VMT/Day	135.0	135.0	135.0	45.0	45.0	45.0	45.0	0.0
AWD Gators (Gasoline)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Windblown Dust (active construction area)	NA	276,744	SQ FT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Daily PM10 Emissions (lbs/day)

Equipment	2013 Feb 1	Mar 2	Apr 3	May 4	Jun 5	Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11
Solar Field Assembly and Installation											
ISO Carrier	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
Grader	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
Tractor	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
Solar Field Roads Clearing, Grubbing, and Grading											
Grader	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
Site Road Work											
Grader	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
Scraper	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0
Concrete Batch Plant											
Loader	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Transmix Trucks	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	0.3
Tower and Boiler Erection											
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
Crawler Crane	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
Truck, Semi	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ACC Erection											
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Block Erection											
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Welder, 250 amp	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Air Compressor, 125 cfm	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 60 ft	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 85 ft	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Miscellaneous											
Water Truck, 5,000 gal	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Pickup Trucks (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
Total =	0.14	0.14	3.02	4.51	8.38	14.96	14.96	15.20	13.85	13.61	12.88
Monthly Emissions (lbs/month) =	2.26	2.26	48.25	72.23	134.09	239.37	239.37	243.24	221.66	217.79	206.13
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =											
Annual Emissions - Max 12-Month Rolling Total (tons/year) =											

Equipment	2014 Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23
Solar Field Assembly and Installation												
ISO Carrier	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Forklift, 10,000 lb (Propane)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Air Compressor, 300 cfm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Grader	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Tractor	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Pylon Insertion Rigs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Solar Field Roads Clearing, Grubbing, and Grading												
Grader	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Site Road Work												
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant												
Loader	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection												
Strand Jack System	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection												
Crawler Crane	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Forklift, 50,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Man Lift, 40 ft	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Man Lift, 85 ft	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Man Lift, 60 ft	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
Power Block Erection												
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Rough Terrain Crane, 65 Ton	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 35 Ton	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Welder, 250 amp	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Air Compressor, 125 cfm	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 60 ft	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Man Lift, 85 ft	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Forklift, 10,000 lb	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rough Terrain Crane, 65 Ton	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Miscellaneous												
Water Truck, 5,000 gal	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Pickup Trucks (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AWD Gators (Gasoline)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total =	13.12	12.91	12.99	12.99	12.99	9.56	10.41	10.41	10.18	10.18	10.09	9.69
Monthly Emissions (lbs/month) =	209.96	206.48	207.84	207.84	207.84	152.88	166.60	166.60	162.88	162.88	161.52	155.04
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =												
Annual Emissions - Max 12-Month Rolling Total (tons/year) =												

Equipment	2015 Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31
Solar Field Assembly and Installation								
ISO Carrier	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tractor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar Field Roads Clearing, Grubbing, and Grading								
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Road Work								
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Batch Plant								
Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmix Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower and Boiler Erection								
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACC Erection								
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Picker	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor, 300 cfm	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Power Block Erection								
Crawler Crane	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Rough Terrain Crane, 35 Ton	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Welder, 250 amp	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Air Compressor, 125 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift, 10,000 lb	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous								
Water Truck, 5,000 gal	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Pickup Trucks (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AWD Gators (Gasoline)	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Total =	2.83	2.69	1.83	1.24	0.01	0.01	0.01	0.00
Monthly Emissions (lbs/month) =	45.35	43.09	29.27	19.78	0.20	0.20	0.20	0.00
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =								2,560
Annual Emissions - Max 12-Month Rolling Total (tons/year) =								1.3

Hidden Hills Dust Emission Factor Derivation

Unpaved Road Travel and Active Excavation Area Control - Source: Control of Open Fugitive Dust Sources,Scraping, and Grading U.S EPA, 9/88

C = 100 - (0.8)(p)(d)(t)/(i)

p = potential average hourly daytime		
evaporation rate =	0.845	mm/hr (EPA document, Figure 3-2, summer)
evaporation rate =	0.637	mm/hr (EPA document, Figure 3-2, annual)
d = average hourly daytime traffic rate =	5.0	vehicles/hr (estimated)
t = time between watering applications =	6.00	hr/application (estimated)
i = application intensity =	1.4	L/m2 (typical level in EPA document, page 3-23)
C = average summer watering control efficiency =	85.1%	
C = average annual watering control efficiency =	88.8%	

Wind Erosion of Active Construction Area - Source: "Improvement of Specific Emission Factors (BACM Project No. 1), Final Report", prepared for South Coast AQMD by Midwest Research Institute, March 1996

Level 2 Emission Factor =	0.011	ton/acre-month
Construction Schedule =	30	days/month
=	0.7	lbs/acre-day
=	1.68196E-05	PM10 lbs/scf-day
	6.72783E-06	PM2.5 lbs/scf-day

Bulldozer Operation and Scraper Excavation - Source: AP-42, Table 11.9.1, 7/98

E = (0.75)(s^1.5)/(M^1.4)

s = silt content =	8.5%	(AP-42, Table 13.2.2-1, 12/03, construction haul route)
M = moisture content =	15.0%	(SCAQMD CEQA Handbook, Table A9-9-G-1)
E = emission factor =	0.42	PM10 lb/hr
E = emission factor =	0.23	PM2.5 lb/hr

Finish Grading - Source: AP-42, Table 11.9-1, 7/98

E = (0.60)(0.051)(S^2.0)

S = mean vehicle speed =	3.0	mph (estimate)
E = emission factor =	0.2754	PM10 lbs/scf-day
E = emission factor =	0.0193	PM2.5 lbs/scf-day

Unpaved Road Travel - Source: AP-42, Section 13.2.2, 11/06.

E = (k)[(s/12)^0.9(W/3)^0.45*

k = particle size constant =	1.5	for PM10
k = particle size constant =	0.15	for PM2.5
s = silt fraction =	8.50	(AP-42, Table 13.2.2-1, 11/06, construction sites)

Hidden Hills Dust Emission Factor Derivation

Vehicle Weights

W = water truck avg. veh. weight =	10.0	tons empty (estimated)
=	39.4	tons loaded (estimated with 8,000 gallon water capacity)
=	24.7	tons average
W = dump truck avg. veh. weight =	15.0	tons (for heavy duty Diesel trucks)
=	40.0	tons (for heavy duty Diesel trucks)
=	27.5	tons (for heavy duty Diesel trucks)
W = forklift avg. veh. weight =	8.0	tons empty (estimated)
W = auto/pickup avg. vehicle weight =	2.4	tons (CARB Area Source Manual, 9/97)
W = delivery truck avg. veh. wt. =	27.5	tons (for heavy duty Diesel trucks)
W = 3 ton truck avg. veh. Wt =	5.4	tons (estimate)
W = manlift =	25	tons (estimate from Terex Model RM75)
W = crawler crane	45	tons (estimate from Manitowoc Model 999)
W = rough terrain crane/picker =	88	tons (estimate from Grove RT 9130E)
W = farm tracotr =	3.1	tons (estimate from New Holland Model T4050)
W = scraper avg. veh. wt. =	28.2	tons empty (615 scraper, Caterpillar Performance Handbook, 10/89)
W = weight backhoe =	7.0	tons (estimate from Caterpillar model 416)
	48.6	tons loaded (615 scraper, Caterpillar Performance Handbook, 10/89)
	27.9	tons mean weight
W = fuel truck avg. veh. weight =	8.0	tons empty (estimated)
=	18.2	tons loaded (estimated with 3,000 gallons Diesel fuel capacity)
=	13.1	tons average
W = loader avg. veh. Weight =	33.35	tons (avg. of loaded and unloaded weights, 980H loader, Caterpillar Performance Handbook, 2006)
W= compactor wt. =	15.00	tons (estimate from Caterpillar model Cp-433)

PM10 Emission Factors

E = water truck emission factor =	2.84	lb PM10/VMT
E = dump truck emission factor =	2.98	lb PM10/VMT
E = forklift emiss. factor =	1.71	lb PM10/VMT
E = auto/pickup emiss. factor =	0.99	lb PM10/VMT
E = delivery truck emiss. factor =	2.98	lb PM10/VMT
E = man lift emission factor =	2.86	lb PM10/VMT
E = crawler crane emission factor =	3.72	lb PM10/VMT
E = rough terrain crane/picker =	5.03	lb PM10/VMT
E = farm tractor =	1.12	lb PM10/VMT
E = 3-ton truck emiss. factor =	1.43	lb PM10/VMT
E = scraper emiss. factor =	3.00	lb PM10/VMT
E = fuel truck emiss. factor =	2.13	lb PM10/VMT
E = loader emiss. factor =	3.25	lb PM10/VMT
E= backhoe emiss. factor =	1.61	lb PM10/VMT
E= compactor emiss. factor =	2.27	lb PM10/VMT

Hidden Hills Dust Emission Factor Derivation

PM2.5 Emission Factors

E = water truck emission factor =	0.28	lb PM2.5/VMT
E = dump truck emission factor =	0.30	lb PM2.5/VMT
E = forklift emiss. factor =	0.17	lb PM2.5/VMT
E = auto/pickup emiss. factor =	0.10	lb PM2.5/VMT
E = delivery truck emiss. factor =	0.30	lb PM2.5/VMT
E = man lift emission factor =	0.29	lb PM2.5/VMT
E = crawler crane emission factor =	0.37	lb PM2.5/VMT
E = rough terrain crane/picker =	0.50	lb PM2.5/VMT
E = farm tractor =	0.11	lb PM2.5/VMT
E = 3-ton truck emiss. factor =	0.14	lb PM2.5/VMT
E = scraper emiss. factor =	0.30	lb PM2.5/VMT
E = fuel truck emiss. factor =	0.21	lb PM2.5/VMT
E = loader emiss. factor =	0.33	lb PM2.5/VMT
E = backhoe emiss factor =	0.16	lb PM2.5/VMT
E = compactor emiss. Factor =	0.23	lb PM2.5/VMT

Gravel Road Travel - Source: AP-42, Section 13.2.2, 11/06.

E = (k)[(s/12)^0.9(W/3)^0.45*

k = particle size constant =	1.5	for PM10
k = particle size constant =	0.15	for PM2.5
s = silt fraction =	6.40	(AP-42, Table 13.2.2-1, 11/06, gravel road)

Vehicle Weights

W = water truck avg. veh. weight =	10.0	tons empty (estimated)
=	39.4	tons loaded (estimated with 8,000 gallon water capacity)
=	24.7	tons average
W = dump truck avg. veh. weight =	15.0	tons (for heavy duty Diesel trucks)
=	40.0	tons (for heavy duty Diesel trucks)
=	27.5	tons (for heavy duty Diesel trucks)
W = forklift avg. veh. weight =	8	tons empty (estimated)

PM10 Emission Factors

E = auto/pickup emiss. factor =	0.77	lb PM10/VMT
E = delivery truck emiss. factor =	2.31	lb PM10/VMT

PM2.5 Emission Factors

E = auto/pickup emiss. factor =	0.08	lb PM2.5/VMT
E = delivery truck emiss. factor =	0.23	lb PM2.5/VMT

Hidden Hills Dust Emission Factors

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA

Equipment	Units	Uncontrolled PM2.5 Emission Factor (lbs/unit)	Uncontrolled PM10 Emission Factor (lbs/unit)	Control Factor (%)	Controlled PM2.5 Emission Factor (lbs/unit)	Controlled PM10 Emission Factor (lbs/unit)
Solar Field Assembly and Installation						
ISO Carrier	VMT	0.30	2.98	85%	0.04	0.44
Forklift, 10,000 lb (Propane)	VMT	0.17	1.71	85%	0.03	0.25
Air Compressor, 300 cfm	N/A	N/A	N/A	N/A	N/A	N/A
Grader	VMT	0.02	0.28	85%	0.00	0.04
Tractor	VMT	0.11	1.12	85%	0.02	0.17
Pylon Insertion Rigs	VMT	0.30	2.98	85%	0.04	0.44
Solar Field Roads Clearing, Grubbing, and Grading						
Grader	VMT	0.02	0.28	85%	0.00	0.04
Site Road Work						
Grader	VMT	0.02	0.28	85%	0.00	0.04
Scraper	VMT	0.23	0.42	85%	0.03	0.06
Paver	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Batch Plant						
Loader	VMT	0.33	3.25	85%	0.05	0.48
Transmix Trucks	VMT	0.30	2.98	85%	0.04	0.44
Tower and Boiler Erection						
Strand Jack System	N/A	N/A	N/A	N/A	N/A	N/A
Crawler Crane	VMT	0.37	3.72	85%	0.06	0.55
Rough Terrain Picker, 120 ton	VMT	0.50	5.03	85%	0.08	0.75
Rough Terrain Picker, 50 ton	VMT	0.50	5.03	85%	0.08	0.75
Forklift, 10,000 lb	VMT	0.17	1.71	85%	0.03	0.25
Compressor, 300 cfm	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	VMT	0.29	2.86	85%	0.04	0.43
Truck, Semi	VMT	0.30	2.98	85%	0.04	0.44
ACC Erection						
Crawler Crane	VMT	0.37	3.72	85%	0.06	0.55
Forklft, 50,000 lb	VMT	0.17	1.71	85%	0.03	0.25
Forklift, 10,000 lb	VMT	0.17	1.71	85%	0.03	0.25
Man Lift, 40 ft	VMT	0.29	2.86	85%	0.04	0.43
Man Lift, 85 ft	VMT	0.29	2.86	85%	0.04	0.43
Man Lift, 60 ft	VMT	0.29	2.86	85%	0.04	0.43
Truck, Semi	VMT	0.30	2.98	85%	0.04	0.44
Rough Terrain Picker	VMT	0.50	5.03	85%	0.08	0.75
Air Compressor, 300 cfm	N/A	N/A	N/A	N/A	N/A	N/A
Power Block Erection						
Crawler Crane	VMT	0.37	3.72	85%	0.06	0.55
Rough Terrain Crane, 65 Ton	VMT	0.50	5.03	85%	0.08	0.75
Rough Terrain Crane, 35 Ton	VMT	0.50	5.03	85%	0.08	0.75
Welder, 250 amp	N/A	N/A	N/A	N/A	N/A	N/A
Air Compressor, 125 cfm	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift, 60 ft	VMT	0.29	2.86	85%	0.04	0.43
Man Lift, 85 ft	VMT	0.29	2.86	85%	0.04	0.43
Man Lift, 40 ft	VMT	0.29	2.86	85%	0.04	0.43
Forklift, 10,000 lb	VMT	0.17	1.71	85%	0.03	0.25
Rough Terrain Crane, 65 Ton	VMT	0.50	5.03	85%	0.08	0.75
Miscellaneous						
Water Truck, 5,000 gal	VMT	0.28	2.84	85%	0.04	0.42
Pickup Trucks (Gasoline)	VMT	0.10	0.99	85%	0.01	0.15
AWD Gators (Gasoline)	N/A	N/A	N/A	N/A	N/A	N/A
Windblown Dust (active construction area)	SQ FT.	6.73E-06	1.68E-05	85%	1.00E-06	2.51E-06

Hidden Hills - Onsite Dust Emissions

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Daily Dust Emissions (lbs/day) - PM2.5

	2013											2014												2015								
Equipment	Feb 1	Mar 2	Apr 3	May 4	Jun 5	Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11	Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23	Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31	
Solar Field Assembly and Installation																																
ISO Carrier	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Grader	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tractor	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Solar Field Roads Clearing, Grubbing, and Grading																																
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Site Road Work																																
Grader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Scraper	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Concrete Batch Plant																																
Loader	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transmix Trucks	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tower and Boiler Erection																																
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Truck, Semi	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACC Erection																																
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	
Rough Terrain Picker	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Power Block Erection																																
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
Welder, 250 amp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Air Compressor, 125 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 60 ft	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 85 ft	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Miscellaneous																																
Water Truck, 5,000 gal	0.0	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	
Pickup Trucks (Gasoline)	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.7	0.7	0.7	0.7	0.0	
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Windblown Dust (active construction area)	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total =	0.02	0.02	2.20	6.52	8.67	11.60	11.60	11.60	11.97	11.97	11.16	11.23	11.12	11.20	11.20	11.20	9.88	10.37	10.37	10.23	10.23	10.16	9.98	6.56	6.54	6.31	4.98	0.67	0.67	0.67	0.00	
Monthly Emissions (lbs/month) =	0.37	0.37	35.20	104.37	138.78	185.66	185.66	185.66	191.54	191.54	178.57	179.67	177.94	179.20	179.20	179.20	158.12	165.86	165.86	163.73	163.73	162.48	159.61	104.99	104.63	100.98	79.62	10.68	10.68	10.68	0.00	3,854.59
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =																															2,078	
Annual Emissions - Max 12-Month Rolling Total (tons/year) =																															1.0	

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Daily Dust Emissions (lbs/day) - PM10

	2013											2014												2015									
Equipment	Feb 1	Mar 2	Apr 3	May 4	Jun 5	Jul 6	Aug 7	Sep 8	Oct 9	Nov 10	Dec 11	Jan 12	Feb 13	Mar 14	Apr 15	May 16	Jun 17	Jul 18	Aug 19	Sep 20	Oct 21	Nov 22	Dec 23	Jan 24	Feb 25	Mar 26	Apr 27	May 28	Jun 29	Jul 30	Aug 31		
Solar Field Assembly and Installation																																	
ISO Carrier	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	437.771974	
Forklift, 10,000 lb (Propane)	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	264.371802	
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Grader	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	519.45484	519.4548403
Tractor	0.0	0.0	0.0	0.0	0.0	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5694.44417	
Pylon Insertion Rigs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Solar Field Roads Clearing, Grubbing, and Grading																																0	
Grader	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	259.72742	259.7274202
Site Road Work																																0	
Grader	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5758067	86.57580672
Scraper	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.262755	311.2627553
Paver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Concrete Batch Plant																																0	
Loader	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	230.35583	
Transmix Trucks	0.0	0.0	0.0	0.0	11.1	11.1	11.1	11.1	11.1	11.1	2.8	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000.0547	
Tower and Boiler Erection																																	
Strand Jack System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Crawler Crane	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5956733	
Rough Terrain Picker, 120 ton	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	518.502172	
Rough Terrain Picker, 50 ton	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	259.251086	
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0929505	
Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Man Lift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	253.843172	
Truck, Semi	0.0	0.0	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1920.05252	
ACC Erection																																0	
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5956733	
Forklft, 50,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0464752	
Forklift, 10,000 lb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0464752	
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	188.031979	
Man Lift, 85 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	188.031979	
Man Lift, 60 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.425583	
Truck, Semi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	729.619956	
Rough Terrain Picker																																0	
Air Compressor, 300 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Power Block Erection																																0	
Crawler Crane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	68.696755	
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	371.593224	
Rough Terrain Crane, 35 Ton	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	743.186447	
Welder, 250 amp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Air Compressor, 125 cfm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Man Lift, 60 ft	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	658.111927	
Man Lift, 85 ft	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	263.244771	
Man Lift, 40 ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.433578	
Forklift, 10,000 lb	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.185901	
Rough Terrain Crane, 65 Ton	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	247.728816	
Miscellaneous																																0	
Water Truck, 5,000 gal	0.0	0.0	0.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	0.0	0.0	0.0	0.0	21953.7276	
Pickup Trucks (Gasoline)	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	6.7	6.7	6.7	6.7	0.0	10252.4683	
AWD Gators (Gasoline)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
Windblown Dust (active construction area)	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	349.826881	
Total =	0.23	0.23	10.36	53.59	75.10	91.71	91.71	91.71	104.94	104.94	96.84	97.52	96.44	97.23	97.23	97.23	84.05	87.09	87.09	85.76	85.76	84.98	83.18	63.82	63.59	63.11	49.76	6.67	6.67	6.67	0.00		
Monthly Emissions (lbs/month) =	3.67	3.67	165.78	857.43	1,201.56	1,467.33	1,467.33	1,467.33	1,679.03	1,679.03	1,549.36	1,560.33	1,543.09	1,555.63	1,555.63	1,555.63	1,344.84	1,393.48	1,393.48	1,372.19	1,372.19	1,359.65	1,330.91	1,021.13	1,017.46	1,009.82	796.23	106.80	106.80	106.80	0.00		
Annual Emissions (lbs/year) =																															17,583		
Annual Emissions (tons/year) =																															8.8		
																																163565.685	162411.2566

Hidden Hills Concrete Batching Schedule

	Cubic Yards of Concrete Per Day																													
	2013											2014											2015							
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Equipment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Concrete Batching	0	0	0	0	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	5,000	5,000	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (cubic yards/month)	0	0	0	0	16,000	16,000	16,000	16,000	16,000	16,000	16,000	8,000	80,000	80,000	80,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (cubic yards)																															360,000

Hidden Hills Concrete Batch Plant Emission Factors

Controlled Batch Plant Emission Factors(1)

Operation	Emission Factors PM10	PM2.5(3)	Units	Ton Material Material Per Ton Concete	Emission Factors PM10	PM2.5(3)	Units	Ton Per Cubic Yard	Emission Factors PM10	PM2.5(3)	Units
Aggregate Transfer	9.90E-04	1.49E-04	lb/ton aggregate	0.46	4.55E-04	6.83E-05	lb/ton concrete	2.012	9.16E-04	1.37E-04	lb/cy
Sand Transfer	2.97E-04	4.46E-05	lb/ton sand	0.35	1.04E-04	1.56E-05	lb/ton concrete	2.012	2.09E-04	3.14E-05	lb/cy
Cement Unloading to Elevated Storage Silo	3.40E-04	5.10E-05	lb/ton cement supplement	0.12	4.08E-05	6.12E-06	lb/ton concrete	2.012	8.21E-05	1.23E-05	lb/cy
Cement Supplement Unloading to Storage Silo	4.90E-03	7.35E-04	lb PM10/ton cement	0.02	9.80E-05	1.47E-05	lb/ton concrete	2.012	1.97E-04	2.96E-05	lb/cy
Weigh Hopper Loading	8.40E-04	1.26E-04	lb/ton concrete	1	8.40E-04	1.26E-04	lb/ton concrete	2.012	1.69E-03	2.54E-04	lb/cy
Truck Loading	5.50E-03	8.25E-04	lb/ton concrete	1	5.50E-03	8.25E-04	lb/ton concrete	2.012	1.11E-02	1.66E-03	lb/cy

(1)Emission factors from AP-42, Section 11.12, June 2006
(2)The batch plant will have dust control equipment achieving a 70% control efficiency during sand and aggregate transfer. Source for control efficiency: BAAQMD Permit Handbook, Section 11.5 Concrete Batch Plants, March 2009.
(3)PM2.5 factor derived from PM10 factor and the ratio of particlae size multipliers contained in Equation 11.12-1.

Hidden Hills Batch Plant Emissions

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Daily Concrete Batching Emissions (lbs/day) - PM10

	PM10 Emissions (lb/day)																														
	2013											2014												2015							
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Operation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Aggregate Transfer	0.00	0.00	0.00	0.00	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.46	4.58	4.58	4.58	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
Sand Transfer	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.10	1.05	1.05	1.05	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
Cement Unloading to Elevated Storage Silo	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.41	0.41	0.41	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
Cement Supplement Unloading to Storage Silo	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.99	0.99	0.99	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
Weigh Hopper Loading	0.00	0.00	0.00	0.00	1.69	1.69	1.69	1.69	1.69	1.69	1.69	0.85	8.45	8.45	8.45	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
Truck Loading	0.00	0.00	0.00	0.00	11.07	11.07	11.07	11.07	11.07	11.07	11.07	5.53	55.33	55.33	55.33	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
Total =	0.00	0.00	0.00	0.00	14.16	14.16	14.16	14.16	14.16	14.16	14.16	7.08	70.80	70.80	70.80	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
Monthly Emissions (lbs/month) =	0.00	0.00	0.00	0.00	226.57	226.57	226.57	226.57	226.57	226.57	226.57	113.29	1132.86	1132.86	1132.86	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
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =																															5097.87
Annual Emissions - Max 12-Month Rolling Total (tons/year) =																															2.5

Hidden Hills Solar Electric Generating System (Total Both Plants)--Inyo Co., CA - Daily Concrete Batching Emissions (lbs/day) - PM2.5

	PM2.5 Emissions (lb/day)																														
	2013											2014												2015							
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Operation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Aggregate Transfer	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.07	0.69	0.69	0.69	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
Sand Transfer	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.16	0.16	0.16	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
Cement Unloading to Elevated Storage Silo	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.06	0.06	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
Cement Supplement Unloading to Storage Silo	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.15	0.15	0.15	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
Weigh Hopper Loading	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.13	1.27	1.27	1.27	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
Truck Loading	0.00	0.00	0.00	0.00	1.66	1.66	1.66	1.66	1.66	1.66	1.66	0.83	8.30	8.30	8.30	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
Total =	0.00	0.00	0.00	0.00	2.12	2.12	2.12	2.12	2.12	2.12	2.12	1.06	10.62	10.62	10.62	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
Monthly Emissions (lbs/month) =	0.00	0.00	0.00	0.00	33.99	33.99	33.99	33.99	33.99	33.99	33.99	16.99	169.93	169.93	169.93	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
Annual Emissions - Max 12-Month Rolling Total (lbs/year) =																															764.68
Annual Emissions - Max 12-Month Rolling Total (tons/year) =																															0.4