Appendix B
Calico Solar
Construction Emissions
(March 4, 2011 revision)

Calico Solar
Table B-1
Estimated Daily Maximum Construction Emissions of Criteria Pollutants (lbs/day)
(Month 7)

Activity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x
On-Site Construction Emissions						
On-Site Combustion Emissions						
Construction Equipment	15.39	14.17	218.26	42.65	276.10	0.28
Worker Vehicles	0.26	0.20	18.11	1.25	1.69	0.03
Security Vehicles	0.01	0.01	1.47	0.04	0.02	0.01
On-site generators	0.65	0.64	114.10	6.19	65.20	0.22
Bridge Construction Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00
Other Delivery Trucks	1.68	1.50	14.47	5.32	27.20	0.03
Subtotal of On-site Combustion Emissions	**17.98**	**16.51**	**366.41**	**55.45**	**370.22**	**0.56**
On-Site Fugitive Emissions						
Construction Equipment	17.19	3.97				
Storage piles	9.53	2.12				
Worker Vehicles	55.43	8.31				
Security Vehicles	37.67	5.65				
On-site generators						
Bridge Construction Delivery Trucks	0.00	0.00				
Other Delivery Trucks	273.23	37.52				
Subtotal of On-Site Fugitive Emissions	**393.04**	**57.57**				
Subtotal of On-Site Emissions	**411.02**	**74.08**	**366.41**	**55.45**	**370.22**	**0.56**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	1.77	0.98	143.20	4.27	17.12	0.17
Bridge Construction Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00
Other Delivery Trucks	4.25	3.62	23.30	5.10	115.73	0.12
Subtotal of Off-Site Combustion Emissions	**6.03**	**4.60**	**166.50**	**9.37**	**132.85**	**0.29**
Off-Site Paved Road Fugitive Dust Emissions						
Worker Vehicles	12.16	1.82				
Bridge Construction Delivery Trucks	0.00	0.00				
Other Delivery Trucks	17.70	2.66				
Subtotal of Off-Site Fugitive Emissions	**29.87**	**4.48**				
Subtotal of Off-Site Emissions	**35.89**	**9.08**	**166.50**	**9.37**	**132.85**	**0.29**
Total Maximum Daily Emissions	**446.92**	**83.16**	**532.91**	**64.82**	**503.07**	**0.85**

Calico Solar

Table B-2

Estimated Maximum Annual Construction Emissions of Criteria Pollutants (tons/year)

(Month 2 to 13)

Activity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x
On-Site Construction Emissions						
On-Site Combustion Emissions						
Construction Equipment	2.189	2.015	28.156	6.106	38.006	0.039
Worker Vehicles	0.034	0.026	2.398	0.165	0.224	0.003
Security Vehicles	0.001	0.001	0.229	0.006	0.003	0.001
On-site generators	0.102	0.099	17.799	0.966	10.171	0.034
Bridge Construction Delivery Trucks	0.000	0.000	0.000	0.000	0.000	0.000
Other Delivery Trucks	0.293	0.262	2.488	0.941	4.761	0.006
Subtotal of On-site Combustion Emissions	**2.62**	**2.40**	**51.07**	**8.18**	**53.17**	**0.08**
On-Site Fugitive Dust Emissions						
Construction Equipment	2.38	0.57				
Storage piles	0.87	0.19				
Worker Vehicles	7.34	1.10				
Security Vehicles	5.88	0.88				
On-site generators	-	-				
Bridge Construction Delivery Trucks	0.00	0.00				
Other Delivery Trucks	48.12	6.56				
Subtotal of On-Site Fugitive Emissions	**64.58**	**9.31**				
Subtotal of On-Site Emissions	**67.20**	**11.71**	**51.07**	**8.18**	**53.17**	**0.08**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	0.23	0.13	18.96	0.57	2.27	0.02
Bridge Construction Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00
Other Delivery Trucks	0.61	0.52	3.32	0.73	16.51	0.02
Subtotal of Off-Site Combustion Emissions	**0.84**	**0.65**	**22.29**	**1.29**	**18.78**	**0.04**
Off-Site Paved Road Fugitive Emissions						
Worker Vehicles	1.61	0.24				
Bridge Construction Delivery Trucks	0.00	0.00				
Other Delivery Trucks	2.53	0.38				
Subtotal of Off-Site Fugitive Emissions	**4.14**	**0.62**				
Subtotal of Off-Site Emissions	**4.98**	**1.27**	**22.29**	**1.29**	**18.78**	**0.04**
Total Maximum Annual Emissions	**72.18**	**12.98**	**73.36**	**9.48**	**71.94**	**0.12**

Estimated Annual Maximum Construction Greenhouse Gases Emissions
(metric tonnes/year)
(Month 2 to 13)

Activity	CO_2	CH_4	N_2O	CO_2e
On-Site Construction Emissions				
On-Site Combustion Emissions				
Construction Equipment	3,271.20	0.78	-	3,287.57
Worker Vehicles	311.81	0.03	0.03	321.11
Security Vehicles	32.34	0.00	0.00	32.69
On-site generators	3,249.55	0.13	0.03	3,262.16
Bridge Construction Delivery Trucks	-	-	-	-
Other Delivery Trucks	550.04	0.00	0.00	551.48
Subtotal of On-site Combustion Emissions	**7,414.94**	**0.94**	**0.07**	**7,455.01**
On-Site Fugitive Dust Emissions				
Construction Equipment				
Storage piles				
Worker Vehicles				
Security Vehicles				
On-site generators				
Bridge Construction Delivery Trucks				
Other Delivery Trucks				
Subtotal of On-Site Fugitive Emissions				
Subtotal of On-Site Emissions	**7,414.94**	**0.94**	**0.07**	**7,455.01**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	1,952.80	0.47	0.43	2,096.16
Bridge Construction Delivery Trucks	-	-	-	-
Other Delivery Trucks	1,665.99	0.01	0.00	1,667.58
Subtotal of Off-Site Combustion Emissions	**3,618.79**	**0.47**	**0.44**	**3,763.74**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
Bridge Construction Delivery Trucks				
Other Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**3,618.79**	**0.47**	**0.44**	**3,763.74**
Total Maximum Annual Emissions	**11,033.73**	**1.42**	**0.50**	**11,218.74**

Note

1. For consistency to on-site emissions, month 7 was used to represent the daily/month and months 2-13 was used to represent the annual construction off-site (on-road) emissions.

Calico Solar

Table B-3
Estimated Entire Construction Period Emissions of GHG Pollutants (tons)

Activity	CO_2	CH_4	N_2O	CO_2e
On-Site Construction Emissions				
On-Site Combustion Emissions				
Construction Equipment	8554.17	2.20	0.00	8600.33
Worker Vehicles	933.06	0.091	0.084	960.889
Security Vehicles	121.818	0.006	0.004	123.110
On-site generators	12238.556	0.482	0.121	12286.064
All Delivery Trucks	1620.506	0.017	0.016	1625.720
Subtotal of On-site Combustion Emissions	**23468.11**	**2.79**	**0.22**	**23596.11**
On-Site Fugitive Dust Emissions				
Construction Equipment				
Worker Vehicles				
Security Vehicles				
All Delivery Trucks				
Subtotal of On-Site Fugitive Emissions				
Subtotal of On-Site Emissions	**23468.11**	**2.79**	**0.22**	**23596.11**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	5843.64	1.40	1.29	6272.63
All Delivery Trucks	7841.45	0.02	0.02	7848.94
Subtotal of Off-Site Combustion Emissions	**13685.10**	**1.43**	**1.31**	**14121.57**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
All Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**13685.10**	**1.43**	**1.31**	**14121.57**
Total Entire Construction Period Emissions	**37153.21**	**4.22**	**1.53**	**37717.69**

Table B-3 rev.

Estimated Entire Construction Period Greenhouse Gases Emissions
(metric tonnes)

Activity	CO_2	CH_4	N_2O	CO_2e
On-Site Construction Emissions				
On-Site Combustion Emissions				
Construction Equipment	7,760.21	1.99	-	7,802.09
Worker Vehicles	846.46	0.08	0.08	871.70
Security Vehicles	110.51	0.01	0.00	111.68
On-site generators	11,102.63	0.44	0.11	11,145.73
All Delivery Trucks	1,470.10	0.02	0.01	1,474.83
Subtotal of On-site Combustion Emissions	**21,289.91**	**2.53**	**0.20**	**21,406.03**
On-Site Fugitive Dust Emissions				
Construction Equipment				
Worker Vehicles				
Security Vehicles				
All Delivery Trucks				
Subtotal of On-Site Fugitive Emissions				
Subtotal of On-Site Emissions	**21,289.91**	**2.53**	**0.20**	**21,406.03**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	5,301.27	1.27	1.17	5,690.44
All Delivery Trucks	7,113.65	0.02	0.02	7,120.44
Subtotal of Off-Site Combustion Emissions	**12,414.91**	**1.29**	**1.19**	**12,810.88**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
All Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**12,414.91**	**1.29**	**1.19**	**12,810.88**
Total Entire Construction Period Emissions	**33,704.82**	**3.83**	**1.39**	**34,216.91**

Calico Solar

Temporary Portable Generator Emissions

Five 250kW diesel engines which are all registered in the State Portable Equipment Registration Program (PERP).

All portable engines will be expected to run for the entire construction phase. But each portable engine will be operated at one location up to 12 month to meet PERP requirement.

PERP DIESEL ENGINE

		Emission Factor (g/kW/hr)						Tier 3 Emissions			Interim Tier 4 Emissions		
Pollutant	Power rating (kW)	Tier 3	Interim Tier 4	hr/ day	actual utilization (hr/ day)	day/ month	month/ year	lb/hr	lb/day	ton/yr	lb/hr	lb/day	ton/yr
ROG	250	0.40	0.19	16	11.84	26	12	0.22	2.61	0.41	0.10	1.24	0.19
NOx	250	4.00	2.00	16	11.84	26	12	2.20	26.08	4.07	1.10	13.04	2.03
CO	250	3.50	3.50	16	11.84	26	12	1.93	22.82	3.56	1.93	22.82	3.56
PM10	250	0.20	0.02	16	11.84	26	12	0.11	1.30	0.20	0.01	0.13	0.02

Notes:

1. If no available specific VOC emission limit, it is assumed to be 10% of the NMHC+NOx emission standard; NOx emission limit is conservatively assumed to be the same as the NMHC+NOx emission standard;
2. 250kW engine will be complied with Interim Tier 4 standards based on the PERP's requirement.
3. Utilization Load Factor (0.74) from SCAQMD

Reference:

1. CARB offroad emission factor (http://www.arb.ca.gov/msprog/offroad/offroadci.pdf)
2. CARB PERP program (http://www.arb.ca.gov/portable/portable.htm)

Daily Emissions

Engine Quantity	Engine Fuel	Power rating (kW)	Emission Requirement	Emissions (lb/day) [for each engine]									
				PM10	PM2.5	CO	ROG	NOx	SOx	CO_2	CH_4	N_2O	CO_2e
5	Diesel	250.00	PERP - Interim Tier 4 Emissions	1.30E-01	1.27E-01	2.28E+01	1.24E+00	1.30E+01	4.34E-02	4.59E+03	1.81E-01	4.52E-02	4.61E+03
Total Engines				**6.52E-01**	**6.36E-01**	**1.14E+02**	**6.19E+00**	**6.52E+01**	**2.17E-01**	**2.30E+04**	**9.05E-01**	**2.26E-01**	**2.31E+04**

Annual Emissions

Engine Quantity	Engine Fuel	Power rating (kW)	Emission Requirement	Emissions (ton/yr) [for each engine]									
				PM10	PM2.5	CO	ROG	NOx	SOx	CO_2	CH_4	N_2O	CO_2e
5	Diesel	250.00	PERP - Interim Tier 4 Emissions	2.03E-02	1.99E-02	3.56E+00	1.93E-01	2.03E+00	6.77E-03	7.16E+02	2.82E-02	7.06E-03	7.19E+02
Total Engines				**1.02E-01**	**9.93E-02**	**1.78E+01**	**9.66E-01**	**1.02E+01**	**3.39E-02**	**3.58E+03**	**1.41E-01**	**3.53E-02**	**3.60E+03**

Notes:

1. PM2.5 emission factors determined using guidance from SCAQMD Final - Methodology to Calculate PM2.5 and PM2.5 Significance Thresholds 10/1/2006, Appendix A - Updated CEIDARS Table with PM2.5 Fractions
2. Fuel usage information (from Risk Management Guidance for the Permitting of New Stationary Diesel-Fueled Engines, CARB October 2000):
   - 250kW engine: 17.33 gallon/hr max.
3. 15 ppm low sulfer fuel will be used to the engines.
4. Fuel density from EPA AP-42.
5. Greenhouse gas emission factors from CCAR General Reporting Protocol V3.1 January 2009 Tables C.7 and C.9
6. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)
   - CO_2 GWP (SAR, 1996) = 1
   - CH_4 GWP (SAR, 1996) = 21
   - N_2O GWP (SAR, 1996) = 310

Calico Solar
Construction Equipment Projection (PV and Suncatchers)

Construction Equipment Description	HP	D	G	P	Month After Construction Start (number of equipment per day)																																													
					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	32	33	34	35	36	37	38	39	40	41
Air Compressor	50	X			1	1	1	1	1	1	1	3	3	2	2	2	2	2	2	2	2	1	1						1	1	1	1	1												
Asphalt Paver	120	X				1																								1															
Backhoe	120	X			3	5	5	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	2	2	1										
Compactor	120	X			2	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	3	2	1										
Crane small (Hydraulic Vibrating Post Driver and Stickboom Crane)	175	X			5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	3	3	3	3	3	3	3	3	1	1	1	1	1
Crane large	500	X			1	1	1	2	2	2	3	1													1	1	1	1	1	1	1	1													
Dozer	250	X			1	1	1	1	1	1	1	1	1	1				1	1	1	1								1	1	1	1	1												
Generator	50	X			1	1	1	1	1	2	3	2	5	5	5	5	5	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1												
Grader	175	X			2	2	1	1	1	1	1	1	1	1				1	2	1	1								1	1	1	1	1												
Light Tower	50	X						1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1																			
Loader	250	X			2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3	3	3	3	3	1							
Maxi Sneeker (Trencher)	50	X			2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	1										
Skid Steer (Bobcat)	50	X			2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	1										
Welding Machine	50	X				1	2	3	5	5	5	5	5	5	5	5	3	3	3	3	2	1	1	1	0																				
Equipment fueled with Propane																																																		
Aerial Lift	120			X	2	6	6	6	6	6	6	6	3	3	2	2	2	5	6	6	6	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6
Fork Lift	50			X	2	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	4	4	4											
Telehandler	120			X			1	1	2	6	5	5	3	3	3	3	3	5	8	6	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Vehicles with Onroad Engines for Emissions Estimates																																																		
Concrete Delivery Truck for general construction	250	X			2	6	6																																											
Concrete Delivery Truck for bridge	250	X																											1	1	1	1	1	3	1												
Concrete Pump Truck for bridge	250	X																											1	1	1	1	1	1	1												
Dump Truck	250	X			3	7	7	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	5	2	2	1											
Flatbed Truck	250	X			2	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	10	7	7	7	7	7	7	7	7	2	2	2	2	2
Staff & Security Truck	187	/			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	6	6	6	6	6
Pickup Truck	175		X		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Water and Road Preparation Materials Truck	250	X			5	12	8	8	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3	4	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
General Materials Delivery Truck for general construction	250	X				3	3	3	3	3	3	3	3																																
General Materials Delivery Truck for bridge	250	X																											2	2	2	2	6	6	2										
Steel Piling Delivery Truck	250	X						3	3	3	3	1													3	3	3	3	3																
PV Panels Delivery Truck	250	X			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	6	6	6	6	6
Tracker Steel Delivery Truck	250	X			8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Suncatcher Delivery Truck	250	X																																21	21	21	21	21	21	21	21	21	21	21	21
Electrical and Control Systems Delivery Truck	250	X			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	2
Tracker Delivery Truck	250	X			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	2
Water Delivery Trucks	450	X																																											
Worker Passenger Vehicles	100	/			67	180	249	219	219	320	340	330	334	305	305	305	357	341	347	332	325	280	247	226	209	208	208	208	208	208	208	166	166	166	166	166	190	190	190	153	153	153	153	152	152
Total					140	315	380	350	352	457	479	466	466	433	430	430	480	469	480	462	453	401	363	341	327	326	323	322	333	332	330	286	247	265	254	241	265	263	266	229	222	222	222	221	221

Note:

1. abbreviation:
   HP=horsepower
   G=gasoline
   D=diesel
   P=propane
2. max numbers of equipment and vehicles per month = 480

Calico Solar

Description	Activity	Make / Model	Fuel	Quantity per day per month	Frequency	Horse-power	Vehicle Weight (tons)	Max Daily Onsite Distance per Vehicle (mile/day)	Assumed distance percentage to drive on onsite sealed roads	Assumed distance percentage to drive on onsite unpaved roads	Assumed distance percentage to drive on onsite paved roads	Max Daily Offsite Round-trip Distance per Vehicle within MDAQMD jurisdictional area (mile/day)	Offsite Travel to and from	Onsite Travel description
Concrete Delivery Truck for general construction			Diesel	variable - from construction equipment schedule	Daily	250	20	4.4	0%	0%	100%	74	Barstow	most concrete will be delivered to the MSC area
Concrete Delivery Truck for bridge			Diesel	variable - from construction equipment schedule	Daily	250	20	4	0%	0%	100%	74	Barstow	most concrete will be delivered to the bridge construction area
Concrete Pump Truck for bridge			Diesel	variable - from construction equipment schedule	Daily	250	20	4.4	0%	0%	100%	0	on-site only	concrete pump will be used mostly in the MSC area
Dump Truck			Diesel	variable - from construction equipment schedule	Daily	250	20	8.1	40%	10%	50%	0	on-site only	from the MSC area to the any construction area of the site
Flatbed Truck			Diesel	variable - from construction equipment schedule	Daily	250	10	16.2	40%	10%	50%	0	on-site only	delivers materials to installation location
Staff & Security Truck	Site Inspections & Security	Toyota Highlander or similar	Gasoline - Hybrid	6	Daily	187	2.25	53	100%	0%	0%	0	on-site only	travels mainly perimeter and main access road
Pickup Truck			Gasoline	variable - from construction equipment schedule	Daily	175	4	16.2	40%	10%	50%	0	on-site only	from the MSC area to the any construction area of the site
Water and Road Preparation Materials Truck			Diesel	variable - from construction equipment schedule	Daily	250	20	48	30%	60%	10%	0	on-site only	from the MSC area to the any construction area of the site
General Materials Delivery Truck for general construction	General Construction Materials	transport truck	Diesel	variable - from construction equipment schedule	Daily	250	20	4.4	0%	0%	100%	74	Barstow	most materials will be delivered to the MSC area
General Materials Delivery Truck for bridge	General Construction Materials	transport truck	Diesel	variable - from construction equipment schedule	Daily	250	20	4	0%	0%	100%	74	Barstow	most materials will be delivered to the bridge construction area
PV/Suncatcher Delivery Trucks	Steel Piling Delivery Truck	transport truck	Diesel	variable - from construction equipment schedule	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
	PV Panels Delivery Truck	transport truck	Diesel	6	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
	Tracker Steel Delivery Truck	transport truck	Diesel	11	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
	Suncatcher Delivery Truck	transport truck	Diesel	7	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
	Electrical and Control Systems Delivery Truck	transport truck	Diesel	2	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
	Tracker Delivery Truck	transport truck	Diesel	2	Daily	250	20	4.4	0%	0%	100%	156	LA area	most materials will be delivered to the MSC area
Water Delivery Trucks	water will be provided by onsite ground water well	3700 gal truck	Diesel	0	Daily	300	0		0%	0%	100%	0		
Worker Passenger Vehicles	Community to Work	Passenger vehicles	Gasoline & diesel	variable - from construction equipment schedule	Daily	100	2	4.8	10%	0%	90%	74	Barstow	to the main laydown area

Note:

1. Vehicles with variable quantities, the quantity per month can be found in Revised Construction Equipment and Vehicles Projection.
2. The average distance from the Project site entrance to bridge construction area, MSC, and the main laydown area is about 2, 2.2, and 2.4 miles, one-way, respectively.
3. The average distance between the MSC and the main laydown area is about 0.2 miles.
4. The fenceline perimeter is approximately 30 miles. Each security vehicle is assumed to travel from the MSC to the site entrance (2.2 miles), and around the perimeter plus one trip to the center of north fenced property (3.4 miles) and the center of southwest fenced property (4.7 miles) and back (and plus additional 10% for misc trips) = approximately 53 miles.
5. Average distance from main service complex to center of north and southwest portion of the site is 3.4 and 4.7 miles, respectively. Thus, the average round trip distance for each dump truck travels is 8.1 [=(3.4+4.7)/2*2] miles.
6. The water delivery truck will not be used in this project since the project is going to use the on-site water.
7. The distance from the Project site to Barstow is about 37 miles.
8. The distance from the Project site to the edge of the MDAQMD jurisdictional area toward Los Angeles is about 78 miles.
9. On-site travelling:

   Delivery Trucks: mostly from the Project site entrance to the MSC (2.2 miles).

   Worker Passenger Vehicles: from the Project site entrance to the laydown area in the MSC (2.4 miles).

   Flatbed Truck and Pick-up Truck: assumed to make 1 round trips per day to the center of north and southwest fenced properties to the PV/SunCatcher installation locations delivering assembled material and misc parts.

   Estimated the daily maximum driving distance is 48 miles for Water Trucks.

   Construction laydown area is sealed
10. There are three kinds of roads. The first is the main plant access road, which is an asphalt paved road. The second type is a dirt road, sealed with Solitac or equivalent. Most of the roads on site are of this type. The roads between suncatcher rows are of this type. The third type is not a road at all, but rather an unimproved access path between the rows of PV panels. These paths remain entirely unimproved.
11. All diesel equipment drive on unpaved road.
12. All Propane equipment drive 50% on sealed road and 50% on unpaved road.

Calico Solar
Combustion Exhaust Emissions On-site (short-term)
Highest emissions occur in month 7.

construction schedule = 12 hours per day 7 am to 7 pm
actual working hour = 10 hours per day 7 am to 7 pm
delivery trucks can arrive at the site anytime during the day or night
all workers take 1 hour lunch and two 30 minute breaks.

pedestal installation = 16 hours per day
actual pedestal installation hours = 14 hours per day

EMISSION FACTORS

				Emission factors (ton/hr)											Emission rate per piece of equipment (lb/hr)									
Equipment	**Load Factor**	**Hours/Day**	**Horsepower**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**ROG**	**NO_x**	**SO_2**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**ROG**	**NO_x**	**SO_2**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Diesel Construction Equipment																							
Air Compressor	0.48	5	50	1.33E-05	1.23E-05	1.42E-04	5.88E-05	1.20E-04	1.44E-07	1.11E-02	5.31E-06	0.00E+00	1.12E-02	2.67E-02	2.46E-02	2.83E-01	1.18E-01	2.39E-01	2.88E-04	2.23E+01	1.06E-02	0.00E+00	2.25E+01
Asphalt Paver	0.59	6	120	4.26E-05	3.92E-05	2.61E-04	8.18E-05	4.84E-04	4.05E-07	3.46E-02	7.38E-06	0.00E+00	3.47E-02	8.52E-02	7.84E-02	5.22E-01	1.64E-01	9.68E-01	8.11E-04	6.91E+01	1.48E-02	0.00E+00	6.94E+01
Backhoe	0.47	5	120	2.57E-05	2.37E-05	1.81E-04	4.54E-05	2.83E-04	3.03E-07	2.58E-02	4.10E-06	0.00E+00	2.59E-02	5.14E-02	4.73E-02	3.62E-01	9.08E-02	5.66E-01	6.06E-04	5.17E+01	8.19E-03	0.00E+00	5.19E+01
Compactor	0.47	5	120	3.20E-05	2.95E-05	2.09E-04	6.00E-05	3.69E-04	3.46E-07	2.95E-02	5.41E-06	0.00E+00	2.96E-02	6.41E-02	5.89E-02	4.17E-01	1.20E-01	7.38E-01	6.91E-04	5.89E+01	1.08E-02	0.00E+00	5.92E+01
Crane small (Hydraulic Vibrating Post Driver and	0.43	4	175	2.69E-05	2.47E-05	2.44E-04	6.05E-05	4.65E-04	4.52E-07	4.01E-02	5.46E-06	0.00E+00	4.03E-02	5.38E-02	4.95E-02	4.88E-01	1.21E-01	9.29E-01	9.03E-04	8.03E+01	1.09E-02	0.00E+00	8.05E+01
Crane large	0.43	6	500	3.42E-05	3.15E-05	3.31E-04	9.10E-05	8.85E-04	8.83E-07	9.00E-02	8.21E-06	0.00E+00	9.01E-02	6.85E-02	6.30E-02	6.62E-01	1.82E-01	1.77E+00	1.77E-03	1.80E+02	1.64E-02	0.00E+00	1.80E+02
Dozer	0.59	6	250	3.92E-05	3.61E-05	2.87E-04	1.03E-04	9.71E-04	9.34E-07	8.30E-02	9.25E-06	0.00E+00	8.32E-02	7.84E-02	7.21E-02	5.74E-01	2.05E-01	1.94E+00	1.87E-03	1.66E+02	1.85E-02	0.00E+00	1.66E+02
Generator	0.74	7	50	1.43E-05	1.32E-05	1.46E-04	5.65E-05	1.54E-04	1.98E-07	1.53E-02	5.10E-06	0.00E+00	1.54E-02	2.86E-02	2.63E-02	2.92E-01	1.13E-01	3.07E-01	3.96E-04	3.06E+01	1.02E-02	0.00E+00	3.08E+01
Grader	0.58	6	175	3.91E-05	3.60E-05	3.70E-04	8.70E-05	6.76E-04	6.97E-07	6.19E-02	7.85E-06	0.00E+00	6.21E-02	7.82E-02	7.19E-02	7.40E-01	1.74E-01	1.35E+00	1.39E-03	1.24E+02	1.57E-02	0.00E+00	1.24E+02
Light Tower	0.62	6	50	1.31E-05	1.21E-05	1.46E-04	5.16E-05	1.39E-04	1.81E-07	1.40E-02	4.66E-06	0.00E+00	1.41E-02	2.63E-02	2.42E-02	2.93E-01	1.03E-01	2.78E-01	3.62E-04	2.80E+01	9.31E-03	0.00E+00	2.82E+01
Loader	0.54	5	250	2.81E-05	2.59E-05	2.10E-04	7.46E-05	7.67E-04	8.37E-07	7.44E-02	6.73E-06	0.00E+00	7.46E-02	5.63E-02	5.18E-02	4.21E-01	1.49E-01	1.53E+00	1.67E-03	1.49E+02	1.35E-02	0.00E+00	1.49E+02
Maxi Sneeker (Trencher)	0.70	7	50	2.02E-05	1.86E-05	2.18E-04	9.18E-05	1.81E-04	2.13E-07	1.64E-02	8.28E-06	0.00E+00	1.66E-02	4.05E-02	3.72E-02	4.36E-01	1.84E-01	3.62E-01	4.25E-04	3.29E+01	1.66E-02	0.00E+00	3.32E+01
Skid Steer (Bobcat)	0.62	6	50	1.08E-05	9.96E-06	1.25E-04	3.92E-05	1.23E-04	1.65E-07	1.27E-02	3.54E-06	0.00E+00	1.28E-02	2.17E-02	1.99E-02	2.50E-01	7.84E-02	2.46E-01	3.30E-04	2.55E+01	7.07E-03	0.00E+00	2.56E+01
Welding Machine	0.45	5	50	1.45E-05	1.33E-05	1.52E-04	6.22E-05	1.36E-04	1.68E-07	1.30E-02	5.62E-06	0.00E+00	1.31E-02	2.90E-02	2.67E-02	3.04E-01	1.24E-01	2.73E-01	3.35E-04	2.59E+01	1.12E-02	0.00E+00	2.62E+01
Equipment fueled with Propane								**Emission factors (ton/hr)**															
Aerial Lift	0.51	5	120	1.39E-06	1.39E-06	7.09E-04	2.48E-06	1.02E-04	0.00E+00	1.56E-02	2.08E-05	0.00E+00	1.61E-02	2.78E-03	2.78E-03	1.42E+00	4.95E-03	2.03E-01	0.00E+00	3.12E+01	4.15E-02	0.00E+00	3.21E+01
Fork Lift	0.30	3	50	8.14E-07	8.14E-07	1.48E-04	1.41E-06	6.05E-05	0.00E+00	9.15E-03	1.18E-05	0.00E+00	9.40E-03	1.63E-03	1.63E-03	2.95E-01	2.82E-03	1.21E-01	0.00E+00	1.83E+01	2.36E-02	0.00E+00	1.88E+01
Telehandler	0.51	5	120	1.39E-06	1.39E-06	7.09E-04	2.48E-06	1.02E-04	0.00E+00	1.56E-02	2.08E-05	0.00E+00	1.61E-02	2.78E-03	2.78E-03	1.42E+00	4.95E-03	2.03E-01	0.00E+00	3.12E+01	4.15E-02	0.00E+00	3.21E+01
Vehicles with Onroad Engines for Emissions Estimates	Onsite Miles per Day Travelled per Vehicle	**Hours/Day**	**Vehicle Weight (lbs)**					**Emission factors (g/mile)**															
Concrete Delivery Truck for general construction	4.4	12	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	1.37E-03	1.23E-03	1.01E-02	4.77E-03	2.25E-02	2.42E-05	2.56E+00	4.12E-06	3.88E-06	2.56E+00
Concrete Delivery Truck for bridge	4	12	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	1.24E-03	1.12E-03	9.17E-03	4.34E-03	2.05E-02	2.20E-05	2.32E+00	3.74E-06	3.52E-06	2.33E+00
Concrete Pump Truck for bridge	4.4	12	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	1.37E-03	1.23E-03	1.01E-02	4.77E-03	2.25E-02	2.42E-05	2.56E+00	4.12E-06	3.88E-06	2.56E+00
Dump Truck	8.1	12	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	2.52E-03	2.26E-03	1.86E-02	8.78E-03	4.14E-02	4.46E-05	4.71E+00	7.58E-06	7.14E-06	4.71E+00
Flatbed Truck	16.2	12	20,000	5.80E-01	5.19E-01	5.22E+00	4.53E-01	9.31E+00	1.40E-02	1.51E+03	1.10E-03	1.70E-03	1.51E+03	1.72E-03	1.54E-03	1.55E-02	1.35E-03	2.77E-02	4.16E-05	4.48E+00	3.27E-06	5.06E-06	4.48E+00
Staff & Security Truck	53	24	4,500	1.00E-02	1.00E-02	2.10E+00	5.50E-02	3.00E-02	9.00E-03	3.26E+02	1.57E-02	1.01E-02	3.30E+02	4.86E-05	4.86E-05	1.02E-02	2.68E-04	1.46E-04	4.38E-05	1.59E+00	7.64E-05	4.91E-05	1.60E+00
Pickup Truck	16.2	12	8,000	7.20E-02	5.47E-02	5.04E+00	3.47E-01	4.70E-01	7.00E-03	7.22E+02	7.04E-02	6.47E-02	7.44E+02	2.14E-04	1.63E-04	1.50E-02	1.03E-03	1.40E-03	2.08E-05	2.15E+00	2.09E-04	1.92E-04	2.21E+00
Water and Road Preparation Materials Truck	48	12	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	1.49E-02	1.34E-02	1.10E-01	5.20E-02	2.46E-01	2.64E-04	2.79E+01	4.49E-05	4.23E-05	2.79E+01
General Materials Delivery Truck for general cons	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
General Materials Delivery Truck for bridge	4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.22E-04	5.58E-04	4.59E-03	2.17E-03	1.02E-02	1.10E-05	1.16E+00	1.87E-06	1.76E-06	1.16E+00
Steel Piling Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
PV Panels Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
Tracker Steel Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
Suncatcher Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
Electrical and Control Systems Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
Tracker Delivery Truck	4.4	24	40,000	1.69E+00	1.52E+00	1.25E+01	5.91E+00	2.79E+01	3.00E-02	3.17E+03	5.10E-03	4.80E-03	3.17E+03	6.84E-04	6.14E-04	5.05E-03	2.38E-03	1.13E-02	1.21E-05	1.28E+00	2.06E-06	1.94E-06	1.28E+00
Water Delivery Trucks	0	24	-	5.80E-01	5.19E-01	5.22E+00	4.53E-01	9.31E+00	1.40E-02	1.51E+03	1.10E-03	1.70E-03	1.51E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Worker Passenger Vehicles	4.8	24	4,000	7.20E-02	5.47E-02	5.04E+00	3.47E-01	4.70E-01	7.00E-03	7.22E+02	7.04E-02	6.47E-02	3.30E+02	3.17E-05	2.41E-05	2.22E-03	1.53E-04	2.07E-04	3.08E-06	3.18E-01	3.10E-05	2.85E-05	3.28E-01

Notes:

1. Emission factors from CARB Off-road Mobile Source Emission Factors (2006-2020) for diesel and propane equipment. (2009 data used).
   Dozer = Crawler Tractor
   Loader = Rubber Tired Loader
   Backhoe = Tractors/Loaders/Backhoes
   Light Tower = Other Construction Equipment
2. Utilization Load Factors from SCAQMD
3. $PM_{2.5}$ emission factors obtained by multiplying the PM_{10} emissions by $PM_{2.5}$ fraction in SCAQMD CEIDARS list for onroad or offroad diesel vehicles.
4. For propane equipment assumed $PM_{2.5}$ and PM_{10} Fraction of total PM is 1.000
5. Onroad vehicle emissions from EMFAC2007 model. The vehicle description in EMFAC2007 model are as follows:
   - Flatbed Truck and Water Delivery Truck are Medium-Heavy-Duty (MHD-DSL).
   - Staff & Security Truck (gasoline) is Light-Heavy-Duty (LDT2-CAT)
   - Worker Passenger Vehicle and Pickup Truck are Passenger Car (LDA-ALL)
   - Concrete Delivery Truck, Concrete Pump Truck, Dump Truck, Water/Soiltac Truck, General Materials Delivery Trucks, Suncatcher Pedestals Delivery Truck, Stirling Engines Delivery Truck, Suncatcher Metal Supports Delivery Truck, Suncatcher Mirrors Delivery Truck, Electrical and Control Systems Delivery Truck, and Azimuth & Elevation Drive Delivery Truck are all Heavy-Heavy-Duty (HHD-DSL)
6. The emissions of "Toyota Highlander Hybrid" (Staff & Security Truck) meet the Tier 2/Bin 3 Federal emissions standard (reference source 3) and its performance is 27 mile/gallon in city (from Toyota website)
7. SO_2 emission factors for the Toyota Highlander Hybrid are from EMFAC2007- Light-Duty Trucks (LDT2-CAT).
8. CH_4 and N_2O emission factors for the running vehicles are from Reference source 1: Table C.4, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009. Hybrid Truck is assumed to be gasoline light truck here.
9. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)
   CO_2 GWP (SAR, 1996) = 1
   CH_4 GWP (SAR, 1996) = 21
   N_2O GWP (SAR, 1996) = 310

MONTHLY EMISSIONS (month 1-20)

	Month 1 Daily Emissions (lb/day)										
	Quantity Mo 1	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	3.00	0.73	0.67	5.10	1.28	7.98	0.01	728.71	0.12	-	731.14
Compactor	2.00	0.60	0.55	3.92	1.13	6.93	0.01	554.00	0.10	-	556.13
Crane small (Hydraulic Vibrating Post Driver and	5.00	1.16	1.06	10.48	2.60	19.98	0.02	1,725.86	0.23	-	1,730.78
Crane large	1.00	0.41	0.38	3.99	1.10	10.66	0.01	1,083.24	0.10	-	1,085.31
Dozer	1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
Generator	1.00	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	-	227.99
Grader	2.00	0.91	0.83	8.59	2.02	15.68	0.02	1,436.20	0.18	-	1,440.03
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	2.00	0.61	0.56	4.54	1.61	16.57	0.02	1,607.50	0.15	-	1,610.56
Maxi Sneeker (Trencher)	2.00	0.57	0.52	6.11	2.57	5.06	0.01	460.44	0.23	-	465.30
Skid Steer (Bobcat)	2.00	0.27	0.25	3.10	0.97	3.05	0.00	316.15	0.09	-	317.99
Welding Machine	-	-	-	-	-	-	-	-	-	-	-
Equipment fueled with Propane											
Aerial Lift	2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
Fork Lift	2.00	0.01	0.01	1.77	0.02	0.73	-	109.77	0.14	-	112.74
Telehandler	-	-	-	-	-	-	-	-	-	-	-
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	3.00	0.09	0.08	0.67	0.32	1.49	0.00	169.43	0.00	0.00	169.51
Flatbed Truck	2.00	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
Staff & Security Truck	6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	67.00	0.05	0.04	3.57	0.25	0.33	0.00	511.53	0.05	0.05	526.78
Total	**140.00**	**7.53**	**6.89**	**86.05**	**20.99**	**126.41**	**0.14**	**13,240.25**	**2.09**	**0.08**	**13,309.63**

	Month 2 Daily Emissions (lb/day)										
	Quantity Mo 2	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
Asphalt Paver	1.00	0.50	0.46	3.08	0.97	5.71	0.00	407.89	0.09	-	409.72
Backhoe	5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
Compactor	3.00	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	-	834.20
Crane small (Hydraulic Vibrating Post Driver and	15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
Crane large	1.00	0.41	0.38	3.99	1.10	10.66	0.01	1,083.24	0.10	-	1,085.31
Dozer	1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
Generator	1.00	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	-	227.99
Grader	2.00	0.91	0.83	8.59	2.02	15.68	0.02	1,436.20	0.18	-	1,440.03
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
Maxi Sneeker (Trencher)	5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
Skid Steer (Bobcat)	5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
Welding Machine	1.00	0.13	0.12	1.37	0.56	1.23	0.00	116.71	0.05	-	117.77
Equipment fueled with Propane											
Aerial Lift	6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
Fork Lift	6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
Telehandler	-	-	-	-	-	-	-	-	-	-	-
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	7.00	0.21	0.19	1.56	0.74	3.48	0.00	395.33	0.00	0.00	395.53
Flatbed Truck	9.00	0.19	0.17	1.68	0.15	2.99	0.00	483.32	0.00	0.00	483.50
Staff & Security Truck	6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	12.00	2.15	1.93	15.85	7.49	35.35	0.04	4,016.07	0.01	0.01	4,018.10
General Materials Delivery Truck for general cons	3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	180.00	0.14	0.10	9.59	0.66	0.89	0.01	1,374.25	0.13	0.12	1,415.23
Total	**315.00**	**16.74**	**15.31**	**199.57**	**46.75**	**293.52**	**0.32**	**30,452.99**	**5.11**	**0.16**	**30,611.09**

	Month 3 Daily Emissions (lb/day)										
	Quantity Mo 3	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
Compactor	3.00	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	-	834.20
Crane small (Hydraulic Vibrating Post Driver and	15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
Crane large	1.00	0.41	0.38	3.99	1.10	10.66	0.01	1,083.24	0.10	-	1,085.31
Dozer	1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
Generator	1.00	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	-	227.99
Grader	1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
Maxi Sneeker (Trencher)	5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
Skid Steer (Bobcat)	5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
Welding Machine	2.00	0.26	0.24	2.74	1.12	2.46	0.00	233.41	0.10	-	235.54
Equipment fueled with Propane											
Aerial Lift	6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
Fork Lift	6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
Telehandler	1.00	0.01	0.01	7.23	0.03	1.04	-	159.30	0.21	-	163.74
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	7.00	0.21	0.19	1.56	0.74	3.48	0.00	395.33	0.00	0.00	395.53
Flatbed Truck	9.00	0.19	0.17	1.68	0.15	2.99	0.00	483.32	0.00	0.00	483.50
Staff & Security Truck	6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	8.00	1.43	1.29	10.57	4.99	23.57	0.03	2,677.38	0.00	0.00	2,678.73
General Materials Delivery Truck for general cons	3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	249.00	0.19	0.14	13.27	0.91	1.24	0.02	1,901.05	0.19	0.17	1,957.74
Total	**380.00**	**15.26**	**13.97**	**199.19**	**43.11**	**270.79**	**0.30**	**28,791.11**	**5.24**	**0.21**	**28,966.01**

	Month 4 Daily Emissions (lb/day)										
	Quantity Mo 4	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
Compactor	3.00	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	-	834.20
Crane small (Hydraulic Vibrating Post Driver and	15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
Crane large	2.00	0.82	0.76	7.97	2.19	21.32	0.02	2,166.47	0.20	-	2,170.62
Dozer	1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
Generator	1.00	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	-	227.99
Grader	1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
Light Tower	1.00	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	-	174.59
Loader	10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
Maxi Sneeker (Trencher)	5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
Skid Steer (Bobcat)	5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
Welding Machine	3.00	0.39	0.36	4.11	1.68	3.68	0.00	350.12	0.15	-	353.30
Equipment fueled with Propane											
Aerial Lift	6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
Fork Lift	6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
Telehandler	1.00	0.01	0.01	7.23	0.03	1.04	-	159.30	0.21	-	163.74
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	6.00	0.18	0.16	1.34	0.63	2.98	0.00	338.86	0.00	0.00	339.03
Flatbed Truck	10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
Staff & Security Truck	6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	8.00	1.43	1.29	10.57	4.99	23.57	0.03	2,677.38	0.00	0.00	2,678.73
General Materials Delivery Truck for general cons	3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
PV Panels Delivery Truck	6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	219.00	0.17	0.13	11.67	0.80	1.09	0.02	1,672.01	0.16	0.15	1,721.87
Total	**350.00**	**15.89**	**14.55**	**204.36**	**45.04**	**283.28**	**0.32**	**29,840.58**	**5.42**	**0.19**	**30,012.94**

MONTHLY EMISSIONS (month 21-41)

	Month 21 Daily Emissions (lb/day)										
	Quantity Mo 21	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	5	1.21	1.11	8.51	2.13	13.29	0.01	1214.52	0.19	0.00	1218.56
Compactor	5	1.51	1.39	9.81	2.82	17.33	0.02	1384.99	0.25	0.00	1390.33
Crane small (Hydraulic Vibrating Post Driver and	15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
Crane large	1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	0.00	455.98
Grader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	1	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	0.00	174.59
Loader	10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
Maxi Sneeker (Trencher)	5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
Skid Steer (Bobcat)	5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
Welding Machine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane											
Aerial Lift	2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
Fork Lift	6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
Telehandler	3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	5	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
Flatbed Truck	10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
Staff & Security Truck	6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	5	0.90	0.80	6.61	3.12	14.73	0.02	1673.36	0.00	0.00	1674.21
General Materials Delivery Truck for general cons	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	3	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
PV Panels Delivery Truck	6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	209	0.16	0.12	11.13	0.77	1.04	0.02	1595.66	0.16	0.14	1643.24
Total	**327**	**14.20**	**13.01**	**173.78**	**39.20**	**245.43**	**0.28**	**25835.96**	**4.67**	**0.18**	**25989.75**

	Month 22 Daily Emissions (lb/day)										
	Quantity Mo 22	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	5	1.21	1.11	8.51	2.13	13.29	0.01	1214.52	0.19	0.00	1218.56
Compactor	5	1.51	1.39	9.81	2.82	17.33	0.02	1384.99	0.25	0.00	1390.33
Crane small (Hydraulic Vibrating Post Driver and	15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
Crane large	1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	0.00	455.98
Grader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	1	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	0.00	174.59
Loader	10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
Maxi Sneeker (Trencher)	5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
Skid Steer (Bobcat)	5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
Welding Machine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane											
Aerial Lift	2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
Fork Lift	6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
Telehandler	3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	5	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
Flatbed Truck	10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
Staff & Security Truck	6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	5	0.90	0.80	6.61	3.12	14.73	0.02	1673.36	0.00	0.00	1674.21
General Materials Delivery Truck for general cons	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	3	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
PV Panels Delivery Truck	6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
Total	**326**	**14.20**	**13.01**	**173.72**	**39.20**	**245.43**	**0.28**	**25828.32**	**4.67**	**0.18**	**25981.89**

	Month 23 Daily Emissions (lb/day)										
	Quantity Mo 23	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	5	1.21	1.11	8.51	2.13	13.29	0.01	1214.52	0.19	0.00	1218.56
Compactor	5	1.51	1.39	9.81	2.82	17.33	0.02	1384.99	0.25	0.00	1390.33
Crane small (Hydraulic Vibrating Post Driver and	15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
Crane large	1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	0.00	455.98
Grader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
Maxi Sneeker (Trencher)	5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
Skid Steer (Bobcat)	5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
Welding Machine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane											
Aerial Lift	2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
Fork Lift	6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
Telehandler	3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	5	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
Flatbed Truck	10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
Staff & Security Truck	6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	3	0.54	0.48	3.96	1.87	8.84	0.01	1004.02	0.00	0.00	1004.52
General Materials Delivery Truck for general cons	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	3	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
PV Panels Delivery Truck	6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
Total	**323**	**13.68**	**12.53**	**169.27**	**37.31**	**237.81**	**0.27**	**24985.60**	**4.61**	**0.18**	**25137.62**

	Month 24 Daily Emissions (lb/day)										
	Quantity Mo 24	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment											
Air Compressor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	5	1.21	1.11	8.51	2.13	13.29	0.01	1214.52	0.19	0.00	1218.56
Compactor	5	1.51	1.39	9.81	2.82	17.33	0.02	1384.99	0.25	0.00	1390.33
Crane small (Hydraulic Vibrating Post Driver and	15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
Crane large	1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
Grader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
Maxi Sneeker (Trencher)	5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
Skid Steer (Bobcat)	5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
Welding Machine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane											
Aerial Lift	2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
Fork Lift	6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
Telehandler	3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	5	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
Flatbed Truck	10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
Staff & Security Truck	6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
Pickup Truck	11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
Water and Road Preparation Materials Truck	3	0.54	0.48	3.96	1.87	8.84	0.01	1004.02	0.00	0.00	1004.52
General Materials Delivery Truck for general cons	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	3	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
PV Panels Delivery Truck	6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
Tracker Steel Delivery Truck	8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
Suncatcher Delivery Truck	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Tracker Delivery Truck	2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
Water Delivery Trucks	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
Total	**322**	**13.47**	**12.34**	**167.11**	**36.47**	**235.54**	**0.27**	**24759.19**	**4.53**	**0.18**	**24909.62**

Month 5 Daily Emissions (lb/day)

Quantity Mo 5	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
3.00	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	-	834.20
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
2.00	0.82	0.76	7.97	2.19	21.32	0.02	2,166.47	0.20	-	2,170.62
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
1.00	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	-	227.99
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
7.00	1.25	1.13	9.25	4.37	20.62	0.02	2,342.71	0.00	0.00	2,343.89
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
-	-	-	-	-	-	-	-	-	-	-
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
219.00	0.17	0.13	11.67	0.80	1.09	0.02	1,672.01	0.16	0.15	1,721.87
352.00	**16.12**	**14.76**	**214.60**	**46.09**	**285.06**	**0.32**	**30,015.52**	**5.79**	**0.19**	**30,195.47**

Month 6 Daily Emissions (lb/day)

Quantity Mo 6	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
-	-	-	-	-	-	-	-	-	-	-
6.00	1.45	1.33	10.21	2.56	15.95	0.02	1,457.42	0.23	-	1,462.27
3.00	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	-	834.20
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
2.00	0.82	0.76	7.97	2.19	21.32	0.02	2,166.47	0.20	-	2,170.62
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
2.00	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	-	455.98
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
-	-	-	-	-	-	-	-	-	-	-
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
320.00	0.24	0.19	17.05	1.17	1.59	0.02	2,443.11	0.24	0.22	2,515.97
457.00	**16.34**	**14.97**	**250.11**	**46.58**	**288.75**	**0.32**	**31,223.78**	**6.83**	**0.26**	**31,446.57**

Month 7 Daily Emissions (lb/day)

Quantity Mo 7	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
3.00	1.24	1.14	11.96	3.29	31.98	0.03	3,249.71	0.30	-	3,255.94
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
5.00	0.07	0.07	36.13	0.13	5.18	-	796.49	1.06	-	818.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
-	-	-	-	-	-	-	-	-	-	-
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
340.00	0.26	0.20	18.11	1.25	1.69	0.03	2,595.81	0.25	0.23	2,673.22
479.00	**17.33**	**15.88**	**252.31**	**49.26**	**305.02**	**0.34**	**32,837.92**	**6.87**	**0.27**	**33,065.80**

Month 8 Daily Emissions (lb/day)

Quantity Mo 8	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
3.00	0.38	0.35	4.08	1.69	3.44	0.00	320.42	0.15	-	323.63
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
1.00	0.41	0.38	3.99	1.10	10.66	0.01	1,083.24	0.10	-	1,085.31
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
2.00	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	-	455.98
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
5.00	0.07	0.07	36.13	0.13	5.18	-	796.49	1.06	-	818.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
-	-	-	-	-	-	-	-	-	-	-
1.00	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
330.00	0.25	0.19	17.58	1.21	1.64	0.02	2,519.46	0.25	0.23	2,594.60
466.00	**16.51**	**15.12**	**244.12**	**47.21**	**283.13**	**0.32**	**30,520.95**	**6.69**	**0.26**	**30,742.92**

Month 25 Daily Emissions (lb/day)

Quantity Mo 25	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	0.00	107.88
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1.45	1.33	10.21	2.56	15.95	0.02	1457.42	0.23	0.00	1462.27
6	1.81	1.66	11.77	3.38	20.80	0.02	1661.99	0.31	0.00	1668.40
15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
1	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	0.00	981.59
1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
1	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	0.00	720.01
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
6	0.18	0.16	1.34	0.63	2.98	0.00	338.86	0.00	0.00	339.03
10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
4	0.72	0.64	5.28	2.50	11.78	0.01	1338.69	0.00	0.00	1339.37
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
3	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
333	**15.32**	**14.04**	**181.80**	**41.19**	**266.56**	**0.30**	**27588.79**	**4.87**	**0.18**	**27746.63**

Month 26 Daily Emissions (lb/day)

Quantity Mo 26	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	0.00	107.88
1	0.50	0.46	3.08	0.97	5.71	0.00	407.89	0.09	0.00	409.72
6	1.45	1.33	10.21	2.56	15.95	0.02	1457.42	0.23	0.00	1462.27
6	1.81	1.66	11.77	3.38	20.80	0.02	1661.99	0.31	0.00	1668.40
15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
1	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	0.00	981.59
1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
1	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	0.00	720.01
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
6	0.18	0.16	1.34	0.63	2.98	0.00	338.86	0.00	0.00	339.03
11	0.23	0.20	2.05	0.18	3.65	0.01	590.73	0.00	0.00	590.94
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
4	0.72	0.64	5.28	2.50	11.78	0.01	1338.69	0.00	0.00	1339.37
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
332	**15.80**	**14.48**	**184.70**	**42.00**	**271.79**	**0.30**	**27958.35**	**4.96**	**0.18**	**28117.99**

Month 27 Daily Emissions (lb/day)

Quantity Mo 27	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	0.00	107.88
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1.45	1.33	10.21	2.56	15.95	0.02	1457.42	0.23	0.00	1462.27
6	1.81	1.66	11.77	3.38	20.80	0.02	1661.99	0.31	0.00	1668.40
15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
1	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	0.00	981.59
1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
1	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	0.00	720.01
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
6	0.18	0.16	1.34	0.63	2.98	0.00	338.86	0.00	0.00	339.03
11	0.23	0.20	2.05	0.18	3.65	0.01	590.73	0.00	0.00	590.94
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
3	0.54	0.48	3.96	1.87	8.84	0.01	1004.02	0.00	0.00	1004.52
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.16	0.12	11.08	0.76	1.03	0.02	1588.02	0.15	0.14	1635.38
330	**15.12**	**13.86**	**180.30**	**40.41**	**263.13**	**0.29**	**27215.78**	**4.87**	**0.18**	**27373.43**

Month 28 Daily Emissions (lb/day)

Quantity Mo 28	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	0.00	107.88
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1.45	1.33	10.21	2.56	15.95	0.02	1457.42	0.23	0.00	1462.27
6	1.81	1.66	11.77	3.38	20.80	0.02	1661.99	0.31	0.00	1668.40
15	3.47	3.19	31.44	7.80	59.93	0.06	5177.57	0.70	0.00	5192.35
1	0.41	0.38	3.99	1.10	10.66	0.01	1083.24	0.10	0.00	1085.31
1	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	0.00	981.59
1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
1	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	0.00	720.01
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.04	2.80	22.72	8.06	82.83	0.09	8037.52	0.73	0.00	8052.79
5	1.42	1.30	15.26	6.42	12.66	0.01	1151.09	0.58	0.00	1163.26
5	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	0.00	794.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
6	0.03	0.03	5.31	0.05	2.18	0.00	329.30	0.43	0.00	338.23
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
5	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
3	0.54	0.48	3.96	1.87	8.84	0.01	1004.02	0.00	0.00	1004.52
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.13	0.10	8.84	0.61	0.82	0.01	1267.36	0.12	0.11	1305.16
286	**15.03**	**13.79**	**177.66**	**40.14**	**262.09**	**0.29**	**26784.95**	**4.84**	**0.15**	**26932.98**

Month 9 Daily Emissions (lb/day)										
Quantity Mo 9	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
3.00	0.38	0.35	4.08	1.69	3.44	0.00	320.42	0.15	-	323.63
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
5.00	1.06	0.97	10.80	4.18	11.37	0.01	1,132.03	0.38	-	1,139.95
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
3.00	0.05	0.04	0.36	0.17	0.81	0.00	92.04	0.00	0.00	92.08
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
334.00	0.25	0.19	17.79	1.23	1.66	0.02	2,550.00	0.25	0.23	2,626.05
466.00	**16.65**	**15.24**	**210.57**	**48.45**	**273.86**	**0.32**	**29,320.30**	**5.76**	**0.27**	**29,523.62**

Month 10 Daily Emissions (lb/day)										
Quantity Mo 10	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
5.00	1.06	0.97	10.80	4.18	11.37	0.01	1,132.03	0.38	-	1,139.95
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
305.00	0.23	0.18	16.25	1.12	1.52	0.02	2,328.59	0.23	0.21	2,398.04
433.00	**16.45**	**15.07**	**207.31**	**47.61**	**271.76**	**0.31**	**28,900.06**	**5.69**	**0.25**	**29,095.65**

Month 11 Daily Emissions (lb/day)										
Quantity Mo 11	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	1.06	0.97	10.80	4.18	11.37	0.01	1,132.03	0.38	-	1,139.95
-	-	-	-	-	-	-	-	-	-	-
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
305.00	0.23	0.18	16.25	1.12	1.52	0.02	2,328.59	0.23	0.21	2,398.04
430.00	**15.52**	**14.21**	**192.40**	**45.37**	**251.43**	**0.29**	**27,043.36**	**5.28**	**0.25**	**27,230.31**

Month 12 Daily Emissions (lb/day)										
Quantity Mo 12	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	1.06	0.97	10.80	4.18	11.37	0.01	1,132.03	0.38	-	1,139.95
-	-	-	-	-	-	-	-	-	-	-
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
5.00	0.65	0.60	6.85	2.80	6.14	0.01	583.53	0.25	-	588.84
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
305.00	0.23	0.18	16.25	1.12	1.52	0.02	2,328.59	0.23	0.21	2,398.04
430.00	**15.52**	**14.21**	**192.40**	**45.37**	**251.43**	**0.29**	**27,043.36**	**5.28**	**0.25**	**27,230.31**

Month 29 Daily Emissions (lb/day)										
Quantity Mo 29	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	0.00	107.88
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.48	0.44	3.40	0.85	5.32	0.01	485.81	0.08	0.00	487.42
3	0.90	0.83	5.88	1.69	10.40	0.01	830.99	0.15	0.00	834.20
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	0.00	981.59
1	0.21	0.19	2.16	0.84	2.27	0.00	226.41	0.08	0.00	227.99
1	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	0.00	720.01
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.91	0.84	6.82	2.42	24.85	0.03	2411.26	0.22	0.00	2415.84
2	0.57	0.52	6.11	2.57	5.06	0.01	460.44	0.23	0.00	465.30
2	0.27	0.25	3.10	0.97	3.05	0.00	316.15	0.09	0.00	317.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
4	0.02	0.02	3.54	0.03	1.45	0.00	219.54	0.28	0.00	225.49
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
2	0.06	0.05	0.45	0.21	0.99	0.00	112.95	0.00	0.00	113.01
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.08	0.66	0.31	1.47	0.00	167.34	0.00	0.00	167.42
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.13	0.10	8.84	0.61	0.82	0.01	1267.36	0.12	0.11	1305.16
247	**6.14**	**5.61**	**100.91**	**17.03**	**104.17**	**0.12**	**11967.80**	**2.74**	**0.15**	**12071.35**

Month 30 Daily Emissions (lb/day)										
Quantity Mo 30	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.48	0.44	3.40	0.85	5.32	0.01	485.81	0.08	0.00	487.42
2	0.60	0.55	3.92	1.13	6.93	0.01	554.00	0.10	0.00	556.13
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.91	0.84	6.82	2.42	24.85	0.03	2411.26	0.22	0.00	2415.84
2	0.57	0.52	6.11	2.57	5.06	0.01	460.44	0.23	0.00	465.30
2	0.27	0.25	3.10	0.97	3.05	0.00	316.15	0.09	0.00	317.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
4	0.02	0.02	3.54	0.03	1.45	0.00	219.54	0.28	0.00	225.49
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	0.33	0.16	0.74	0.00	83.67	0.00	0.00	83.71
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
2	0.06	0.05	0.45	0.21	0.99	0.00	112.95	0.00	0.00	113.01
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.08	0.66	0.31	1.47	0.00	167.34	0.00	0.00	167.42
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.13	0.10	8.84	0.61	0.82	0.01	1267.36	0.12	0.11	1305.16
265	**4.95**	**4.51**	**90.51**	**14.15**	**84.15**	**0.10**	**10360.22**	**2.36**	**0.15**	**10456.19**

Month 31 Daily Emissions (lb/day)										
Quantity Mo 31	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.24	0.22	1.70	0.43	2.66	0.00	242.90	0.04	0.00	243.71
1	0.30	0.28	1.96	0.56	3.47	0.00	277.00	0.05	0.00	278.07
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.91	0.84	6.82	2.42	24.85	0.03	2411.26	0.22	0.00	2415.84
1	0.28	0.26	3.05	1.28	2.53	0.00	230.22	0.12	0.00	232.65
1	0.13	0.12	1.55	0.49	1.53	0.00	158.08	0.04	0.00	159.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
4	0.02	0.02	3.54	0.03	1.45	0.00	219.54	0.28	0.00	225.49
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.01	0.01	0.11	0.05	0.25	0.00	27.89	0.00	0.00	27.90
1	0.02	0.01	0.12	0.06	0.27	0.00	30.68	0.00	0.00	30.69
1	0.03	0.03	0.22	0.11	0.50	0.00	56.48	0.00	0.00	56.50
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.13	0.10	8.84	0.61	0.82	0.01	1267.36	0.12	0.11	1305.16
254	**3.87**	**3.52**	**81.36**	**10.97**	**71.99**	**0.09**	**9228.21**	**2.12**	**0.15**	**9318.84**

Month 32 Daily Emissions (lb/day)										
Quantity Mo 32	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.91	0.84	6.82	2.42	24.85	0.03	2411.26	0.22	0.00	2415.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.13	0.10	8.84	0.61	0.82	0.01	1267.36	0.12	0.11	1305.16
241	**2.80**	**2.54**	**68.88**	**7.86**	**58.85**	**0.08**	**7929.66**	**1.58**	**0.15**	**8009.01**

Month 13 Daily Emissions (lb/day)

Quantity Mo 13	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	1.06	0.97	10.80	4.18	11.37	0.01	1,132.03	0.38	-	1,139.95
-	-	-	-	-	-	-	-	-	-	-
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
3.00	0.39	0.36	4.11	1.68	3.68	0.00	350.12	0.15	-	353.30
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
357.00	0.27	0.21	19.02	1.31	1.77	0.03	2,725.60	0.27	0.24	2,806.88
480.00	**15.30**	**14.00**	**192.43**	**44.44**	**249.23**	**0.29**	**27,206.96**	**5.22**	**0.28**	**27,403.62**

Month 14 Daily Emissions (lb/day)

Quantity Mo 14	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
3.00	0.39	0.36	4.11	1.68	3.68	0.00	350.12	0.15	-	353.30
5.00	0.07	0.07	36.13	0.13	5.18	-	796.49	1.06	-	818.72
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
5.00	0.07	0.07	36.13	0.13	5.18	-	796.49	1.06	-	818.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
341.00	0.26	0.20	18.17	1.25	1.69	0.03	2,603.44	0.25	0.23	2,681.08
469.00	**15.85**	**14.51**	**231.07**	**45.05**	**269.08**	**0.31**	**29,125.87**	**6.31**	**0.27**	**29,342.16**

Month 15 Daily Emissions (lb/day)

Quantity Mo 15	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
2.00	0.91	0.83	8.59	2.02	15.68	0.02	1,436.20	0.18	-	1,440.03
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
3.00	0.39	0.36	4.11	1.68	3.68	0.00	350.12	0.15	-	353.30
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
8.00	0.11	0.11	57.82	0.20	8.29	-	1,274.38	1.69	-	1,309.95
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
347.00	0.26	0.20	18.49	1.27	1.72	0.03	2,649.25	0.26	0.24	2,728.26
480.00	**16.36**	**14.99**	**264.59**	**46.18**	**281.09**	**0.32**	**30,526.97**	**7.25**	**0.27**	**30,764.32**

Month 16 Daily Emissions (lb/day)

Quantity Mo 16	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
3.00	0.39	0.36	4.11	1.68	3.68	0.00	350.12	0.15	-	353.30
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
332.00	0.25	0.19	17.69	1.22	1.65	0.02	2,534.73	0.25	0.23	2,610.32
462.00	**15.87**	**14.54**	**245.05**	**45.07**	**271.11**	**0.31**	**29,375.75**	**6.73**	**0.26**	**29,598.89**

Month 17 Daily Emissions (lb/day)

Quantity Mo 17	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
2.00	0.26	0.24	2.72	1.13	2.29	0.00	213.61	0.10	-	215.75
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
1.00	0.46	0.43	3.39	1.21	11.46	0.01	979.30	0.11	-	981.59
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
1.00	0.45	0.42	4.29	1.01	7.84	0.01	718.10	0.09	-	720.01
2.00	0.33	0.30	3.63	1.28	3.45	0.00	346.76	0.12	-	349.18
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
2.00	0.26	0.24	2.74	1.12	2.46	0.00	233.41	0.10	-	235.54
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
5.00	0.07	0.07	36.13	0.13	5.18	-	796.49	1.06	-	818.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
325.00	0.25	0.19	17.31	1.19	1.61	0.02	2,481.29	0.24	0.22	2,555.28
453.00	**15.72**	**14.40**	**236.08**	**44.46**	**268.81**	**0.30**	**29,046.30**	**6.46**	**0.26**	**29,262.34**

Month 33 Daily Emissions (lb/day)

Quantity Mo 33	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.91	0.84	6.82	2.42	24.85	0.03	2411.26	0.22	0.00	2415.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.14	0.11	10.12	0.70	0.94	0.01	1450.60	0.14	0.13	1493.86
265	**2.82**	**2.55**	**70.16**	**7.94**	**58.97**	**0.08**	**8112.89**	**1.60**	**0.17**	**8197.71**

Month 34 Daily Emissions (lb/day)

Quantity Mo 34	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.30	0.28	2.27	0.81	8.28	0.01	803.75	0.07	0.00	805.28
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.03	0.03	14.45	0.05	2.07	0.00	318.59	0.42	0.00	327.49
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.14	0.11	10.12	0.70	0.94	0.01	1450.60	0.14	0.13	1493.86
263	**2.21**	**1.99**	**65.61**	**6.33**	**42.40**	**0.06**	**6505.39**	**1.46**	**0.17**	**6587.15**

Month 35 Daily Emissions (lb/day)

Quantity Mo 35	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.14	0.11	10.12	0.70	0.94	0.01	1450.60	0.14	0.13	1493.86
266	**1.97**	**1.77**	**92.25**	**5.63**	**38.27**	**0.05**	**6338.83**	**2.23**	**0.17**	**6436.85**

Month 36 Daily Emissions (lb/day)

Quantity Mo 36	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.69	0.64	6.29	1.56	11.99	0.01	1035.51	0.14	0.00	1038.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.14	0.13	1.30	0.11	2.32	0.00	375.92	0.00	0.00	376.06
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.12	0.09	8.15	0.56	0.76	0.01	1168.11	0.11	0.10	1202.95
229	**1.94**	**1.75**	**90.28**	**5.49**	**38.08**	**0.05**	**6056.34**	**2.20**	**0.14**	**6145.94**

Month 37 Daily Emissions (lb/day)

Quantity Mo 37	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.23	0.21	2.10	0.52	4.00	0.00	345.17	0.05	0.00	346.16
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.12	0.09	8.15	0.56	0.76	0.01	1168.11	0.11	0.10	1202.95
222	**1.37**	**1.23**	**85.16**	**4.37**	**28.43**	**0.04**	**5097.48**	**2.11**	**0.14**	**5185.02**

Month 18 Daily Emissions (lb/day)

Quantity Mo 18	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	0.64	0.58	6.48	2.51	6.82	0.01	679.22	0.23	-	683.97
-	-	-	-	-	-	-	-	-	-	-
1.00	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	-	174.59
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
1.00	0.13	0.12	1.37	0.56	1.23	0.00	116.71	0.05	-	117.77
6.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
280.00	0.21	0.16	14.92	1.03	1.39	0.02	2,137.72	0.21	0.19	2,201.48
401.00	**14.32**	**13.11**	**207.00**	**40.26**	**243.11**	**0.28**	**26,289.86**	**5.64**	**0.23**	**26,479.20**

Month 19 Daily Emissions (lb/day)

Quantity Mo 19	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1.00	0.13	0.12	1.36	0.56	1.15	0.00	106.81	0.05	-	107.88
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	-	455.98
-	-	-	-	-	-	-	-	-	-	-
1.00	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	-	174.59
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
1.00	0.13	0.12	1.37	0.56	1.23	0.00	116.71	0.05	-	117.77
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
247.00	0.19	0.14	13.16	0.91	1.23	0.02	1,885.78	0.18	0.17	1,942.02
363.00	**14.03**	**12.84**	**174.18**	**39.20**	**236.53**	**0.27**	**25,174.32**	**4.70**	**0.21**	**25,336.77**

Month 20 Daily Emissions (lb/day)

Quantity Mo 20	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	1.21	1.11	8.51	2.13	13.29	0.01	1,214.52	0.19	-	1,218.56
5.00	1.51	1.39	9.81	2.82	17.33	0.02	1,384.99	0.25	-	1,390.33
15.00	3.47	3.19	31.44	7.80	59.93	0.06	5,177.57	0.70	-	5,192.35
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.42	0.39	4.32	1.67	4.55	0.01	452.81	0.15	-	455.98
-	-	-	-	-	-	-	-	-	-	-
1.00	0.16	0.15	1.81	0.64	1.73	0.00	173.38	0.06	-	174.59
10.00	3.04	2.80	22.72	8.06	82.83	0.09	8,037.52	0.73	-	8,052.79
5.00	1.42	1.30	15.26	6.42	12.66	0.01	1,151.09	0.58	-	1,163.26
5.00	0.67	0.62	7.76	2.43	7.63	0.01	790.38	0.22	-	794.99
1.00	0.13	0.12	1.37	0.56	1.23	0.00	116.71	0.05	-	117.77
2.00	0.03	0.03	14.45	0.05	2.07	-	318.59	0.42	-	327.49
6.00	0.03	0.03	5.31	0.05	2.18	-	329.30	0.43	-	338.23
3.00	0.04	0.04	21.68	0.08	3.11	-	477.89	0.64	-	491.23
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.15	0.14	1.11	0.53	2.49	0.00	282.38	0.00	0.00	282.52
10.00	0.21	0.19	1.86	0.16	3.32	0.00	537.03	0.00	0.00	537.22
6.00	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11.00	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
5.00	0.90	0.80	6.61	3.12	14.73	0.02	1,673.36	0.00	0.00	1,674.21
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8.00	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
-	-	-	-	-	-	-	-	-	-	-
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2.00	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
-	-	-	-	-	-	-	-	-	-	-
226.00	0.17	0.13	12.04	0.83	1.12	0.02	1,725.45	0.17	0.15	1,776.91
341.00	**13.88**	**12.71**	**171.70**	**38.56**	**235.28**	**0.27**	**24,907.18**	**4.63**	**0.19**	**25,063.79**

Month 38 Daily Emissions (lb/day)

Quantity Mo 38	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.23	0.21	2.10	0.52	4.00	0.00	345.17	0.05	0.00	346.16
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.12	0.09	8.15	0.56	0.76	0.01	1168.11	0.11	0.10	1202.95
222	**1.37**	**1.23**	**85.16**	**4.37**	**28.43**	**0.04**	**5097.48**	**2.11**	**0.14**	**5185.02**

Month 39 Daily Emissions (lb/day)

Quantity Mo 39	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.23	0.21	2.10	0.52	4.00	0.00	345.17	0.05	0.00	346.16
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.12	0.09	8.15	0.56	0.76	0.01	1168.11	0.11	0.10	1202.95
222	**1.37**	**1.23**	**85.16**	**4.37**	**28.43**	**0.04**	**5097.48**	**2.11**	**0.14**	**5185.02**

Month 40 Daily Emissions (lb/day)

Quantity Mo 40	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.23	0.21	2.10	0.52	4.00	0.00	345.17	0.05	0.00	346.16
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.12	0.09	8.10	0.56	0.76	0.01	1160.48	0.11	0.10	1195.09
221	**1.37**	**1.23**	**85.10**	**4.37**	**28.43**	**0.04**	**5089.85**	**2.11**	**0.14**	**5177.15**

Month 41 Daily Emissions (lb/day)

Quantity Mo 41	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.23	0.21	2.10	0.52	4.00	0.00	345.17	0.05	0.00	346.16
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.09	0.09	43.36	0.15	6.22	0.00	955.78	1.27	0.00	982.47
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.04	21.68	0.08	3.11	0.00	477.89	0.64	0.00	491.23
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.04	0.04	0.37	0.03	0.66	0.00	107.41	0.00	0.00	107.44
6	0.01	0.01	1.47	0.04	0.02	0.01	228.55	0.01	0.01	230.98
11	0.03	0.02	1.98	0.14	0.18	0.00	283.44	0.03	0.03	291.89
1	0.18	0.16	1.32	0.62	2.95	0.00	334.67	0.00	0.00	334.84
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.09	0.73	0.34	1.62	0.00	184.07	0.00	0.00	184.16
8	0.13	0.12	0.97	0.46	2.16	0.00	245.43	0.00	0.00	245.55
21	0.34	0.31	2.54	1.20	5.67	0.01	644.25	0.00	0.00	644.57
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
2	0.03	0.03	0.24	0.11	0.54	0.00	61.36	0.00	0.00	61.39
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.12	0.09	8.10	0.56	0.76	0.01	1160.48	0.11	0.10	1195.09
221	**1.37**	**1.23**	**85.10**	**4.37**	**28.43**	**0.04**	**5089.85**	**2.11**	**0.14**	**5177.15**

Monthly Comparison of Construction Equipment Emissions:

Month of Contruction	Total Equipment Quantity	Daily Emissions (lb/day)									
		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	140	7.53	6.89	86.05	20.99	126.41	0.14	13240.25	2.09	0.082	13309.63
2	315	16.74	15.31	199.57	46.75	293.52	0.32	30452.99	5.11	0.164	30611.09
3	380	15.26	13.97	199.19	43.11	270.79	0.30	28791.11	5.24	0.209	28966.01
4	350	15.89	14.55	204.36	45.04	283.28	0.32	29840.58	5.42	0.189	30012.94
5	352	16.12	14.76	214.60	46.09	285.06	0.32	30015.52	5.79	0.188	30195.47
6	457	16.34	14.97	250.11	46.58	288.75	0.32	31223.78	6.83	0.256	31446.57
7	479	17.33	15.88	252.31	49.26	305.02	0.34	32837.92	6.87	0.270	33065.80
8	466	16.51	15.12	244.12	47.21	283.13	0.32	30520.95	6.69	0.263	30742.92
9	466	16.65	15.24	210.57	48.45	273.86	0.32	29320.30	5.76	0.265	29523.62
10	433	16.45	15.07	207.31	47.61	271.76	0.31	28900.06	5.69	0.246	29095.65
11	430	15.52	14.21	192.40	45.37	251.43	0.29	27043.36	5.28	0.246	27230.31
12	430	15.52	14.21	192.40	45.37	251.43	0.29	27043.36	5.28	0.246	27230.31
13	480	15.30	14.00	192.43	44.44	249.23	0.29	27206.96	5.22	0.281	27403.62
14	469	15.85	14.51	231.07	45.05	269.08	0.31	29125.87	6.31	0.270	29342.16
15	480	16.36	14.99	264.59	46.18	281.09	0.32	30526.97	7.25	0.274	30764.32
16	462	15.87	14.54	245.05	45.07	271.11	0.31	29375.75	6.73	0.264	29598.89
17	453	15.72	14.40	236.08	44.46	268.81	0.30	29046.30	6.46	0.259	29262.34
18	401	14.32	13.11	207.00	40.26	243.11	0.28	26289.86	5.64	0.228	26479.20
19	363	14.03	12.84	174.18	39.20	236.53	0.27	25174.32	4.70	0.206	25336.77
20	341	13.88	12.71	171.70	38.56	235.28	0.27	24907.18	4.63	0.191	25063.79
21	327	14.20	13.01	173.78	39.20	245.43	0.28	25835.96	4.67	0.180	25989.75
22	326	14.20	13.01	173.72	39.20	245.43	0.28	25828.32	4.67	0.179	25981.89
23	323	13.68	12.53	169.27	37.31	237.81	0.27	24985.60	4.61	0.178	25137.62
24	322	13.47	12.34	167.11	36.47	235.54	0.27	24759.19	4.53	0.178	24909.62
25	333	15.32	14.04	181.80	41.19	266.56	0.30	27588.79	4.87	0.179	27746.63
26	332	15.80	14.48	184.70	42.00	271.79	0.30	27958.35	4.96	0.179	28117.99
27	330	15.12	13.86	180.30	40.41	263.13	0.29	27215.78	4.87	0.178	27373.43
28	286	15.03	13.79	177.66	40.14	262.09	0.29	26784.95	4.84	0.150	26932.98
29	247	6.14	5.61	100.91	17.03	104.17	0.12	11967.80	2.74	0.148	12071.35
30	265	4.95	4.51	90.51	14.15	84.15	0.10	10360.22	2.36	0.149	10456.19
31	254	3.87	3.52	81.36	10.97	71.99	0.09	9228.21	2.12	0.149	9318.84
32	241	2.80	2.54	68.88	7.86	58.85	0.08	7929.66	1.58	0.149	8009.01
33	265	2.82	2.55	70.16	7.94	58.97	0.08	8112.89	1.60	0.165	8197.71
34	263	2.21	1.99	65.61	6.33	42.40	0.06	6505.39	1.46	0.165	6587.15
35	266	1.97	1.77	92.25	5.63	38.27	0.05	6338.83	2.23	0.165	6436.85
36	229	1.94	1.75	90.28	5.49	38.08	0.05	6056.34	2.20	0.140	6145.94
37	222	1.37	1.23	85.16	4.37	28.43	0.04	5097.48	2.11	0.140	5185.02
38	222	1.37	1.23	85.16	4.37	28.43	0.04	5097.48	2.11	0.140	5185.02
39	222	1.37	1.23	85.16	4.37	28.43	0.04	5097.48	2.11	0.140	5185.02
40	221	1.37	1.23	85.10	4.37	28.43	0.04	5089.85	2.11	0.139	5177.15
41	221	1.37	1.23	85.10	4.37	28.43	0.04	5089.85	2.11	0.139	5177.15
MAX VALUE (lb/day)	**480**	**17.33**	**15.88**	**264.59**	**49.26**	**305.02**	**0.34**	**32837.9**	**7.25**	**0.281**	**33065.8**

Months for Annual Contruction		Annual Emissions (ton/year)									
		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	12	2.42	2.21	31.89	6.91	41.40	0.04687	4409.99	0.86	0.0341	4438.59
2	13	2.51705	2.30472	33.27	7.22	42.99	0.04884	4591.56	0.90	0.0367	4621.82
3	14	2.50549	2.29431	33.68	7.20	42.68	0.04864	4574.31	0.91	0.0381	4605.32
4	15	2.51980	2.30763	34.53	7.24	42.81	0.04879	4596.87	0.94	0.0389	4628.70
5	16	2.51958	2.30752	35.06	7.24	42.65	0.04868	4590.83	0.96	0.0399	4623.32
6	17	2.51445	2.30280	35.34	7.22	42.44	0.04852	4578.23	0.97	0.0408	4611.18
7	18	2.48813	2.27864	34.78	7.13	41.85	0.04791	4514.09	0.95	0.0405	4546.61
8	19	2.44520	2.23923	33.76	7.00	40.96	0.04699	4414.46	0.92	0.0396	4446.13
9	20	2.41104	2.20791	32.82	6.89	40.33	0.04633	4341.48	0.90	0.0387	4372.30
10	21	2.37922	2.17881	32.34	6.77	39.97	0.04580	4296.19	0.88	0.0376	4326.36
11	22	2.34998	2.15203	31.91	6.66	39.62	0.04533	4256.25	0.87	0.0367	4285.88
12	23	2.32605	2.13026	31.61	6.56	39.45	0.04500	4229.50	0.86	0.0358	4258.68
13	24	2.29937	2.10596	31.28	6.44	39.24	0.04463	4199.81	0.85	0.0350	4228.51
14	25	2.29971	2.10652	31.14	6.40	39.46	0.04465	4204.77	0.85	0.0336	4232.97
15	26	2.29905	2.10607	30.54	6.36	39.50	0.04458	4189.60	0.83	0.0325	4217.05
16	27	2.28285	2.09132	29.44	6.28	39.27	0.04429	4146.55	0.80	0.0312	4172.97
17	28	2.27197	2.08156	28.56	6.22	39.15	0.04407	4112.87	0.77	0.0297	4138.32
18	29	2.14737	1.96730	26.81	5.86	37.01	0.04173	3890.85	0.72	0.0283	3914.83
19	30	2.02560	1.85550	25.29	5.52	34.94	0.03949	3683.76	0.68	0.0273	3706.53
20	31	1.89361	1.73433	24.09	5.16	32.80	0.03714	3476.46	0.65	0.0265	3498.30
21	32	1.74956	1.60204	22.75	4.76	30.51	0.03467	3255.76	0.61	0.0260	3276.59
22	33	1.60162	1.46612	21.40	4.35	28.09	0.03210	3025.36	0.57	0.0258	3045.29
23	34	1.44579	1.32294	20.00	3.92	25.45	0.02930	2774.16	0.53	0.0256	2793.16
24	35	1.29352	1.18299	19.00	3.51	22.85	0.02650	2531.75	0.50	0.0254	2550.05
25	36	1.14363	1.04530	18.00	3.11	20.29	0.02370	2288.61	0.47	0.0249	2306.12
26	37	0.96225	0.87873	16.74	2.63	17.19	0.02035	1996.23	0.43	0.0244	2012.82
27	38	0.77469	0.70648	15.45	2.14	14.03	0.01695	1699.04	0.39	0.0239	1714.69
28	39	0.59601	0.54234	14.21	1.67	10.98	0.01365	1411.50	0.36	0.0234	1426.24
29	40	0.41839	0.37910	13.01	1.21	7.94	0.01041	1129.46	0.32	0.0233	1143.42
30	41	0.35644	0.32216	12.80	1.04	6.95	0.00931	1040.05	0.31	0.0231	1053.79
MAX VALUE (ton/year)		**2.51980**	**2.30763**	**35.34**	**7.24**	**42.99**	**0.04884**	**4596.87**	**0.97**	**0.0408**	**4628.70**

Combustion Exhaust Emissions On-site (annual)

Maximum annual construction on-site exhausted emissions occurs in months 2-13.

Construction Assumptions - 26 days per month

Equipment	Number of Vehicles per year	Hours/Day	Emission rate per piece of equipment (lb/hr)										Annual Emissions (ton/year)										Number of Vehicles (entire construction period)	entire construction period emissions (ton)									
			PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Diesel Construction Equipment																																	
Air Compressor	20	5	0.027	0.025	0.283	0.118	0.239	0.000	22.251	0.011	0.000	22.474	0.03	0.03	0.35	0.15	0.30	0.00	27.77	0.01	0.00	28.05	36	0.06	0.06	0.64	0.26	0.54	0.00	49.99	0.02	0.00	50.49
Asphalt Paver	1	6	0.085	0.078	0.522	0.164	0.968	0.001	69.134	0.015	0.000	69.444	0.01	0.01	0.04	0.01	0.07	0.00	5.30	0.00	0.00	5.33	2	0.01	0.01	0.08	0.03	0.15	0.00	10.61	0.00	0.00	10.65
Backhoe	61	5	0.051	0.047	0.362	0.091	0.566	0.001	51.682	0.008	0.000	51.854	0.19	0.18	1.35	0.34	2.11	0.00	192.62	0.03	0.00	193.26	148	0.47	0.43	3.27	0.82	5.12	0.01	467.35	0.07	0.00	468.90
Compactor	50	5	0.064	0.059	0.417	0.120	0.738	0.001	58.936	0.011	0.000	59.163	0.20	0.18	1.27	0.37	2.25	0.00	180.05	0.03	0.00	180.74	137	0.54	0.49	3.49	1.00	6.17	0.01	493.33	0.09	0.00	495.24
Crane small (Hydraulic Vibrating Post Driver and	180	4	0.054	0.049	0.488	0.121	0.929	0.001	80.272	0.011	0.000	80.502	0.54	0.50	4.91	1.22	9.35	0.01	807.70	0.11	0.00	810.01	439	1.32	1.21	11.96	2.97	22.80	0.02	1969.89	0.27	0.00	1975.52
Crane large	12	6	0.068	0.063	0.662	0.182	1.771	0.002	179.940	0.016	0.000	180.284	0.06	0.06	0.62	0.17	1.66	0.00	168.98	0.02	0.00	169.31	21	0.11	0.10	1.09	0.30	2.91	0.00	295.72	0.03	0.00	296.29
Dozer	9	6	0.078	0.072	0.574	0.205	1.942	0.002	165.982	0.018	0.000	166.371	0.05	0.05	0.40	0.14	1.34	0.00	114.58	0.01	0.00	114.85	19	0.11	0.11	0.84	0.30	2.83	0.00	241.89	0.03	0.00	242.45
Generator	36	7	0.029	0.026	0.292	0.113	0.307	0.000	30.595	0.010	0.000	30.810	0.10	0.09	1.01	0.39	1.06	0.00	105.96	0.04	0.00	106.70	68	0.19	0.17	1.91	0.74	2.01	0.00	200.14	0.07	0.00	201.54
Grader	10	6	0.078	0.072	0.740	0.174	1.352	0.001	123.810	0.016	0.000	124.140	0.06	0.05	0.56	0.13	1.02	0.00	93.35	0.01	0.00	93.60	22	0.13	0.12	1.23	0.29	2.24	0.00	205.38	0.03	0.00	205.92
Light Tower	19	6	0.026	0.024	0.293	0.103	0.278	0.000	27.964	0.009	0.000	28.160	0.04	0.04	0.45	0.16	0.43	0.00	42.82	0.01	0.00	43.12	32	0.07	0.06	0.75	0.27	0.72	0.00	72.13	0.02	0.00	72.63
Loader	120	5	0.056	0.052	0.421	0.149	1.534	0.002	148.843	0.013	0.000	149.126	0.47	0.44	3.54	1.26	12.92	0.01	1253.85	0.11	0.00	1256.23	288	1.14	1.05	8.51	3.02	31.01	0.03	3009.25	0.27	0.00	3014.96
Maxi Sneeker (Trencher)	60	7	0.040	0.037	0.436	0.184	0.362	0.000	32.888	0.017	0.000	33.236	0.22	0.20	2.38	1.00	1.97	0.00	179.57	0.09	0.00	181.47	142	0.52	0.48	5.64	2.37	4.67	0.01	424.98	0.21	0.00	429.48
Skid Steer (Bobcat)	60	6	0.022	0.020	0.250	0.078	0.246	0.000	25.496	0.007	0.000	25.645	0.10	0.10	1.21	0.38	1.19	0.00	123.30	0.03	0.00	124.02	142	0.25	0.23	2.87	0.90	2.82	0.00	291.81	0.08	0.00	293.51
Welding Machine	49	5	0.029	0.027	0.304	0.124	0.273	0.000	25.935	0.011	0.000	26.171	0.08	0.08	0.87	0.36	0.78	0.00	74.34	0.03	0.00	75.02	63	0.11	0.10	1.12	0.46	1.01	0.00	95.58	0.04	0.00	96.45
Equipment fueled with Propane																																	
Aerial Lift	54	5	0.003	0.003	1.417	0.005	0.203	0.000	31.235	0.042	0.000	32.107	0.01	0.01	5.07	0.02	0.73	0.00	111.83	0.15	0.00	114.95	159	0.03	0.03	14.94	0.05	2.14	0.00	329.27	0.44	0.00	338.46
Fork Lift	72	3	0.002	0.002	0.295	0.003	0.121	0.000	18.295	0.024	0.000	18.791	0.00	0.00	0.83	0.01	0.34	0.00	51.37	0.07	0.00	52.76	176	0.01	0.01	2.02	0.02	0.83	0.00	125.57	0.16	0.00	128.98
Telehandler	35	5	0.003	0.003	1.417	0.005	0.203	0.000	31.235	0.042	0.000	32.107	0.01	0.01	3.29	0.01	0.47	0.00	72.48	0.10	0.00	74.50	131	0.02	0.02	12.31	0.04	1.76	0.00	271.28	0.36	0.00	278.86
Vehicles with Onroad Engines for Emissions Estimates																																	
Concrete Delivery Truck for general construction	12	12	0.001	0.001	0.010	0.005	0.023	0.000	2.557	0.000	0.000	2.558	0.00	0.00	0.02	0.01	0.04	0.00	4.79	0.00	0.00	4.79	14	0.00	0.00	0.02	0.01	0.05	0.00	5.58	0.00	0.00	5.59
Concrete Delivery Truck for bridge	0	12	0.001	0.001	0.009	0.004	0.020	0.000	2.324	0.000	0.000	2.325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.01	0.01	0.03	0.00	3.26	0.00	0.00	3.26
Concrete Pump Truck for bridge	0	12	0.001	0.001	0.010	0.005	0.023	0.000	2.557	0.000	0.000	2.558	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.01	0.01	0.02	0.00	2.79	0.00	0.00	2.79
Dump Truck	65	12	0.003	0.002	0.019	0.009	0.041	0.000	4.706	0.000	0.000	4.709	0.03	0.02	0.19	0.09	0.42	0.00	47.72	0.00	0.00	47.75	151	0.06	0.05	0.44	0.21	0.98	0.00	110.86	0.00	0.00	110.92
Flatbed Truck	118	12	0.002	0.002	0.016	0.001	0.028	0.000	4.475	0.000	0.000	4.477	0.03	0.03	0.29	0.02	0.51	0.00	82.38	0.00	0.00	82.41	338	0.09	0.08	0.82	0.07	1.46	0.00	235.97	0.00	0.00	236.06
Staff & Security Truck	72	24	0.000	0.000	0.010	0.000	0.000	0.000	1.587	0.000	0.000	1.604	0.00	0.00	0.23	0.01	0.00	0.00	35.65	0.00	0.00	36.03	246	0.00	0.00	0.78	0.02	0.01	0.00	121.82	0.01	0.00	123.11
Pickup Truck	132	12	0.000	0.000	0.015	0.001	0.001	0.000	2.147	0.000	0.000	2.211	0.00	0.00	0.31	0.02	0.03	0.00	44.22	0.00	0.00	45.54	451	0.02	0.01	1.05	0.07	0.10	0.00	151.07	0.01	0.01	155.58
Water and Road Preparation Materials Truck	75	12	0.015	0.013	0.110	0.052	0.246	0.000	27.889	0.000	0.000	27.903	0.17	0.16	1.29	0.61	2.87	0.00	326.31	0.00	0.00	326.47	158	0.37	0.33	2.71	1.28	6.05	0.01	687.42	0.00	0.00	687.76
General Materials Delivery Truck for general cons	24	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.01	0.00	0.04	0.02	0.08	0.00	9.57	0.00	0.00	9.58	24	0.01	0.00	0.04	0.02	0.08	0.00	9.57	0.00	0.00	9.58
General Materials Delivery Truck for bridge	0	24	0.001	0.001	0.005	0.002	0.010	0.000	1.162	0.000	0.000	1.163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.03	0.01	0.07	0.00	7.98	0.00	0.00	7.98
Steel Piling Delivery Truck	13	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.00	0.00	0.02	0.01	0.05	0.00	5.18	0.00	0.00	5.19	28	0.01	0.01	0.04	0.02	0.10	0.00	11.17	0.00	0.00	11.17
PV Panels Delivery Truck	72	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.02	0.01	0.11	0.05	0.25	0.00	28.71	0.00	0.00	28.73	246	0.05	0.05	0.39	0.18	0.86	0.00	98.11	0.00	0.00	98.16
Tracker Steel Delivery Truck	96	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.02	0.02	0.15	0.07	0.34	0.00	38.29	0.00	0.00	38.31	328	0.07	0.06	0.52	0.24	1.15	0.00	130.81	0.00	0.00	130.88
Suncatcher Delivery Truck	0	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	252	0.05	0.05	0.40	0.19	0.88	0.00	100.50	0.00	0.00	100.55
Electrical and Control Systems Delivery Truck	24	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.01	0.00	0.04	0.02	0.08	0.00	9.57	0.00	0.00	9.58	82	0.02	0.02	0.13	0.06	0.29	0.00	32.70	0.00	0.00	32.72
Tracker Delivery Truck	24	24	0.001	0.001	0.005	0.002	0.011	0.000	1.278	0.000	0.000	1.279	0.01	0.00	0.04	0.02	0.08	0.00	9.57	0.00	0.00	9.58	82	0.02	0.02	0.13	0.06	0.29	0.00	32.70	0.00	0.00	32.72
Water Delivery Trucks	0	24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	3463	24	0.000	0.000	0.002	0.000	0.000	0.000	0.318	0.000	0.000	0.328	0.03	0.03	2.40	0.17	0.22	0.00	343.71	0.03	0.03	353.96	9401	0.09	0.07	6.51	0.45	0.61	0.01	933.06	0.09	0.08	960.89
	5038											**Total**	**2.52**	**2.30**	**33.27**	**7.22**	**42.99**	**0.05**	**4591.56**	**0.90**	**0.04**	**4621.82**		**5.95**	**5.44**	**86.70**	**16.75**	**102.77**	**0.12**	**11229.55**	**2.31**	**0.10**	**11310.05**

Number of Vehicles per year = sum of monthly daily maximum vehicle usage for the peak 12 months
delivery trucks can arrive at the site anytime during the day or night

Calico Solar

Fugitive Dust Emissions (on-site)

To be consistent with on-site exhausted emissions, months 7 was used to represent the daily/monthly construction onsite fugitive dust emissions.
Months 2-13 was selected to represent the maximum annual construction on-site fugitive dust emissions.

Travel on sealed roads (paved)

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
7.4 sL = road surface silt loading (grams per square meter) (g/m^2), from Table 13.2.1-4 for Municipal solid waste landfill
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}
k	0.0024	0.016

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	Number of Vehicles (month 7)	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on sealed roads	Max Daily Distance per Vehicle to drive on sealed roads (mile/day)	Max Daily VMT (all vehicles)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Number of Vehicles per year (months 2-13)	Max Annual VMT (all vehicles)	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Diesel Construction Equipment											
Air Compressor	1	0	0%	0.0	0	0.5	5	20	0	0.004	0.026
Asphalt Paver	0	0.2	0%	0.0	0	25	6	1	0	0.207	1.381
Backhoe	5	0	0%	0.0	0	11	5	61	0	0.090	0.598
Compactor	5	0	0%	0.0	0	10	5	50	0	0.081	0.542
Crane small (Hydraulic Vibrating Post Driver and	15	0.5	0%	0.0	0	10	4	180	0	0.081	0.542
Crane large	3	0.5	0%	0.0	0	35	6	12	0	0.292	1.946
Dozer	1	0	0%	0.0	0	20	6	9	0	0.165	1.100
Generator	3	0	0%	0.0	0	0.5	7	36	0	0.004	0.026
Grader	1	0	0%	0.0	0	20	6	10	0	0.165	1.100
Light Tower	2	0	0%	0.0	0	0.25	6	19	0	0.002	0.013
Loader	10	0	0%	0.0	0	25	5	120	0	0.207	1.381
Maxi Sneeker (Trencher)	5	0	0%	0.0	0	5	7	60	0	0.040	0.267
Skid Steer (Bobcat)	5	0	0%	0.0	0	2	6	60	0	0.016	0.105
Welding Machine	5	0	0%	0.0	0	0.5	5	49	0	0.004	0.026
Equipment fueled with Propane											
Aerial Lift	6	1	50%	0.5	3	4	5	54	702	0.032	0.213
Fork Lift	6	1	50%	0.5	3	3	3	72	936	0.024	0.159
Telehandler	5	1	50%	0.5	3	3	5	35	455	0.024	0.159
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	4.4	0%	0.0	0	20	12	12	0	0.165	1.100
Concrete Delivery Truck for bridge	0	4	0%	0.0	0	20	12	0	0	0.165	1.100
Concrete Pump Truck for bridge	0	4.4	0%	0.0	0	20	12	0	0	0.165	1.100
Dump Truck	5	8.1	40%	3.2	16	20	12	65	5475.6	0.165	1.100
Flatbed Truck	10	16.2	40%	6.5	65	10	12	118	19880.64	0.081	0.542
Staff & Security Truck	6	53	100%	53.0	318	2.25	24	72	99216	0.018	0.118
Pickup Truck	11	16.2	40%	6.5	71	4	12	132	22239.36	0.032	0.213
Water and Road Preparation Materials Truck	5	48	30%	14.4	72	20	12	75	28080	0.165	1.100
General Materials Delivery Truck for general cor	3	4.4	0%	0.0	0	20	24	24	0	0.165	1.100
General Materials Delivery Truck for bridge	0	4	0%	0.0	0	20	24	0	0	0.165	1.100
Steel Piling Delivery Truck	3	4.4	0%	0.0	0	20	24	13	0	0.165	1.100
PV Panels Delivery Truck	6	4.4	0%	0.0	0	20	24	72	0	0.165	1.100
Tracker Steel Delivery Truck	8	4.4	0%	0.0	0	20	24	96	0	0.165	1.100
Suncatcher Delivery Truck	0	4.4	0%	0.0	0	20	24	0	0	0.165	1.100
Electrical and Control Systems Delivery Truck	2	4.4	0%	0.0	0	20	24	24	0	0.165	1.100
Tracker Delivery Truck	2	4.4	0%	0.0	0	20	24	24	0	0.165	1.100
Water Delivery Trucks	0	0	0%	0.0	0	0	24	0	0	0.000	0.000
Worker Passenger Vehicles	340	4.8	10%	0.5	163	2	24	3463	43218.24	0.016	0.105

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Diesel Construction Equipment															
Air Compressor	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small (Hydraulic Vibrating Post Driver and	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane large	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dozer	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welding Machine	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane															
Aerial Lift	0%	0%	0.13	0.13	0.64	0.64	0.31%	0.07	0.07	0.02	0.02	0.10	0.10	0.01	0.01
Fork Lift	0%	0%	0.16	0.16	0.48	0.48	0.23%	0.07	0.07	0.02	0.02	0.07	0.07	0.01	0.01
Telehandler	0%	0%	0.08	0.08	0.40	0.40	0.19%	0.04	0.04	0.01	0.01	0.06	0.06	0.01	0.01
Vehicles with Onroad Engines for Emissions Estimates															
Concrete Delivery Truck for general construction	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	0%	0%	1.48	1.48	17.82	17.82	8.75%	3.01	3.01	0.22	0.22	2.67	2.67	0.45	0.45
Flatbed Truck	0%	0%	2.93	2.93	35.14	35.14	17.26%	5.39	5.39	0.44	0.44	5.27	5.27	0.81	0.81
Staff & Security Truck	0%	0%	1.57	1.57	37.67	37.67	18.49%	5.88	5.88	0.24	0.24	5.65	5.65	0.88	0.88
Pickup Truck	0%	0%	1.27	1.27	15.18	15.18	7.46%	2.37	2.37	0.19	0.19	2.28	2.28	0.36	0.36
Water and Road Preparation Materials Truck	0%	0%	6.60	6.60	79.19	79.19	38.88%	15.44	15.44	0.99	0.99	11.88	11.88	2.32	2.32
General Materials Delivery Truck for general cor	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PV Panels Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tracker Steel Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Suncatcher Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tracker Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Delivery Trucks	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	0%	0%	0.71	0.71	17.14	17.14	8.42%	2.27	2.27	0.11	0.11	2.57	2.57	0.34	0.34
TOTAL Fugitive emissions for vehicles traveled on sealed road (paved)			**14.92**	**14.92**	**203.66**	**203.66**		**34.54**	**34.54**	**2.24**	**2.24**	**30.55**	**30.55**	**5.18**	**5.18**

Travel on paved road

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
1.6 sL = road surface silt loading (grams per square meter) (g/m^2), Rural roads CARB - Emission Inventory Database - Section 7.8 SJV - Entrained Paved Road Dust - Rural Roads
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}
k	0.0024	0.016

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	Number of Vehicles (month 7)	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on paved road	Max Daily Distance per Vehicle to drive on paved road (mile/day)	Max Daily VMT (all vehicles)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Number of Vehicles per year (months 2-13)	Max Annual VMT (all vehicles)	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Diesel Construction Equipment											
Air Compressor	1	0	0%	0	0	0.5	5	20	0	0.001	0.006
Asphalt Paver	0	0.2	0%	0	0	25	6	1	0	0.051	0.343
Backhoe	5	0	0%	0	0	11	5	61	0	0.022	0.148
Compactor	5	0	0%	0	0	10	5	50	0	0.020	0.135
Crane small	15	0.5	0%	0	0	10	4	180	0	0.020	0.135
Crane large	3	0.5	0%	0	0	35	6	12	0	0.072	0.483
Dozer	1	0	0%	0	0	20	6	9	0	0.041	0.273
Generator	3	0	0%	0	0	0.5	7	36	0	0.001	0.006
Grader	1	0	0%	0	0	20	6	10	0	0.041	0.273
Light Tower	2	0	0%	0	0	0.25	6	19	0	0.000	0.003
Loader	10	0	0%	0	0	25	5	120	0	0.051	0.343
Maxi Sneeker (Trencher)	5	0	0%	0	0	5	7	60	0	0.010	0.066
Skid Steer (Bobcat)	5	0	0%	0	0	2	6	60	0	0.004	0.026
Welding Machine	5	0	0%	0	0	0.5	5	49	0	0.001	0.006
Equipment fueled with Propane											
Aerial Lift	6	1	0%	0	0	4	5	54	0	0.008	0.053
Fork Lift	6	1	0%	0	0	3	3	72	0	0.006	0.039
Telehandler	5	1	0%	0	0	3	5	35	0	0.006	0.039
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	4.4	100%	4.4	0	20	12	12	1372.8	0.041	0.273
Concrete Delivery Truck for bridge	0	4	100%	4	0	20	12	0	0	0.041	0.273
Concrete Pump Truck for bridge	0	4.4	100%	4.4	0	20	12	0	0	0.041	0.273
Dump Truck	5	8.1	50%	4.05	20	20	12	65	6844.5	0.041	0.273
Flatbed Truck	10	16.2	50%	8.1	81	10	12	118	24850.8	0.020	0.135
Staff & Security Truck	6	53	0%	0	0	2.25	24	72	0	0.004	0.029
Pickup Truck	11	16.2	50%	8.1	89	4	12	132	27799.2	0.008	0.053
Water and Road Preparation Materials Truck	5	48	10%	4.8	24	20	12	75	9360	0.041	0.273
General Materials Delivery Truck for general cor	3	4.4	100%	4.4	13	20	24	24	2745.6	0.041	0.273
General Materials Delivery Truck for bridge	0	4	100%	4	0	20	24	0	0	0.041	0.273
Steel Piling Delivery Truck	3	4.4	100%	4.4	13	20	24	13	1487.2	0.041	0.273
PV Panels Delivery Truck	6	4.4	100%	4.4	26	20	24	72	8236.8	0.041	0.273
Tracker Steel Delivery Truck	8	4.4	100%	4.4	35	20	24	96	10982.4	0.041	0.273
Suncatcher Delivery Truck	0	4.4	100%	4.4	0	20	24	0	0	0.041	0.273
Electrical and Control Systems Delivery Truck	2	4.4	100%	4.4	9	20	24	24	2745.6	0.041	0.273
Tracker Delivery Truck	2	4.4	100%	4.4	9	20	24	24	2745.6	0.041	0.273
Water Delivery Trucks	0	0	100%	0	0	0	24	0	0	0.000	0.000
Worker Passenger Vehicles	340	4.8	90%	4.32	1469	2	24	3463	388964.16	0.004	0.026

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Diesel Construction Equipment															
Air Compressor	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane large	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dozer	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welding Machine	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane															
Aerial Lift	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fork Lift	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Telehandler	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vehicles with Onroad Engines for Emissions Estimates															
Concrete Delivery Truck for general construction	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.19	0.19	0.00	0.00	0.00	0.00	0.03	0.03
Concrete Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	0%	0%	0.46	0.46	5.53	5.53	5.83%	0.93	0.93	0.07	0.07	0.83	0.83	0.14	0.14
Flatbed Truck	0%	0%	0.91	0.91	10.90	10.90	11.50%	1.67	1.67	0.14	0.14	1.64	1.64	0.25	0.25
Staff & Security Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pickup Truck	0%	0%	0.39	0.39	4.71	4.71	4.97%	0.73	0.73	0.06	0.06	0.71	0.71	0.11	0.11
Water and Road Preparation Materials Truck	0%	0%	0.55	0.55	6.55	6.55	6.91%	1.28	1.28	0.08	0.08	0.98	0.98	0.19	0.19
General Materials Delivery Truck for general cor	0%	0%	0.15	0.15	3.60	3.60	3.80%	0.37	0.37	0.02	0.02	0.54	0.54	0.06	0.06
General Materials Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	0%	0%	0.15	0.15	3.60	3.60	3.80%	0.20	0.20	0.02	0.02	0.54	0.54	0.03	0.03
PV Panels Delivery Truck	0%	0%	0.30	0.30	7.21	7.21	7.60%	1.12	1.12	0.05	0.05	1.08	1.08	0.17	0.17
Tracker Steel Delivery Truck	0%	0%	0.40	0.40	9.61	9.61	10.13%	1.50	1.50	0.06	0.06	1.44	1.44	0.22	0.22
Suncatcher Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	0%	0%	0.10	0.10	2.40	2.40	2.53%	0.37	0.37	0.02	0.02	0.36	0.36	0.06	0.06
Tracker Delivery Truck	0%	0%	0.10	0.10	2.40	2.40	2.53%	0.37	0.37	0.02	0.02	0.36	0.36	0.06	0.06
Water Delivery Trucks	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	0%	0%	1.60	1.60	38.29	38.29	40.39%	5.07	5.07	0.24	0.24	5.74	5.74	0.76	0.76
TOTAL Fugitive emissions for vehicles traveled on paved road			**5.10**	**5.10**	**94.80**	**94.80**		**13.83**	**13.83**	**0.77**	**0.77**	**14.22**	**14.22**	**2.07**	**2.07**

Travel on unpaved surfaces

$E = k * (s/12)^a * (W/3)^b * [(365 - P)/365]$

EPA AP-42 Section 13.2.2 Unpaved Roads Equations 1a and 2
E = size-specific emission factor (lb/VMT)
k, a, b = empirical constants
8.5 s = surface material silt content (%)
W = mean vehicle weight (tons)

Construction sites - Scraper routes

constants

	$PM_{2.5}$	PM_{10}
k	0.15	1.5
a	0.9	0.9
b	0.45	0.45

Industrial Roads

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)

Vehicle Type	Number of Vehicles (month 7)	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on unpaved roads	Max Daily Distance per Vehicle to drive on unpaved roads (mile/day)	Max Daily VMT (all vehicles)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Number of Vehicles per year (months 2-13)	Max Annual VMT (all vehicles)	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Diesel Construction Equipment											
Air Compressor	1	0	100%	0	0	0.5	5	20	0	0.046	0.460
Asphalt Paver	0	0.2	100%	0.2	0	25	6	1	5.2	0.268	2.676
Backhoe	5	0	100%	0	0	11	5	61	0	0.185	1.849
Compactor	5	0	100%	0	0	10	5	50	0	0.177	1.771
Crane small (Hydraulic Vibrating Post Driver and	15	0.5	100%	0.5	8	10	4	180	2340	0.177	1.771
Crane large	3	0.5	100%	0.5	2	35	6	12	156	0.311	3.113
Dozer	1	0	100%	0	0	20	6	9	0	0.242	2.420
Generator	3	0	100%	0	0	0.5	7	36	0	0.046	0.460
Grader	1	0	100%	0	0	20	6	10	0	0.242	2.420
Light Tower	2	0	100%	0	0	0.25	6	19	0	0.034	0.337
Loader	10	0	100%	0	0	25	5	120	0	0.268	2.676
Maxi Sneeker (Trencher)	5	0	100%	0	0	5	7	60	0	0.130	1.297
Skid Steer (Bobcat)	5	0	100%	0	0	2	6	60	0	0.086	0.859
Welding Machine	5	0	100%	0	0	0.5	5	49	0	0.046	0.460
Equipment fueled with Propane											
Aerial Lift	6	1	50%	0.5	3	4	5	54	702	0.117	1.173
Fork Lift	6	1	50%	0.5	3	3	3	72	936	0.103	1.030
Telehandler	5	1	50%	0.5	3	3	5	35	455	0.103	1.030
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	4.4	0%	0	0	20	12	12	0	0.242	2.420
Concrete Delivery Truck for bridge	0	4	0%	0	0	20	12	0	0	0.242	2.420
Concrete Pump Truck for bridge	0	4.4	0%	0	0	20	12	0	0	0.242	2.420
Dump Truck	5	8.1	10%	0.81	4	20	12	65	1368.9	0.242	2.420
Flatbed Truck	10	16.2	10%	1.62	16	10	12	118	4970.16	0.177	1.771
Staff & Security Truck	6	53	0%	0	0	2.25	24	72	0	0.091	0.905
Pickup Truck	11	16.2	10%	1.62	18	4	12	132	5559.84	0.117	1.173
Water and Road Preparation Materials Truck	5	48	60%	28.8	144	20	12	75	56160	0.242	2.420
General Materials Delivery Truck for general cor	3	4.4	0%	0	0	20	24	24	0	0.242	2.420
General Materials Delivery Truck for bridge	0	4	0%	0	0	20	24	0	0	0.242	2.420
Steel Piling Delivery Truck	3	4.4	0%	0	0	20	24	13	0	0.242	2.420
PV Panels Delivery Truck	6	4.4	0%	0	0	20	24	72	0	0.242	2.420
Tracker Steel Delivery Truck	8	4.4	0%	0	0	20	24	96	0	0.242	2.420
Suncatcher Delivery Truck	0	4.4	0%	0	0	20	24	0	0	0.242	2.420
Electrical and Control Systems Delivery Truck	2	4.4	0%	0	0	20	24	24	0	0.242	2.420
Tracker Delivery Truck	2	4.4	0%	0	0	20	24	24	0	0.242	2.420
Water Delivery Trucks	0	0	0%	0	0	0	24	0	0	0.000	0.000
Worker Passenger Vehicles	340	4.8	0%	0	0	2	24	3463	0	0.086	0.859

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Diesel Construction Equipment															
Air Compressor	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paver	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small (Hydraulic Vibrating Post Driver and	0%	83%	3.09	0.53	13.29	2.26	3.05%	2.07	0.35	0.31	0.05	1.33	0.23	0.21	0.04
Crane large	0%	83%	0.78	0.13	4.67	0.79	1.07%	0.24	0.04	0.08	0.01	0.47	0.08	0.02	0.00
Dozer	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Tower	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welding Machine	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment fueled with Propane															
Aerial Lift	0%	83%	0.69	0.12	3.52	0.60	0.81%	0.41	0.07	0.07	0.01	0.35	0.06	0.04	0.01
Fork Lift	0%	83%	1.03	0.18	3.09	0.53	0.71%	0.48	0.08	0.10	0.02	0.31	0.05	0.05	0.01
Telehandler	0%	83%	0.51	0.09	2.58	0.44	0.59%	0.23	0.04	0.05	0.01	0.26	0.04	0.02	0.00
Vehicles with Onroad Engines for Emissions Estimates															
Concrete Delivery Truck for general construction	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Delivery Truck for bridge	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	0%	83%	0.82	0.14	9.80	1.67	2.25%	1.66	0.28	0.08	0.01	0.98	0.17	0.17	0.03
Flatbed Truck	0%	83%	2.39	0.41	28.70	4.88	6.60%	4.40	0.75	0.24	0.04	2.87	0.49	0.44	0.07
Staff & Security Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pickup Truck	0%	83%	1.74	0.30	20.90	3.55	4.80%	3.26	0.55	0.17	0.03	2.09	0.36	0.33	0.06
Water and Road Preparation Materials Truck	0%	83%	29.04	4.94	348.47	59.24	80.11%	67.95	11.55	2.90	0.49	34.85	5.92	6.80	1.16
General Materials Delivery Truck for general cor	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for bridge	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PV Panels Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tracker Steel Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Suncatcher Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tracker Delivery Truck	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Delivery Trucks	0%	83%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	0%	83%	0.00	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 Fugitive emissions for vehicles traveled on unpaved surfaces			**40.08**	**6.81**	**435.01**	**73.95**		**80.72**	**13.72**	**4.01**	**0.68**	**43.50**	**7.40**	**8.07**	**1.37**

Note:

1. It is assumed the project will do watering every 3 hours and limit the onsite vehicle speed to less than 15 mph to mitigate the fugitive dust.
2. "Watering Control Efficiency" and "Limit Maximum Speed Control Efficiency" for unpaved road from SCAQMD CEQA Handbook 2007 - Mitigation Measures and Control Efficiencies (http://www.aqmd.gov/CEQA/handbook/mitigation/fugitive/MM_fugitive.html) - 61% from watering every 3 hours, 57% from limiting speeds to 15 mph, and 83% [=1-(1-0.61)*(1-0.57)] from doing these two mitigation together.

Bulldozing & grading EPA AP-42 Section 11.9

$E = p * 1 * s^{1.5} / M^{1.4}$ PM10 Emissions from bulldozing (lb/hr) Table 11.9-1 EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES (Overburden)

0.75 p = particle size multiplier for PM10
6.9 s = Silt content (%) (from Table 11.9-3 for bulldozers overburden)
7.9 M = Moisture content of surface material (%) (from Table 11.9-3 for bulldozers overburden)
0.75 lb/hr of PM10

$E = p * 5.7 * s^{1.2} / M^{1.3}$ PM2.5 Emissions from bulldozing (lb/hr) Table 11.9-1 EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES (Overburden)

0.105 p = particle size multiplier for PM2.5
6.9 s = Silt content (%) (from Table 11.9-3 for bulldozers overburden)
7.9 M = Moisture content of surface material (%) (from Table 11.9-3 for bulldozers overburden)
0.41 lb/hr of PM2.5

$E = p * 0.051 * S^{2.0}$ PM10 Emissions from grading (lb/VMT) Table 11.9-1 EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES (Overburden)

0.6 p = particle size multiplier for PM10
7.1 S = mean vehicle speed (mph) (from Table 11.9-3 for grader)
1.54 lb/VMT of PM10

$E = p * 0.040 * S^{2.5}$ PM2.5 Emissions from grading (lb/VMT) Table 11.9-1 EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES (Overburden)

0.031 p = particle size multiplier for PM2.5
7.1 S = mean vehicle speed (mph) (from Table 11.9-3 for grader)
0.17 lb/VMT of PM2.5

Equipment	Quantity/ month	Hours/ Day	VMT/day/ vehicle	Watering Control Efficiency	PM10 Emissions (lb/day)	PM2.5 Emissions (lb/day)	Number of Vehicles per year (months 2-13)	VMT/year/ vehicle	PM10 Emissions (ton/yr)	PM2.5 Emissions (ton/yr)
Compactor	5	5	2	83%	2.62	0.28	50	2600	0.341	0.037
Dozer	1	6		83%	0.76	0.42	9		0.088	0.049
Maxi Sneeker (Trencher)	5	7	2	83%	2.62	0.28	60	3120	0.409	0.044
Grader	1	6	4	83%	1.05	0.11	10	1040	0.136	0.015
Skid Steer (Bobcat)	5	6		83%	3.97	2.18	60		0.619	0.340
				Grading Total	**6.29**	**0.68**			**0.89**	**0.10**
				Bulldozing Total	**4.72**	**2.60**			**0.71**	**0.39**
				Total	**11.02**	**3.28**			**1.59**	**0.48**

12 months of earth work
10 total construction hours per work day
26 construction days per month

Watering every 3 hours and limit the onsite vehicle speed to less than 15 mph to mitigate the fugitive dust.

Dirt Piling or Material Handling PM10 Emissions from Material Handling (lb/ton) from EPA AP-42 Chapter 13.2.4 Eq. 1

$E = k * 0.0032 * (U/5)^{1.3} / (M/2)^{1.4}$ E = Emission factor (lb/ton material handled)

7.45 U = Mean Wind speed (mph) (from 1991-1995 Imperial Co. airport data)
12 M = Moisture content of surface material (%) (from Table 13.2.4-1 for cover at municipal landfill)

	$PM_{2.5}$	PM_{10}
k	0.053	0.35

0.00002 lb/ton of PM2.5
0.00015 lb/ton of PM10

Equipment	Quantity/ month	Hours/ Day	Material Handled per Day (ton)	Watering Control Efficiency	PM10 Emissions (lb/day)	PM2.5 Emissions (lb/day)	Number of Vehicles per year (months 2-13)	Material Handled per year (ton)	PM10 Emissions (ton/yr)	PM2.5 Emissions (ton/yr)
Backhoe	5	5	822	83%	0.0214	0.0032	61	512885.925	0.007	0.001
Loader	10	5	822	83%	0.0214	0.0032	120	512885.925	0.007	0.001
Dump Truck	5	12	1,644	83%	0.0428	0.0065	0	1,025,772	0.013	0.002
				Total	**0.09**	**0.01**			**0.03**	**0.00**

Watering every 3 hours and limit the onsite vehicle speed to less than 15 mph to mitigate the fugitive dust.

Assume 50% soil movement from loaders and 50% from backhoes

1,182 yd3/day (approximately 1/2 of the soil movement will be done in this year based on the revised project d 1,644 ton/day
737,700 yd3/project 2781 density of soil (lb/yd3) 1,025,772 tons/project
(USDA NRCS Physical Soil Properties from Imperial County
total project for Niland Fine Sand and Rositas Fine Sand soil)
737,700.00 cubic yds cut based on the revised project description.
2,812.30 total acres disturbed as described based on the revised project description.
only a small portion of this soil is picked up and moved via dump druck

Cover Storage Pile

E = 1.7 * G/1.5 * (365-H)/235 * I/15 * J SCAQMD Table A9-9-E

PM10 Emission factor from wind erosion of storage piles per day per acre

15 G = Silt content (%) (from CEQA Handbook Table A9-9-E-1 for blended ore and dirt)
23 H = Number of days with >= 0.01 inches of precipitation per year (from Daggett FAA Airport Station)
34 I = Percentage of time that the unobstructed wind speed exceeds 12 mph at mean pile height
0.5 J = Fraction of TSP that is PM10 = 0.5
28.039 lb/acre/day

wind speed percentage based on 2005 wind speed data as recorded at Daggett FAA Airport station

Source	Quantity	Size of Pile (acre)	Hours/Day	Days/Year per Pile	Watering Control Efficiency	PM10 Emissions (lb/day)	PM2.5 Emissions (lb/day)	PM10 Emissions (tons/yr)	PM2.5 Emissions (tons/yr)
Cover Storage Pile	2	1	24	182.5	83%	9.53	2.12	0.87	0.19

Watering every 3 hours and limit the onsite vehicle speed to less than 15 mph to mitigate the fugitive dust.
pile size assumed
piles present only for 6 months

Construction on-site fugitive dust PM10

Vehicle Type	Number of Vehicles (month 7)	Max Daily Distance per Vehicle (mile/day)	Month 7 construction on-site fugitive dust: Sealed Road - PM_{10} Fugitive Emissions	Paved Road - PM_{10} Fugitive Emissions	Unpaved Road - PM_{10} Fugitive Emissions	Earthmoving Equipment - PM_{10} Fugitive Emissions	Total PM_{10} Fugitive Emissions	Months 2-13 construction on-site fugitive dust: Sealed Road - PM_{10} Fugitive Emissions	Paved Road - PM_{10} Fugitive Emissions	Unpaved Road - PM_{10} Fugitive Emissions	Earthmoving Equipment - PM_{10} Fugitive Emissions	Total PM_{10} Fugitive Emissions
			lb/day					ton/year				
Diesel Construction Equipment												
Air Compressor	1	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Asphalt Paver	0	0.2	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Backhoe	5	0	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.01	0.01
Compactor	5	0	0.00	0.00	0.00	2.62	2.62	0.00	0.00	0.00	0.34	0.34
Crane small (Hydraulic Vibrating Post Driver and	15	0.5	0.00	0.00	2.26		2.26	0.00	0.00	0.35		0.35
Crane large	3	0.5	0.00	0.00	0.79		0.79	0.00	0.00	0.04		0.04
Dozer	1	0	0.00	0.00	0.00	0.76	0.76	0.00	0.00	0.00	0.09	0.09
Generator	3	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Grader	1	0	0.00	0.00	0.00	1.05	1.05	0.00	0.00	0.00	0.14	0.14
Light Tower	2	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Loader	10	0	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.01	0.01
Maxi Sneeker (Trencher)	5	0	0.00	0.00	0.00	2.62	2.62	0.00	0.00	0.00	0.41	0.41
Skid Steer (Bobcat)	5	0	0.00	0.00	0.00	3.97	3.97	0.00	0.00	0.00	0.62	0.62
Welding Machine	5	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Equipment fueled with Propane												
Aerial Lift	6	1	0.64	0.00	0.60		1.24	0.07	0.00	0.07		0.14
Fork Lift	6	1	0.48	0.00	0.53		1.00	0.07	0.00	0.08		0.16
Telehandler	5	1	0.40	0.00	0.44		0.84	0.04	0.00	0.04		0.08
Vehicles with Onroad Engines for Emissions Estimates												
Concrete Delivery Truck for general construction	0	4.4	0.00	0.00	0.00		0.00	0.00	0.19	0.00		0.19
Concrete Delivery Truck for bridge	0	4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Concrete Pump Truck for bridge	0	4.4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Dump Truck	5	8.1	17.82	5.53	1.67	0.04	25.05	3.01	0.93	0.28	0.01	4.24
Flatbed Truck	10	16.2	35.14	10.90	4.88		50.93	5.39	1.67	0.75		7.81
Staff & Security Truck	6	53	37.67	0.00	0.00		37.67	5.88	0.00	0.00		5.88
Pickup Truck	11	16.2	15.18	4.71	3.55		23.45	2.37	0.73	0.55		3.66
Water and Road Preparation Materials Truck	5	48	79.19	6.55	59.24		144.98	15.44	1.28	11.55		28.27
General Materials Delivery Truck for general cor	3	4.4	0.00	3.60	0.00		3.60	0.00	0.37	0.00		0.37
General Materials Delivery Truck for bridge	0	4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Steel Piling Delivery Truck	3	4.4	0.00	3.60	0.00		3.60	0.00	0.20	0.00		0.20
PV Panels Delivery Truck	6	4.4	0.00	7.21	0.00		7.21	0.00	1.12	0.00		1.12
Tracker Steel Delivery Truck	8	4.4	0.00	9.61	0.00		9.61	0.00	1.50	0.00		1.50
Suncatcher Delivery Truck	0	4.4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Electrical and Control Systems Delivery Truck	2	4.4	0.00	2.40	0.00		2.40	0.00	0.37	0.00		0.37
Tracker Delivery Truck	2	4.4	0.00	2.40	0.00		2.40	0.00	0.37	0.00		0.37
Water Delivery Trucks	0	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Worker Passenger Vehicles	340	4.8	17.14	38.29	0.00		55.43	2.27	5.07	0.00		7.34
Storage piles						9.53	9.53				0.87	0.87
			203.66	**94.80**	**73.95**	**20.63**	**393.04**	**34.54**	**13.83**	**13.72**	**2.49**	**64.58**

Construction on-site fugitive dust PM2.5

Vehicle Type	Number of Vehicles (month 7)	Max Daily Distance per Vehicle (mile/day)	Month 7 construction on-site fugitive dust: Sealed Road - PM2.5 Fugitive Emissions	Paved Road - PM2.5 Fugitive Emissions	Unpaved Road - PM2.5 Fugitive Emissions	Earthmoving Equipment - PM2.5 Fugitive Emissions	Total PM2.5 Fugitive Emissions	Months 2-13 construction on-site fugitive dust: Sealed Road - PM2.5 Fugitive Emissions	Paved Road - PM2.5 Fugitive Emissions	Unpaved Road - PM2.5 Fugitive Emissions	Earthmoving Equipment - PM2.5 Fugitive Emissions	Total PM2.5 Fugitive Emissions
			lb/day					ton/year				
Diesel Construction Equipment												
Air Compressor	1	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Asphalt Paver	0	0.2	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Backhoe	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	5	0	0.00	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.04	0.04
Crane small (Hydraulic Vibrating Post Driver and	15	0.5	0.00	0.00	0.23		0.23	0.00	0.00	0.04		0.04
Crane large	3	0.5	0.00	0.00	0.08		0.08	0.00	0.00	0.00		0.00
Dozer	1	0	0.00	0.00	0.00	0.42	0.42	0.00	0.00	0.00	0.05	0.05
Generator	3	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Grader	1	0	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.01	0.01
Light Tower	2	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Loader	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	5	0	0.00	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.04	0.04
Skid Steer (Bobcat)	5	0	0.00	0.00	0.00	2.18	2.18	0.00	0.00	0.00	0.34	0.34
Welding Machine	5	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Equipment fueled with Propane												
Aerial Lift	6	1	0.10	0.00	0.06		0.16	0.01	0.00	0.01		0.02
Fork Lift	6	1	0.07	0.00	0.05		0.12	0.01	0.00	0.01		0.02
Telehandler	5	1	0.06	0.00	0.04		0.10	0.01	0.00	0.00		0.01
Vehicles with Onroad Engines for Emissions Estimates												
Concrete Delivery Truck for general construction	0	4.4	0.00	0.00	0.00		0.00	0.00	0.03	0.00		0.03
Concrete Delivery Truck for bridge	0	4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Concrete Pump Truck for bridge	0	4.4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Dump Truck	5	8.1	2.67	0.83	0.17	0.01	3.67	0.45	0.14	0.03	0.00	0.62
Flatbed Truck	10	16.2	5.27	1.64	0.49		7.39	0.81	0.25	0.07		1.13
Staff & Security Truck	6	53	5.65	0.00	0.00		5.65	0.88	0.00	0.00		0.88
Pickup Truck	11	16.2	2.28	0.71	0.36		3.34	0.36	0.11	0.06		0.52
Water and Road Preparation Materials Truck	5	48	11.88	0.98	5.92		18.79	2.32	0.19	1.16		3.66
General Materials Delivery Truck for general cor	3	4.4	0.00	0.54	0.00		0.54	0.00	0.06	0.00		0.06
General Materials Delivery Truck for bridge	0	4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Steel Piling Delivery Truck	3	4.4	0.00	0.54	0.00		0.54	0.00	0.03	0.00		0.03
PV Panels Delivery Truck	6	4.4	0.00	1.08	0.00		1.08	0.00	0.17	0.00		0.17
Tracker Steel Delivery Truck	8	4.4	0.00	1.44	0.00		1.44	0.00	0.22	0.00		0.22
Suncatcher Delivery Truck	0	4.4	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Electrical and Control Systems Delivery Truck	2	4.4	0.00	0.36	0.00		0.36	0.00	0.06	0.00		0.06
Tracker Delivery Truck	2	4.4	0.00	0.36	0.00		0.36	0.00	0.06	0.00		0.06
Water Delivery Trucks	0	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Worker Passenger Vehicles	340	4.8	2.57	5.74	0.00		8.31	0.34	0.76	0.00		1.10
Storage piles						2.12	2.12				0.19	0.19
			30.55	**14.22**	**7.40**	**5.40**	**57.57**	**5.18**	**2.07**	**1.37**	**0.68**	**9.31**

Calico Solar

Combustion Exhaust Emissions Off-site (short-term)

To be consistent with on-site emissions, months 7 was used to represent the daily/monthly construction off-site (on-road) emissions.

construction schedule = 12 hours per day 7 am to 7 pm pedestal installation = 16 hours per day

delivery trucks can arrive at the site anytime during the day or night

EMISSION FACTORS

				Emission factors (g/mile)											Emission rate per piece of equipment (lb/hr)									
Vehicles with Onroad Engines for Emissions Estimates	Off-site Miles per Day Travelled within MDAQMD jurisdictional area per Vehicle	**Hours/Day**	**Vehicle Weight (lbs)**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**ROG**	**NO_x**	**SO_2**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**ROG**	**NO_x**	**SO_2**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Concrete Delivery Truck for general construction	74	12	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.50E-03	6.38E-03	4.11E-02	8.99E-03	2.04E-01	2.17E-04	2.27E+01	6.93E-05	6.52E-05	2.27E+01
Concrete Delivery Truck for bridge	74	12	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.50E-03	6.38E-03	4.11E-02	8.99E-03	2.04E-01	2.17E-04	2.27E+01	6.93E-05	6.52E-05	2.27E+01
Concrete Pump Truck for bridge	0	12	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Dump Truck	0	12	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Flatbed Truck	0	12	20,000	2.02E-01	1.71E-01	1.37E+00	1.44E-01	7.50E+00	1.40E-02	1.51E+03	1.10E-03	1.70E-03	1.51E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Staff & Security Truck	0	24	4,500	1.00E-02	1.00E-02	2.10E+00	5.50E-02	3.00E-02	4.00E-03	3.26E+02	1.57E-02	1.01E-02	3.30E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pickup Truck	0	12	8,000	3.20E-02	1.77E-02	2.58E+00	7.70E-02	3.09E-01	3.00E-03	2.93E+02	7.04E-02	6.47E-02	3.15E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Water and Road Preparation Materials Truck	0	12	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
General Materials Delivery Truck for general cons	74	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	3.75E-03	3.19E-03	2.05E-02	4.50E-03	1.02E-01	1.09E-04	1.13E+01	3.46E-05	3.26E-05	1.14E+01
General Materials Delivery Truck for bridge	74	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	3.75E-03	3.19E-03	2.05E-02	4.50E-03	1.02E-01	1.09E-04	1.13E+01	3.46E-05	3.26E-05	1.14E+01
Steel Piling Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
PV Panels Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
Tracker Steel Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
Suncatcher Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
Electrical and Control Systems Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
Tracker Delivery Truck	156	24	40,000	5.52E-01	4.70E-01	3.02E+00	6.62E-01	1.50E+01	1.60E-02	1.67E+03	5.10E-03	4.80E-03	1.67E+03	7.90E-03	6.73E-03	4.33E-02	9.48E-03	2.15E-01	2.29E-04	2.39E+01	7.30E-05	6.87E-05	2.39E+01
Water Delivery Trucks	0	24	-	2.02E-01	1.71E-01	1.37E+00	1.44E-01	7.50E+00	1.40E-02	1.51E+03	1.10E-03	1.70E-03	1.51E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Worker Passenger Vehicles	74	24	4,000	3.20E-02	1.77E-02	2.58E+00	7.70E-02	3.09E-01	3.00E-03	2.93E+02	7.04E-02	6.47E-02	3.15E+02	2.17E-04	1.20E-04	1.75E-02	5.23E-04	2.10E-03	2.04E-05	1.99E+00	4.78E-04	4.39E-04	2.14E+00

Notes:

1. Onroad vehicle emissions from EMFAC2007 model. The vehicle description in EMFAC2007 model are as follows:
   - Flatbed Truck and Water Delivery Truck are Medium-Heavy-Duty (MHD-DSL).
   - Staff & Security Truck (gasoline) is Light-Duty (LDT2-CAT)
   - Worker Passenger Vehicle and Pickup Truck are Passenger Car (LDA-ALL)
   - Delivery Truck are all Heavy-Heavy-Duty (HHD-DSL)
2. The emissions of "Toyota Highlander Hybrid" (Staff & Security Truck) meet the Tier 2/Bin 3 Federal emissions standard (reference source 3) and its performance is 27 mile/gallon in city (from Toyota website)
3. SO_2 emission factors for the Toyota Highlander Hybrid are from EMFAC2007- Light-Duty Trucks (LDT2-CAT).
4. CH_4 and N_2O emission factors for the running vehicles are from Reference source 1: Table C.4, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009. Hybrid Truck is assumed to be gasoline light truck here.
5. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)

   CO_2 GWP (SAR, 1996) = 1

   CH_4 GWP (SAR, 1996) = 21

   N_2O GWP (SAR, 1996) = 310

MONTHLY EMISSIONS (month 1-20)

	Month 1 Daily Emissions (lb/day)										
	Quantity Mo 1	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	3.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	2.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	5.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	67.00	0.35	0.19	28.22	0.84	3.37	0.03	3,203.62	0.77	0.71	3,438.80
Total	**114.00**	**3.94**	**3.25**	**47.91**	**5.15**	**101.17**	**0.14**	**14,081.43**	**0.80**	**0.74**	**14,327.00**

	Month 2 Daily Emissions (lb/day)										
	Quantity Mo 2	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.54	0.46	2.96	0.65	14.69	0.02	1,633.88	0.00	0.00	1,635.44
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	7.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	9.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	12.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	180.00	0.94	0.52	75.81	2.26	9.07	0.09	8,606.74	2.07	1.90	9,238.58
Total	**252.00**	**5.16**	**4.12**	**98.95**	**7.32**	**124.00**	**0.21**	**21,390.75**	**2.10**	**1.93**	**22,034.79**

	Month 3 Daily Emissions (lb/day)										
	Quantity Mo 3	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.54	0.46	2.96	0.65	14.69	0.02	1,633.88	0.00	0.00	1,635.44
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	7.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	9.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	8.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	249.00	1.30	0.72	104.87	3.13	12.54	0.12	11,906.00	2.86	2.63	12,780.03
Total	**317.00**	**5.52**	**4.32**	**128.01**	**8.19**	**127.47**	**0.24**	**24,690.00**	**2.90**	**2.66**	**25,576.24**

	Month 4 Daily Emissions (lb/day)										
	Quantity Mo 4	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	6.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	8.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	219.00	1.14	0.63	92.24	2.75	11.03	0.11	10,471.54	2.51	2.31	11,240.27
Total	**284.00**	**5.40**	**4.25**	**115.54**	**7.85**	**126.76**	**0.23**	**23,343.86**	**2.55**	**2.35**	**24,124.88**

MONTHLY EMISSIONS (month 21-41)

	Month 21 Daily Emissions (lb/day)										
	Quantity Mo 21	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	5.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	5.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	209.00	1.09	0.60	88.03	2.62	10.53	0.10	9,993.39	2.40	2.20	10,727.01
Total	**267.00**	**5.07**	**4.00**	**109.85**	**7.40**	**118.91**	**0.22**	**22,048.77**	**2.44**	**2.24**	**22,793.91**

	Month 22 Daily Emissions (lb/day)										
	Quantity Mo 22	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	5.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	5.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
Total	**266.00**	**5.07**	**3.99**	**109.43**	**7.39**	**118.86**	**0.22**	**22,000.96**	**2.42**	**2.23**	**22,742.58**

	Month 23 Daily Emissions (lb/day)										
	Quantity Mo 23	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	5.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	3.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
Total	**264.00**	**5.07**	**3.99**	**109.43**	**7.39**	**118.86**	**0.22**	**22,000.96**	**2.42**	**2.23**	**22,742.58**

	Month 24 Daily Emissions (lb/day)										
	Quantity Mo 24	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Concrete Pump Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Dump Truck	5.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-
Water and Road Preparation Materials Truck	3.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-
Steel Piling Delivery Truck	3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
PV Panels Delivery Truck	6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
Tracker Steel Delivery Truck	8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
Suncatcher Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Electrical and Control Systems Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Tracker Delivery Truck	2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
Total	**264.00**	**5.07**	**3.99**	**109.43**	**7.39**	**118.86**	**0.22**	**22,000.96**	**2.42**	**2.23**	**22,742.58**

Month 5 Daily Emissions (lb/day)

Quantity Mo 5	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
-	-	-	-	-	-	-	-	-	-	-
3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
219.00	1.14	0.63	92.24	2.75	11.03	0.11	10,471.54	2.51	2.31	11,240.27
282.00	**5.40**	**4.25**	**115.54**	**7.85**	**126.76**	**0.23**	**23,343.86**	**2.55**	**2.35**	**24,124.88**

Month 6 Daily Emissions (lb/day)

Quantity Mo 6	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
-	-	-	-	-	-	-	-	-	-	-
3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
320.00	1.67	0.93	134.78	4.02	16.12	0.16	15,300.88	3.67	3.37	16,424.14
381.00	**5.92**	**4.55**	**158.08**	**9.12**	**131.84**	**0.28**	**28,173.20**	**3.71**	**3.41**	**29,308.75**

Month 7 Daily Emissions (lb/day)

Quantity Mo 7	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
-	-	-	-	-	-	-	-	-	-	-
3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
340.00	1.77	0.98	143.20	4.27	17.12	0.17	16,257.18	3.90	3.59	17,450.64
401.00	**6.03**	**4.60**	**166.50**	**9.37**	**132.85**	**0.29**	**29,129.51**	**3.94**	**3.62**	**30,335.26**

Month 8 Daily Emissions (lb/day)

Quantity Mo 8	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
-	-	-	-	-	-	-	-	-	-	-
1.00	0.19	0.16	1.04	0.23	5.16	0.01	574.07	0.00	0.00	574.61
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
330.00	1.72	0.95	138.99	4.14	16.62	0.16	15,779.03	3.79	3.48	16,937.39
389.00	**5.59**	**4.25**	**160.21**	**8.79**	**122.03**	**0.27**	**27,503.22**	**3.82**	**3.51**	**28,672.78**

Month 25 Daily Emissions (lb/day)

Quantity Mo 25	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
4.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
3.00	0.57	0.48	3.12	0.68	15.48	0.02	1,722.20	0.01	0.00	1,723.84
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
270.00	**5.34**	**4.22**	**110.91**	**7.71**	**126.20**	**0.22**	**22,817.90**	**2.43**	**2.23**	**23,560.30**

Month 26 Daily Emissions (lb/day)

Quantity Mo 26	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
4.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
268.00	**4.77**	**3.74**	**107.79**	**7.03**	**110.72**	**0.21**	**21,095.70**	**2.42**	**2.23**	**21,836.46**

Month 27 Daily Emissions (lb/day)

Quantity Mo 27	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
267.00	**4.77**	**3.74**	**107.79**	**7.03**	**110.72**	**0.21**	**21,095.70**	**2.42**	**2.23**	**21,836.46**

Month 28 Daily Emissions (lb/day)

Quantity Mo 28	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
223.00	**4.55**	**3.62**	**90.10**	**6.50**	**108.60**	**0.19**	**19,087.46**	**1.94**	**1.78**	**19,680.79**

Month 9 Daily Emissions (lb/day)

Quantity Mo 9	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
334.00	1.74	0.97	140.67	4.19	16.82	0.16	15,970.29	3.83	3.52	17,142.69
392.00	**5.43**	**4.10**	**160.86**	**8.61**	**117.07**	**0.27**	**27,120.42**	**3.87**	**3.55**	**28,303.46**

Month 10 Daily Emissions (lb/day)

Quantity Mo 10	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
360.00	**5.00**	**3.79**	**147.16**	**7.92**	**108.26**	**0.25**	**24,916.84**	**3.53**	**3.25**	**25,997.31**

Month 11 Daily Emissions (lb/day)

Quantity Mo 11	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
360.00	**5.00**	**3.79**	**147.16**	**7.92**	**108.26**	**0.25**	**24,916.84**	**3.53**	**3.25**	**25,997.31**

Month 12 Daily Emissions (lb/day)

Quantity Mo 12	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
360.00	**5.00**	**3.79**	**147.16**	**7.92**	**108.26**	**0.25**	**24,916.84**	**3.53**	**3.25**	**25,997.31**

Month 29 Daily Emissions (lb/day)

Quantity Mo 29	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.54	0.46	2.96	0.65	14.69	0.02	1,633.88	0.00	0.00	1,635.44
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
219.00	**4.91**	**3.92**	**92.07**	**6.93**	**118.40**	**0.20**	**20,176.71**	**1.94**	**1.79**	**20,771.09**

Month 30 Daily Emissions (lb/day)

Quantity Mo 30	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
1.00	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.54	0.46	2.96	0.65	14.69	0.02	1,633.88	0.00	0.00	1,635.44
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
242.00	**9.07**	**7.47**	**114.88**	**11.93**	**231.68**	**0.32**	**32,776.72**	**1.98**	**1.82**	**33,383.13**

Month 31 Daily Emissions (lb/day)

Quantity Mo 31	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
1.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
235.00	**8.53**	**7.01**	**111.92**	**11.28**	**216.99**	**0.30**	**31,142.84**	**1.98**	**1.82**	**31,747.69**

Month 32 Daily Emissions (lb/day)

Quantity Mo 32	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
230.00	**8.26**	**6.78**	**110.44**	**10.95**	**209.64**	**0.30**	**30,325.90**	**1.97**	**1.81**	**30,929.97**

Month 13 Daily Emissions (lb/day)										
Quantity Mo 13	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
357.00	1.86	1.03	150.36	4.48	17.98	0.17	17,070.04	4.10	3.76	18,323.18
412.00	**5.28**	**3.94**	**169.06**	**8.58**	**110.88**	**0.27**	**27,403.23**	**4.13**	**3.79**	**28,666.23**

Month 14 Daily Emissions (lb/day)										
Quantity Mo 14	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
341.00	1.78	0.99	143.62	4.28	17.17	0.17	16,305.00	3.91	3.60	17,501.97
396.00	**5.19**	**3.89**	**162.33**	**8.37**	**110.07**	**0.27**	**26,638.19**	**3.94**	**3.63**	**27,845.02**

Month 15 Daily Emissions (lb/day)										
Quantity Mo 15	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
347.00	1.81	1.00	146.15	4.36	17.48	0.17	16,591.89	3.98	3.66	17,809.92
402.00	**5.22**	**3.91**	**164.85**	**8.45**	**110.38**	**0.27**	**26,925.08**	**4.01**	**3.69**	**28,152.97**

Month 16 Daily Emissions (lb/day)										
Quantity Mo 16	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
332.00	1.73	0.96	139.83	4.17	16.72	0.16	15,874.66	3.81	3.50	17,040.04
387.00	**5.15**	**3.87**	**158.54**	**8.26**	**109.62**	**0.26**	**26,207.85**	**3.84**	**3.53**	**27,383.09**

Month 17 Daily Emissions (lb/day)										
Quantity Mo 17	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
325.00	1.70	0.94	136.88	4.08	16.37	0.16	15,539.96	3.73	3.43	16,680.76
380.00	**5.11**	**3.85**	**155.59**	**8.17**	**109.27**	**0.26**	**25,873.14**	**3.76**	**3.46**	**27,023.81**

Month 33 Daily Emissions (lb/day)										
Quantity Mo 33	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
254.00	**8.39**	**6.85**	**120.55**	**11.26**	**210.85**	**0.31**	**31,473.47**	**2.25**	**2.07**	**32,161.78**

Month 34 Daily Emissions (lb/day)										
Quantity Mo 34	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
254.00	**8.39**	**6.85**	**120.55**	**11.26**	**210.85**	**0.31**	**31,473.47**	**2.25**	**2.07**	**32,161.78**

Month 35 Daily Emissions (lb/day)										
Quantity Mo 35	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
254.00	**8.39**	**6.85**	**120.55**	**11.26**	**210.85**	**0.31**	**31,473.47**	**2.25**	**2.07**	**32,161.78**

Month 36 Daily Emissions (lb/day)										
Quantity Mo 36	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
217.00	**8.20**	**6.74**	**104.96**	**10.79**	**208.99**	**0.29**	**29,704.30**	**1.82**	**1.68**	**30,262.74**

Month 37 Daily Emissions (lb/day)										
Quantity Mo 37	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
212.00	**8.20**	**6.74**	**104.96**	**10.79**	**208.99**	**0.29**	**29,704.30**	**1.82**	**1.68**	**30,262.74**

Month 18 Daily Emissions (lb/day)										
Quantity Mo 18	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
280.00	1.46	0.81	117.93	3.51	14.10	0.14	13,388.27	3.21	2.95	14,371.12
335.00	**4.87**	**3.72**	**136.63**	**7.61**	**107.00**	**0.24**	**23,721.46**	**3.24**	**2.98**	**24,714.17**

Month 19 Daily Emissions (lb/day)										
Quantity Mo 19	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
247.00	1.29	0.71	104.03	3.10	12.44	0.12	11,810.37	2.83	2.60	12,677.38
302.00	**4.70**	**3.62**	**122.74**	**7.19**	**105.34**	**0.22**	**22,143.55**	**2.87**	**2.63**	**23,020.43**

Month 20 Daily Emissions (lb/day)										
Quantity Mo 20	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
-	-	-	-	-	-	-	-	-	-	-
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
226.00	1.18	0.65	95.19	2.84	11.38	0.11	10,806.25	2.59	2.38	11,599.55
281.00	**4.59**	**3.56**	**113.89**	**6.93**	**104.28**	**0.21**	**21,139.43**	**2.62**	**2.41**	**21,942.60**

Month 38 Daily Emissions (lb/day)										
Quantity Mo 38	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
212.00	**8.20**	**6.74**	**104.96**	**10.79**	**208.99**	**0.29**	**29,704.30**	**1.82**	**1.68**	**30,262.74**

Month 39 Daily Emissions (lb/day)										
Quantity Mo 39	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
212.00	**8.20**	**6.74**	**104.96**	**10.79**	**208.99**	**0.29**	**29,704.30**	**1.82**	**1.68**	**30,262.74**

Month 40 Daily Emissions (lb/day)										
Quantity Mo 40	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
152.00	0.79	0.44	64.02	1.91	7.66	0.07	7,267.92	1.74	1.60	7,801.46
211.00	**8.19**	**6.74**	**104.54**	**10.78**	**208.94**	**0.29**	**29,656.49**	**1.81**	**1.67**	**30,211.41**

Month 41 Daily Emissions (lb/day)										
Quantity Mo 41	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.14	0.97	6.23	1.36	30.97	0.03	3,444.40	0.01	0.01	3,447.68
8.00	1.52	1.29	8.31	1.82	41.29	0.04	4,592.53	0.01	0.01	4,596.91
21.00	3.98	3.39	21.82	4.78	108.38	0.12	12,055.38	0.04	0.03	12,066.89
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
2.00	0.38	0.32	2.08	0.45	10.32	0.01	1,148.13	0.00	0.00	1,149.23
-	-	-	-	-	-	-	-	-	-	-
152.00	0.79	0.44	64.02	1.91	7.66	0.07	7,267.92	1.74	1.60	7,801.46
211.00	**8.19**	**6.74**	**104.54**	**10.78**	**208.94**	**0.29**	**29,656.49**	**1.81**	**1.67**	**30,211.41**

Monthly Comparison of Construction Equipment Emissions:

Month of Contruction	Total Equipment Quantity	Daily Emissions (lb/day) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	114	3.94	3.25	47.91	5.15	101.17	0.14	14081.43	0.80	0.738	14327.00
2	252	5.16	4.12	98.95	7.32	124.00	0.21	21390.75	2.10	1.935	22034.79
3	317	5.52	4.32	128.01	8.19	127.47	0.24	24690.00	2.90	2.663	25576.24
4	284	5.40	4.25	115.54	7.85	126.76	0.23	23343.86	2.55	2.347	24124.88
5	282	5.40	4.25	115.54	7.85	126.76	0.23	23343.86	2.55	2.347	24124.88
6	381	5.92	4.55	158.08	9.12	131.84	0.28	28173.20	3.71	3.412	29308.75
7	401	6.03	4.60	166.50	9.37	132.85	0.29	29129.51	3.94	3.623	30335.26
8	389	5.59	4.25	160.21	8.79	122.03	0.27	27503.22	3.82	3.514	28672.78
9	392	5.43	4.10	160.86	8.61	117.07	0.27	27120.42	3.87	3.554	28303.46
10	360	5.00	3.79	147.16	7.92	108.26	0.25	24916.84	3.53	3.246	25997.31
11	360	5.00	3.79	147.16	7.92	108.26	0.25	24916.84	3.53	3.246	25997.31
12	360	5.00	3.79	147.16	7.92	108.26	0.25	24916.84	3.53	3.246	25997.31
13	412	5.28	3.94	169.06	8.58	110.88	0.27	27403.23	4.13	3.795	28666.23
14	396	5.19	3.89	162.33	8.37	110.07	0.27	26638.19	3.94	3.626	27845.02
15	402	5.22	3.91	164.85	8.45	110.38	0.27	26925.08	4.01	3.689	28152.97
16	387	5.15	3.87	158.54	8.26	109.62	0.26	26207.85	3.84	3.531	27383.09
17	380	5.11	3.85	155.59	8.17	109.27	0.26	25873.14	3.76	3.457	27023.81
18	335	4.87	3.72	136.63	7.61	107.00	0.24	23721.46	3.24	2.983	24714.17
19	302	4.70	3.62	122.74	7.19	105.34	0.22	22143.55	2.87	2.635	23020.43
20	281	4.59	3.56	113.89	6.93	104.28	0.21	21139.43	2.62	2.413	21942.60
21	267	5.07	4.00	109.85	7.40	118.91	0.22	22048.77	2.44	2.239	22793.91
22	266	5.07	3.99	109.43	7.39	118.86	0.22	22000.96	2.42	2.228	22742.58
23	264	5.07	3.99	109.43	7.39	118.86	0.22	22000.96	2.42	2.228	22742.58
24	264	5.07	3.99	109.43	7.39	118.86	0.22	22000.96	2.42	2.228	22742.58
25	270	5.34	4.22	110.91	7.71	126.20	0.22	22817.90	2.43	2.231	23560.30
26	268	4.77	3.74	107.79	7.03	110.72	0.21	21095.70	2.42	2.226	21836.46
27	267	4.77	3.74	107.79	7.03	110.72	0.21	21095.70	2.42	2.226	21836.46
28	223	4.55	3.62	90.10	6.50	108.60	0.19	19087.46	1.94	1.783	19680.79
29	219	4.91	3.92	92.07	6.93	118.40	0.20	20176.71	1.94	1.786	20771.09
30	242	9.07	7.47	114.88	11.93	231.68	0.32	32776.72	1.98	1.822	33383.13
31	235	8.53	7.01	111.92	11.28	216.99	0.30	31142.84	1.98	1.817	31747.69
32	230	8.26	6.78	110.44	10.95	209.64	0.30	30325.90	1.97	1.815	30929.97
33	254	8.39	6.85	120.55	11.26	210.85	0.31	31473.47	2.25	2.068	32161.78
34	254	8.39	6.85	120.55	11.26	210.85	0.31	31473.47	2.25	2.068	32161.78
35	254	8.39	6.85	120.55	11.26	210.85	0.31	31473.47	2.25	2.068	32161.78
36	217	8.20	6.74	104.96	10.79	208.99	0.29	29704.30	1.82	1.678	30262.74
37	212	8.20	6.74	104.96	10.79	208.99	0.29	29704.30	1.82	1.678	30262.74
38	212	8.20	6.74	104.96	10.79	208.99	0.29	29704.30	1.82	1.678	30262.74
39	212	8.20	6.74	104.96	10.79	208.99	0.29	29704.30	1.82	1.678	30262.74
40	211	8.19	6.74	104.54	10.78	208.94	0.29	29656.49	1.81	1.667	30211.41
41	211	8.19	6.74	104.54	10.78	208.94	0.29	29656.49	1.81	1.667	30211.41
MAX VALUE (lb/day)	**412**	**9.07**	**7.47**	**169.06**	**11.93**	**231.68**	**0.32**	**32776.7**	**4.13**	**3.795**	**33383.1**

Months for Annual Contruction		Annual Emissions (ton/year) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	**12**	0.82	0.64	20.71	1.25	18.65	0.038	3815.85	0.48	0.4403	3962.40
2	**13**	0.84	0.65	22.29	1.29	18.78	0.040	3989.03	0.52	0.4800	4148.81
3	**14**	0.84	0.64	23.11	1.31	18.60	0.040	4057.25	0.55	0.5020	4224.34
4	**15**	0.84	0.64	23.59	1.31	18.37	0.041	4086.30	0.56	0.5154	4257.84
5	**16**	0.83	0.63	24.15	1.32	18.15	0.041	4123.54	0.58	0.5308	4300.20
6	**17**	0.83	0.63	24.67	1.32	17.92	0.041	4156.42	0.59	0.5452	4337.88
7	**18**	0.82	0.62	24.39	1.30	17.60	0.041	4098.54	0.59	0.5396	4278.15
8	**19**	0.80	0.60	23.82	1.27	17.24	0.040	4007.73	0.57	0.5268	4183.06
9	**20**	0.79	0.60	23.22	1.25	17.01	0.039	3925.00	0.56	0.5125	4095.57
10	**21**	0.78	0.59	22.55	1.23	17.04	0.038	3859.07	0.54	0.4954	4023.94
11	**22**	0.78	0.60	22.06	1.22	17.17	0.038	3821.16	0.52	0.4821	3981.63
12	**23**	0.78	0.60	21.57	1.22	17.31	0.038	3783.25	0.51	0.4689	3939.32
13	**24**	0.79	0.60	21.08	1.21	17.45	0.037	3745.35	0.50	0.4557	3897.01
14	**25**	0.79	0.61	20.33	1.20	17.65	0.037	3685.74	0.47	0.4353	3830.63
15	**26**	0.78	0.60	19.62	1.18	17.66	0.036	3613.68	0.45	0.4171	3752.52
16	**27**	0.77	0.60	18.88	1.16	17.66	0.035	3537.90	0.43	0.3981	3670.41
17	**28**	0.77	0.60	17.99	1.14	17.65	0.034	3445.34	0.41	0.3754	3570.28
18	**29**	0.76	0.60	17.16	1.12	17.77	0.033	3371.28	0.38	0.3536	3488.99
19	**30**	0.82	0.65	16.88	1.18	19.39	0.034	3489.00	0.37	0.3386	3601.69
20	**31**	0.87	0.69	16.74	1.23	20.84	0.035	3605.99	0.36	0.3279	3715.14
21	**32**	0.92	0.73	16.69	1.29	22.21	0.037	3725.42	0.35	0.3202	3831.98
22	**33**	0.96	0.77	16.83	1.34	23.40	0.038	3847.94	0.35	0.3179	3953.76
23	**34**	1.00	0.81	16.98	1.39	24.60	0.039	3971.08	0.34	0.3159	4076.21
24	**35**	1.05	0.85	17.12	1.44	25.80	0.040	4094.22	0.34	0.3138	4198.66
25	**36**	1.09	0.88	17.06	1.48	26.97	0.041	4194.37	0.33	0.3066	4296.42
26	**37**	1.12	0.91	16.99	1.52	28.04	0.042	4283.89	0.33	0.2994	4383.55
27	**38**	1.17	0.95	16.95	1.57	29.32	0.043	4395.80	0.32	0.2923	4493.09
28	**39**	1.21	0.99	16.91	1.62	30.60	0.044	4507.71	0.31	0.2852	4602.64
29	**40**	1.26	1.03	17.10	1.67	31.90	0.045	4645.11	0.31	0.2837	4739.53
30	**41**	1.30	1.07	17.26	1.72	33.08	0.046	4768.35	0.31	0.2822	4862.26
MAX VALUE (ton/year)		**1.30**	**1.07**	**24.67**	**1.72**	**33.08**	**0.05**	**4768.35**	**0.59**	**0.5452**	**4862.26**

Monthly Comparison of Construction Equipment Emissions (onsite and offsite combined)

Daily Emissions (lb/day) PM10	PM2.5	CO	ROG	NOx	SO2	CO2	CH4	N2O	CO2e
11.47	10.14	133.96	26.14	227.58	0.28	27321.68	2.89	0.82	27636.63
21.90	19.43	298.53	54.07	417.52	0.53	51843.74	7.21	2.10	52645.88
20.79	18.28	327.20	51.30	398.27	0.55	53481.11	8.14	2.87	54542.25
21.28	18.80	319.90	52.89	410.04	0.55	53184.44	7.98	2.54	54137.83
21.51	19.02	330.14	53.94	411.81	0.55	53359.39	8.35	2.53	54320.35
22.27	19.52	408.18	55.69	420.59	0.60	59396.99	10.54	3.67	60755.32
23.36	20.48	418.81	58.63	437.87	0.63	61967.43	10.81	3.89	63401.06
22.10	19.38	404.33	56.00	405.15	0.59	58024.17	10.51	3.78	59415.70
22.07	19.35	371.43	57.06	390.93	0.59	56440.72	9.63	3.82	57827.08
21.45	18.85	354.47	55.53	380.02	0.56	53816.89	9.22	3.49	55092.96
20.52	18.00	339.56	53.29	359.69	0.54	51960.20	8.81	3.49	53227.61
20.52	18.00	339.56	53.29	359.69	0.54	51960.20	8.81	3.49	53227.61
20.57	17.94	361.50	53.01	360.11	0.57	54610.18	9.34	4.08	56069.84
21.04	18.41	393.40	53.43	379.15	0.57	55764.05	10.26	3.90	57187.18
21.59	18.90	429.45	54.63	391.47	0.58	57452.04	11.27	3.96	58917.30
21.02	18.40	403.58	53.33	380.73	0.57	55583.60	10.57	3.79	56981.98
20.83	18.25	391.67	52.63	378.07	0.56	54919.45	10.22	3.72	56286.15
19.19	16.83	343.64	47.87	350.11	0.51	50011.31	8.89	3.21	51193.37
18.73	16.46	296.91	46.39	341.87	0.49	47317.87	7.56	2.84	48357.21
18.48	16.27	285.59	45.49	339.56	0.48	46046.61	7.26	2.60	47006.39
19.27	17.00	283.62	46.60	364.34	0.49	47884.73	7.10	2.42	48783.66
19.27	17.00	283.15	46.59	364.29	0.49	47829.28	7.09	2.41	48724.47
18.75	16.53	278.69	44.70	356.67	0.49	46986.55	7.03	2.41	47880.20
18.53	16.33	276.53	43.86	354.39	0.48	46760.14	6.96	2.41	47652.21
20.66	18.27	292.71	48.90	392.76	0.52	50406.68	7.30	2.41	51306.93
20.57	18.22	292.49	49.03	382.51	0.51	49054.05	7.38	2.40	49954.45
19.89	17.59	288.09	47.44	373.85	0.50	48311.48	7.29	2.40	49209.89
19.58	17.40	267.76	46.64	370.70	0.48	45872.40	6.78	1.93	46613.77
11.05	9.53	192.98	23.96	222.57	0.32	32144.52	4.68	1.93	32842.43
14.03	11.98	205.39	26.08	315.82	0.42	43136.94	4.35	1.97	43839.32
12.41	10.53	193.28	22.25	288.98	0.39	40371.05	4.09	1.97	41066.52
11.06	9.32	179.32	18.81	268.49	0.37	38255.56	3.56	1.96	38938.98
11.21	9.40	190.71	19.20	269.82	0.39	39586.36	3.85	2.23	40359.49
10.60	8.84	186.16	17.59	253.26	0.37	37978.86	3.70	2.23	38748.93
10.35	8.62	212.80	16.88	249.12	0.36	37812.29	4.48	2.23	38598.63
10.13	8.49	195.24	16.28	247.07	0.34	35760.64	4.03	1.82	36408.68
9.57	7.97	190.12	15.16	237.42	0.33	34801.79	3.93	1.82	35447.75
9.57	7.97	190.12	15.16	237.42	0.33	34801.79	3.93	1.82	35447.75
9.57	7.97	190.12	15.16	237.42	0.33	34801.79	3.93	1.82	35447.75
9.56	7.97	189.65	15.15	237.36	0.33	34746.34	3.92	1.81	35388.56
9.56	7.97	189.65	15.15	237.36	0.33	34746.34	3.92	1.81	35388.56
23.36	**20.48**	**429.45**	**58.63**	**437.87**	**0.63**	**61967.43**	**11.27**	**4.08**	**63401.06**

Annual Emissions (ton/year) PM10	PM2.5	CO	ROG	NOx	SO2	CO2	CH4	N2O	CO2e
3.24	2.85	52.60	8.16	60.05	0.08	8225.84	1.34	0.47	8400.99
3.359	2.952	55.56	8.51	61.77	0.0884	8580.59	1.42	0.52	8770.63
3.35	2.94	56.79	8.50	61.27	0.0890	8631.56	1.46	0.54	8829.66
3.358	2.946	58.12	8.546	61.18	0.0894	8683.18	1.50	0.55	8886.54
3.35	2.94	59.21	8.552	60.80	0.0897	8714.37	1.54	0.57	8923.51
3.35	2.93	60.01	8.53	60.36	0.0899	8734.65	1.56	0.59	8949.07
3.31	2.90	59.17	8.43	59.45	0.0887	8612.63	1.54	0.58	8824.76
3.25	2.84	57.58	8.27	58.20	0.0869	8422.19	1.50	0.57	8629.19
3.20	2.80	56.04	8.14	57.35	0.0854	8266.48	1.45	0.55	8467.87
3.16	2.77	54.90	8.00	57.00	0.08	8155.25	1.42	0.53	8350.31
3.13	2.75	53.97	7.89	56.80	0.08	8077.41	1.39	0.52	8267.52
3.11	2.73	53.18	7.77	56.76	0.08	8012.76	1.37	0.50	8198.00
3.08	2.71	52.36	7.65	56.69	0.08	7945.16	1.35	0.49	8125.52
3.09	2.71	51.47	7.60	57.11	0.08	7890.51	1.32	0.47	8063.60
3.08	2.71	50.15	7.54	57.16	0.08	7803.28	1.28	0.45	7969.58
3.06	2.69	48.32	7.45	56.93	0.08	7684.45	1.23	0.43	7843.38
3.04	2.68	46.55	7.36	56.80	0.08	7558.21	1.18	0.41	7708.59
2.91	2.57	43.97	6.99	54.78	0.08	7262.13	1.11	0.38	7403.82
2.84	2.50	42.17	6.70	54.33	0.07	7172.77	1.05	0.37	7308.22
2.76	2.43	40.82	6.39	53.64	0.07	7082.46	1.00	0.35	7213.44
2.67	2.34	39.44	6.04	52.72	0.07	6981.17	0.96	0.35	7108.57
2.56	2.24	38.23	5.69	51.49	0.07	6873.30	0.91	0.34	6999.05
2.45	2.13	36.97	5.31	50.05	0.07	6745.24	0.87	0.34	6869.37
2.34	2.03	36.12	4.95	48.65	0.07	6625.97	0.84	0.34	6748.71
2.23	1.93	35.06	4.59	47.25	0.06	6482.98	0.80	0.33	6602.54
2.09	1.79	33.73	4.15	45.23	0.06	6280.12	0.76	0.32	6396.37
1.94	1.66	32.40	3.71	43.35	0.06	6094.84	0.71	0.32	6207.79
1.81	1.53	31.12	3.29	41.57	0.06	5919.21	0.67	0.31	6028.88
1.68	1.41	30.11	2.88	39.84	0.06	5774.57	0.63	0.31	5882.95
1.66	1.39	30.06	2.77	40.03	0.06	5808.40	0.62	0.31	5916.05
3.36	**2.95**	**60.01**	**8.55**	**61.77**	**0.0899**	**8734.65**	**1.56**	**0.59**	**8949.07**

Combustion Exhaust Emissions Off-site (annual)

To be consistency to on-site emissions, months 2-13 was used to represent the annual construction off-site (on-road) emissions.
Construction Assumptions - 26 days per month

Equipment	Number of Vehicles per year	Hours/Day	Emission rate per piece of equipment (lb/hr)										Annual Emissions (ton/year)										Number of Vehicles (entire construction period)	entire construction period emissions (ton)									
			PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
Vehicles with Onroad Engines for Emissions Estimates																																	
Concrete Delivery Truck for general construction	12	12	0.007	0.006	0.041	0.009	0.204	0.000	22.693	0.000	0.000	22.714	0.01	0.01	0.08	0.02	0.38	0.00	42.48	0.00	0.00	42.52	14	0.02	0.01	0.09	0.02	0.45	0.00	49.56	0.00	0.00	49.61
Concrete Delivery Truck for bridge	0	12	0.007	0.006	0.041	0.009	0.204	0.000	22.693	0.000	0.000	22.714	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.01	0.01	0.06	0.01	0.29	0.00	31.86	0.00	0.00	31.89
Concrete Pump Truck for bridge	0	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	65	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	118	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staff & Security Truck	72	24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	246	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pickup Truck	132	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water and Road Preparation Materials Truck	75	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for general cons	24	24	0.004	0.003	0.021	0.004	0.102	0.000	11.346	0.000	0.000	11.357	0.03	0.02	0.15	0.03	0.76	0.00	84.96	0.00	0.00	85.04	24	0.03	0.02	0.15	0.03	0.76	0.00	84.96	0.00	0.00	85.04
General Materials Delivery Truck for bridge	0	24	0.004	0.003	0.021	0.004	0.102	0.000	11.346	0.000	0.000	11.357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	0.03	0.02	0.14	0.03	0.70	0.00	77.88	0.00	0.00	77.96
Steel Piling Delivery Truck	13	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.03	0.03	0.18	0.04	0.87	0.00	97.02	0.00	0.00	97.11	28	0.07	0.06	0.38	0.08	1.88	0.00	208.96	0.00	0.00	209.16
PV Panels Delivery Truck	72	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.18	0.15	0.97	0.21	4.83	0.01	537.33	0.00	0.00	537.84	246	0.61	0.52	3.32	0.73	16.51	0.02	1835.86	0.01	0.01	1837.62
Tracker Steel Delivery Truck	96	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.24	0.20	1.30	0.28	6.44	0.01	716.43	0.00	0.00	717.12	328	0.81	0.69	4.43	0.97	22.01	0.02	2447.82	0.01	0.01	2450.15
Suncatcher Delivery Truck	0	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	252	0.62	0.53	3.40	0.75	16.91	0.02	1880.64	0.01	0.01	1882.44
Electrical and Control Systems Delivery Truck	24	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.06	0.05	0.32	0.07	1.61	0.00	179.11	0.00	0.00	179.28	82	0.20	0.17	1.11	0.24	5.50	0.01	611.95	0.00	0.00	612.54
Tracker Delivery Truck	24	24	0.008	0.007	0.043	0.009	0.215	0.000	23.919	0.000	0.000	23.942	0.06	0.05	0.32	0.07	1.61	0.00	179.11	0.00	0.00	179.28	82	0.20	0.17	1.11	0.24	5.50	0.01	611.95	0.00	0.00	612.54
Water Delivery Trucks	0	24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	3463	24	0.000	0.000	0.018	0.001	0.002	0.000	1.992	0.000	0.000	2.139	0.23	0.13	18.96	0.57	2.27	0.02	2152.59	0.52	0.47	2310.62	9401	0.64	0.35	51.47	1.53	6.16	0.06	5843.64	1.40	1.29	6272.63
												Total	**0.84**	**0.65**	**22.29**	**1.29**	**18.78**	**0.04**	**3989.03**	**0.52**	**0.48**	**4148.81**		**3.23**	**2.56**	**65.67**	**4.64**	**76.65**	**0.13**	**13685.10**	**1.43**	**1.31**	**14121.57**

Number of Vehicles per year = sum of monthly daily maximum vehicle usage for the peak 12 months
delivery trucks can arrive at the site anytime during the day or night

Calico Solar
Fugitive Dust Emissions (offsite)
To be consistent to on-site emissions, months 7 was used to represent the daily/month construction off-site (on-road) emissions.
To be consistent to on-site emissions, months 2-13 was used to represent the annual construction off-site (on-road) emissions.

Travel on paved road

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
0.02 sL = road surface silt loading (grams per square meter) (g/m^2), Freeway Local Streets & Freeways (emission inventory code: 640-641-5400-0000), July 1997
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}
k	0.0024	0.016

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	Number of Vehicles (month 7)	Number of Vehicles per year (months 2-13)	Max Daily Offsite Round-trip Distance per Vehicle within MDAQMD Jurisdictional Area (mile/day)	Max Daily VMT (all vehicles)	Max Annual VMT (all vehicles)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Max. Operating Days / Month	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Vehicles with Onroad Engines for Emissions Estimates										
Concrete Delivery Truck for general construction	0	12	74	0	23088	20	12	26	0.001	0.005
Concrete Delivery Truck for bridge	0	0	74	0	0	20	12	26	0.001	0.005
Concrete Pump Truck for bridge	0	0	0	0	0	20	12	26	0.001	0.005
Dump Truck	5	65	0	0	0	20	12	26	0.001	0.005
Flatbed Truck	10	118	0	0	0	10	12	26	0.000	0.002
Staff & Security Truck	6	72	0	0	0	2.25	24	26	0.000	0.001
Pickup Truck	11	132	0	0	0	4	12	26	0.000	0.001
Water and Road Preparation Materials Truck	5	75	0	0	0	20	12	26	0.001	0.005
General Materials Delivery Truck for general construc	3	24	74	222	46176	20	24	26	0.001	0.005
General Materials Delivery Truck for bridge	0	0	74	0	0	20	24	26	0.001	0.005
Steel Piling Delivery Truck	3	13	156	468	52728	20	24	26	0.001	0.005
PV Panels Delivery Truck	6	72	156	936	292032	20	24	26	0.001	0.005
Tracker Steel Delivery Truck	8	96	156	1248	389376	20	24	26	0.001	0.005
Suncatcher Delivery Truck	0	0	156	0	0	20	24	26	0.001	0.005
Electrical and Control Systems Delivery Truck	2	24	156	312	97344	20	24	26	0.001	0.005
Tracker Delivery Truck	2	24	156	312	97344	20	24	26	0.001	0.005
Water Delivery Trucks	0	0	0	0	0	0	24	26	0.000	0.000
Worker Passenger Vehicles	340	3463	74	25160	6662812	2	24	26	0.000	0.000

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Vehicles with Onroad Engines for Emissions Estimates															
Concrete Delivery Truck for general construction	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.06	0.06	0.00	0.00	0.00	0.00	0.01	0.01
Concrete Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Concrete Pump Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staff & Security Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pickup Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water and Road Preparation Materials Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Materials Delivery Truck for general construc	0%	0%	0.05	0.05	1.12	1.12	3.76%	0.12	0.12	0.01	0.01	0.17	0.17	0.02	0.02
General Materials Delivery Truck for bridge	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel Piling Delivery Truck	0%	0%	0.10	0.10	2.37	2.37	7.93%	0.13	0.13	0.01	0.01	0.36	0.36	0.02	0.02
PV Panels Delivery Truck	0%	0%	0.20	0.20	4.74	4.74	15.86%	0.74	0.74	0.03	0.03	0.71	0.71	0.11	0.11
Tracker Steel Delivery Truck	0%	0%	0.26	0.26	6.32	6.32	21.15%	0.99	0.99	0.04	0.04	0.95	0.95	0.15	0.15
Suncatcher Delivery Truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electrical and Control Systems Delivery Truck	0%	0%	0.07	0.07	1.58	1.58	5.29%	0.25	0.25	0.01	0.01	0.24	0.24	0.04	0.04
Tracker Delivery Truck	0%	0%	0.07	0.07	1.58	1.58	5.29%	0.25	0.25	0.01	0.01	0.24	0.24	0.04	0.04
Water Delivery Trucks	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Passenger Vehicles	0%	0%	0.51	0.51	12.16	12.16	40.72%	1.61	1.61	0.08	0.08	1.82	1.82	0.24	0.24
TOTAL Fugitive emissions for vehicle travel offsite paved roads			**1.24**	**1.24**	**29.87**	**29.87**		**4.14**	**4.14**	**0.19**	**0.19**	**4.48**	**4.48**	**0.62**	**0.62**

Number of Vehicles per year = sum of monthly daily maximum vehicle usage for the peak 12 months
delivery trucks can arrive at the site anytime during the day or night

Calico Solar Project
Appendix B
Operational Emissions
(Feb. 15, 2011)

Table B-4
Estimated Daily Maximum Operational Emissions of Criteria Pollutants(lbs/day)

Activity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x
On-Site Operational Emissions						
On-Site Combustion Emissions						
Diesel Generator	0.01	0.01	0.10	0.04	1.14	0.03
Maintenance & Security Vehicles and Equipment	0.33	0.27	96.75	17.02	5.21	0.13
Worker Vehicles	0.09	0.06	3.67	0.22	0.34	0.01
Visitor Cars and Delivery Trucks	0.03	0.03	0.56	0.13	0.57	0.00
Subtotal of On-site Combustion Emissions	**0.46**	**0.38**	**101.08**	**17.42**	**7.25**	**0.17**
On-Site Fugitive Emissions						
Maintenance & Security Vehicles and Equipment	236.26	28.13				
Worker Vehicles	2.34	0.57				
Visitor Cars and Delivery Trucks	0.74	0.18				
Gasoline Tank				5.49		
Subtotal of On-Site Fugitive Emissions	**239.34**	**28.88**	**0.00**	**5.49**	**0.00**	**0.00**
Subtotal of On-Site Emissions	**239.80**	**29.27**	**101.08**	**22.92**	**7.25**	**0.17**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	0.65	0.36	31.83	0.85	3.67	0.06
Visitor Cars and Delivery Trucks	0.44	0.33	7.50	0.54	8.81	0.02
Subtotal of Off-Site Combustion Emissions	**1.09**	**0.69**	**39.34**	**1.39**	**12.48**	**0.09**
Off-Site Paved Road Fugitive Emissions						
Worker Vehicles	7.98	1.96				
Visitor Cars and Delivery Trucks	4.84	1.19				
Subtotal of Off-Site Fugitive Emissions	**12.82**	**3.15**				
Subtotal of Off-Site Emissions	**13.91**	**3.83**	**39.34**	**1.39**	**12.48**	**0.09**
Total Maximum Emissions	**253.71**	**33.10**	**140.41**	**24.30**	**19.74**	**0.26**

Table B-5
Estimated Annual Maximum Operational Emissions of Criteria Pollutants (tons/year)

Activity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x
On-Site Operational Emissions						
On-Site Combustion Emissions						
Diesel Generator	0.0001	0.0001	0.0006	0.0002	0.0068	0.0002
Maintenance & Security Vehicles and Equipment	0.05	0.04	14.10	2.39	0.83	0.02
Worker Vehicles	0.02	0.01	0.66	0.04	0.06	0.00
Visitor Cars and Delivery Trucks	0.00	0.00	0.05	0.01	0.02	0.00
Subtotal of On-site Combustion Emissions	**0.06**	**0.05**	**14.81**	**2.44**	**0.92**	**0.02**
On-Site Fugitive Emissions						
Maintenance & Security Vehicles and Equipment	31.95	3.90				
Worker Vehicles	0.42	0.10				
Visitor Cars and Delivery Trucks	0.04	0.01				
Gasoline Tank				1.00		
Subtotal of On-Site Fugitive Emissions	**32.41**	**4.01**	**0.00**	**1.00**	**0.00**	**0.00**
Subtotal of On-Site Emissions	**32.47**	**4.07**	**14.81**	**3.44**	**0.92**	**0.02**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	0.12	0.06	5.73	0.15	0.66	0.01
Visitor Cars and Delivery Trucks	0.02	0.02	0.79	0.03	0.33	0.00
Subtotal of Off-Site Combustion Emissions	**0.14**	**0.08**	**6.52**	**0.18**	**0.99**	**0.01**
Off-Site Paved Road Fugitive Emissions						
Worker Vehicles	1.44	0.35				
Visitor Cars and Delivery Trucks	0.28	0.07				
Subtotal of Off-Site Fugitive Emissions	**1.71**	**0.42**				
Subtotal of Off-Site Emissions	**1.85**	**0.50**	**6.52**	**0.18**	**0.99**	**0.01**
Total Maximum Emissions	**34.33**	**4.57**	**21.33**	**3.62**	**1.91**	**0.03**

Table B-5

Estimated Annual Maximum Operational Greenhouse Gases Emissions (metric tonnes/year)

Activity	CO_2	CH_4	N_2O	SF_6	CO_2e
On-Site Operational Emissions					
On-Site Combustion Emissions					
Diesel Generator	0.81	0.00	0.00	0.00	0.82
Maintenance & Security Vehicles and Equipment	1,140.06	0.21	0.07	0.00	1,072.72
Worker Vehicles	145.01	0.01	0.01	0.00	149.13
Visitor Cars and Delivery Trucks	10.91	0.00	0.00	0.00	11.16
Potential sulfur hexafluoride (SF_6) emissions leakage emissions from proposed circuit breakers and other transmissions system equipment				0.02	384.42
Subtotal of On-Site Emissions	**1,296.79**	**0.22**	**0.08**	**0.02**	**1,618.24**
Off-Site On-Road Emissions					
Off-Site Combustion Emissions					
Worker Vehicles	990.04	0.23	0.21	0.00	1,059.28
Visitor Cars and Delivery Trucks	160.67	0.03	0.03	0.00	169.58
Subtotal of Off-Site Emissions	**1,150.71**	**0.26**	**0.23**	0.00	**1,228.86**
Total Maximum Emissions	**2,447.50**	**0.48**	**0.31**	**0.02**	**2,847.10**

Calico Solar

Emissions from Emergency Diesel Generator

Rated Horsepower	**335**	**BHP**
Testing duration	**20**	**min/month**
Yearly testing	**12**	**month/year**
Expected non-emergency usage	**4**	**hr/yr**

Pollutant	Emision Factor	Emission Rate	Emission Rate per Testing	Yearly Emissions	Hourly Emission Rate	Annual Emission Rate
	g/HP/Hr	lb/hr	lb	lb/yr	g/s	g/s
NO_X	4.61	3.41	1.14	13.63	0.143	1.96E-04
CO	0.39	0.29	0.10	1.15	0.012	1.66E-05
VOC (Total Hydrocarbons)	0.15	0.11	0.04	0.44	0.005	6.38E-06
SO_X	0.12	0.09	0.03	0.35	0.004	5.10E-06
PM_{10}	0.06	0.04	0.01	0.18	0.002	2.55E-06
$PM_{2.5}$	0.06	0.04	0.01	0.18	0.002	2.55E-06
CO_2		447.54	149.18	1790.15	18.797	2.57E-02
CH_4		0.02	0.01	0.07	0.001	1.01E-06
N_2O		0.004	0.0015	0.02	0.0002	2.54E-07
CO_2e		449.28	149.76	1797.10	18.870	2.58E-02

Engine parameters

Flow Rate (acfm)	1218	17.726	m/s
Exhaust Temp (degrees C)	465	738.15	K
Stack Diameter (feet)	0.6667	0.2032	m
Stack height (feet) above ground	6.5	1.981	m
Fuel Use (gal/hr)[2]	20	20.000	gal/hr

Note:

1. The stack will be in outdoor enclosures, not in buildings.
2. Fuel use value is based on the engine parameter data in CARB Table 1 of "Risk Management Guidance for the Permitting of New Stationary Diesel-Fueled Engines", Oct 2000.
3. Emission rates for the criteria pollutant are based on vendor data (to meet Tier 3 requirements).
4. Greenhouse gas emission factors from CCAR General Reporting Protocol V3.1 January 2009 Tables C.7 and C.9
5. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)

   - CO_2 GWP (SAR, 1996) = 1
   - CH_4 GWP (SAR, 1996) = 21
   - N_2O GWP (SAR, 1996) = 310

6. PM2.5 emissions are assumed to be the same as the PM10 emissions

Calico Solar

Equipment =	5000-gal above ground storage tank
Fuel =	Gasoline
Dimension=	88" W x 299" L x 67" H
Throughput (gal/year) =	100,000
Days of Operations (days/year) =	365

	TOG Emission Factor[2]	TOG Emissions[1]	
Description	**(lbs/1000 gal)**	**(tons/Year)**	**(lbs/day)**
Working Loss[3]		0.409	2.242
Breathing Loss[3]		0.536	2.935
Vehicle Refueling - Vapor Displacement	0.74	0.037	0.203
Vehicle Refueling - Spillage	0.42	0.021	0.115
Total Vehicle Refueling		0.058	0.318
Total TOG Emissions		**1.003**	**5.495**

Note:

1. Emission estimate based on 120,000 gallon per year tank throughput.
2. Emission factors from CARB Emission Inventory Estimation Guidelines Section 4.10 GASOLINE DISPENSING FACILITIES (Revised May 1999)
3. Emission estimates from EPA Tank4.0.9d model results

Calico Solar

Estimated maximum potential sulfur hexafluoride (SF_6) emissions leakage emissions from proposed circuit breakers and other transmissions system equipment

Breaker	Qty	Typical Make	Typical Model	SF6 Lbs/Bkr	Leakage Rate	Leakage Lbs/Yr (per Bkr)	Leakage Lbs/Yr (All Bkrs)	CO_2e emissions (metric tons/Yr)
34.5kV Solar Group Breaker (3000A)	6	GE-Hitachi HVB	HS Series	31	1%	0.31	1.86	20.16
242kV Power Circuit Breaker (2000A)	8	GE-Hitachi HVB	HP Series	240	1%	2.4	19.2	208.14
242kV Coupling Capacitor Voltage Transformer (900A)	6	GE-Hitachi HVB	HP Series	240	1%	2.4	14.4	156.11
							CO_2e emissions (metric tons/Yr)	384.42

Note:

Greenhouse Gas Global Warming Potentials (GWPs) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)

Greenhouse Gas	GWP (SAR, 1996)
SF_6	23,900

OPERATIONS AND MAINTENANCE VEHICLES REQUIREMENTS

Description	Activity	Make / Model	Fuel	Quantity	Frequency	Horse-power	Vehicle Weight (tons)	Assumed idle time on site during washing & maintaining the suncatchers per vehicle (idle hr/day)	Max Daily Onsite Distance per Vehicle (mile/day)	Assumed distance percentage to drive on paved main access road	Assumed distance percentage to drive on onsite unimproved PV access paths	Assumed distance percentage to drive on onsite sealed roads	Max Daily Offsite Round-trip Distance per Vehicle within MDAQMD jurisdictional area (mile/day)	Travel to and from	Max Daily Total Distance per Vehicle (mile/day)	Max. Operating Hours / Day	Max. Operating Days / Month
Suncatcher Washing Vehicle	Mirror Washing	12 ton Truck	Gasoline	6	Daily	225	12	4.0	6.8	10%	0%	90%	0	on-site only	6.8	8	30
LRU Maintenance Truck with Boom	Field Servicing & Maintenance	10 ton Truck	Gasoline	6	Daily	200	10	4.0	6.8	10%	0%	90%	0	on-site only	6.8	8	30
PV Module Washing Truck	Washing PV Panels and Spraying Water on the unpaved road	Pickup truck	Gasoline	24	Daily, 5 days a week	250	4	4.0	48	10%	50%	40%	0	on-site only	48	10	22
Water Trucks	All onsite water will be provided by onsite well	3700 gal truck	Gasoline	4	Daily	300	11.7		16.2	50%	0%	50%	0	on-site only	16.2	12	30
Security/General Site Work Truck	Site Inspections & Security	Toyota Highlander or similar	Gasoline - Hybrid	7	Daily	187	2.25		53	10%	0%	90%	0	on-site only	53	24	30
Skid-Steer Loader	Minor grading and utility use	Bobcat or equivalent	Gasoline	1	Daily, 5 days a week	90	4		48	10%	60%	30%	0	on-site only	48	12	22
Four Wheel ATV	Utility use	Fuel Injected CARB Certified	Gasoline	10	Daily, 5 days a week	40	0.3		48	10%	60%	30%	0	on-site only	48	10	22
Rubber-wheeled forklift with telescoping boom	SunCatcher PCU & Mirror Maintenance	Telehandler	Propane	1	Daily	50	4		6.8	10%	0%	90%	0	on-site only	6.8	8	30
Forklift	Warehousing of supplies (indoor only)		Propane	1	Daily	50	3		10	100%	0%	0%	0	on-site only	10	8	30
Telescoping Man Lift	Facility Maintenance and SunCatcher PCU & Mirror Maintenance		Propane	2	Daily	50	3		6.8	10%	0%	90%	0	on-site only	6.8	8	30
Staff Cars	Community to Work	Passenger vehicles	Gasoline & diesel	120	Daily	100	2		4.4	95%	0%	5%	74	Barstow	78.4	2	30
Van Pooling		Passenger Truck/Van	Gasoline	5	Daily	150	4		4.4	100%	0%	0%	74	Barstow	78.4	2	30
Visitor Cars	Sales, Deliveries, Services	Passenger vehicles	Gasoline & diesel	10	Daily, 5 days a week	100	2		4.4	95%	0%	5%	156	LA	160.4	8	22
Delivery Trucks	Operations and Maintenance Supplies	5 ton Cargo	Diesel	1	Weekly	200	5		4.4	100%	0%	0%	99	Barstow/ LA	103.4	2	5
	Waste Management	20 ton	Diesel	1	Weekly	250	20		4.4	100%	0%	0%	130	Class III sites	134.4	2	5
	Hazardous Waste	20 ton	Diesel	1	Weekly	250	20		4.4	100%	0%	0%	156	Class I sites	160.4	2	5
Transport Tractor Trailers	Spare Parts, Building Supplies, Temporary Rental Equipment	40-foot	Diesel	1	Weekly	250	20		4.4	95%	0%	5%	99	Barstow/ LA	103.4	2	5

Note:

1. **Bold** are offroad equipment
2. All other vehicles and equipment will use on-road engines
3. Average distance from main service complex to center of suncatcher portion (north site) is 3.4 miles. Thus, the average round trip distance for suncatcher washing vehicle and LRU truck travels is 6.8 miles.
4. Average distance from the Project site entrance to the Main Service Complex is about 2.2 miles.
5. The fenceline perimeter is approximately 30 miles. Each security vehicle is assumed to travel from the MSC to the site entrance (2.2 miles), and around the perimeter plus one trip to the center of north fenced property (3.4 miles) and the center of southwest fenced property (4.7 miles) and back (and plus additional 10% for misc trips) = approximately 53 miles.
6. 70% of the time the Project will get the supplies from Barstow, CA area and 30% of the time the Project will get the supplies from elsewhere (notably the Los Angeles Basin).
7. The distance from the Project site to Barstow is approximately 37 miles.
8. The distance from the Project site to the edge of the MDAQMD jurisdictional area toward LA is about 78 miles.
9. Two CLASS I waste sites are: (1) Clean Harbors Buttonwillow Landfill (Solid Waste Facility) Lokern Road Kern County, CA - 214 miles to Solar One site; (2) Chemical Waste Management Kettleman Hills Landfill (Solids Waste Facility) 36251 Old Skyline Road Kettleman City, CA 93239 - 240 miles to Solar One site. Information is from the AFC Table 5.14-1.
10. The distance from the Project site to the edge of the MDAQMD jurisdictional area toward the Class I waste sites is about 78 miles.
11. Average distance to the Class III waste site is about 65 miles (within the MDAQMD jurisdictional area). It is assumed half of the general solid waste will go to the disposal site in Barstow and the other half will go to the other Class III waste sites listed in the AFC Table 5.14-1.
12. There are three kinds of roads. The first is the main plant access road, which is an asphalt paved road. The second type is a dirt road, sealed with Solitac or equivalent. Most of the roads on site are of this type. The roads between suncatcher rows are of this type. The third type is not a road at all, but rather an unimproved access path between the rows of PV panels. These paths remain entirely unimproved. These paths are only 70 feet long, and dead-end at the main tracker drive shaft. Hence vehicle traffic in these paths must travel very slowly (5 mph), and vehicles must back out. Speeds will be very low. The largest vehicle to enter these paths will be a standard sized pickup truck, equipped with a water tank, hose reel and spray wand. The truck operator will park at one or two places along the access lane, get out, and manually spray multiple PV panels with the spray wand. However, for most inspections and minor maintenance tasks, smaller ATV type vehicles will be used instead of pickup trucks. These ATVs are more maneuverable, and cause less soil disturbance.
13. Estimated the daily maximum driving distance is 48 miles for PV Module Washing Trucks, Skid-Steer Loaders, and Four Wheel ATVs.
14. Each rubber-wheeled forklift with telescoping boom and telescoping Man Lift is assumed one trip to the center of suncatcher portion in the north fenced property (3.4 miles) and back. So the daily maximum driving distance is estimated to be 6.8 miles.
15. The forklift will only to be used indoor and in the MSC area. Estimated the max. driiving distance per day is 10 miles.
16. Each water truck is assumed one trip to the center of north fenced property (3.4 miles) and the center of southwest fenced property (4.7 miles) and back. So the daily maximum driving distance is estimated to be 16.2 miles.

Calico Solar - Operation and Maintenance Equipment Emissions (on-site)

Emission Factors For Combustion Exhaust Emissions

Equipment Description	Horse-power	Vehicle Weight (lbs)	Fuel	Emission Factors (unit: g/mile or g/idle-hr for on-road vehicle, lb/hr for off-road equipment, g/bhp-hr for locomotive)									
				PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle				Emission factors (g/mile or g/idle-hr)									
Suncatcher Washing Vehicle (running)	225	24,000	Gasoline	0.032	0.015	0.497	0.041	0.117	0.016	1672.267	0.104	0.081	1699.64
Suncatcher Washing Vehicle (idling)	225	24,000	Gasoline	0.000	0.000	155.230	27.137	1.790	0.049	4776.900	0.296	0.232	4855.10
LRU Maintenance Truck with Boom (running)	200	20,000	Gasoline	0.032	0.015	0.497	0.041	0.117	0.016	1672.267	0.104	0.081	1699.64
LRU Maintenance Truck with Boom (idling)	200	20,000	Gasoline	0.000	0.000	155.230	27.137	1.790	0.049	4776.900	0.296	0.232	4855.10
PV Module Washing Truck (running)	250	8,000	Gasoline	0.032	0.015	0.497	0.041	0.117	0.016	1672.267	0.104	0.081	1699.64
PV Module Washing Truck (idling)	250	8000	Gasoline	0.000	0.000	155.230	27.137	1.790	0.049	4776.900	0.296	0.232	4855.10
Water Trucks	300	23,400	Gasoline	0.032	0.015	0.497	0.041	0.117	0.016	1672.267	0.005	0.005	1673.86
Security/General Site Work Truck	187	4,500	Gasoline - Hybrid	0.010	0.010	2.100	0.055	0.030	0.009	326.296	0.104	0.081	353.67
Staff Cars	100	4,000	Gasoline & diesel	0.072	0.055	3.121	0.192	0.286	0.007	712.582	0.070	0.065	734.12
Van Pooling	150	8,000	Gasoline	0.039	0.024	0.933	0.030	0.065	0.012	1223.764	0.016	0.010	1227.22
Visitor Cars	100	4,000	Gasoline & diesel	0.072	0.055	3.121	0.192	0.286	0.007	712.582	0.070	0.065	734.12
Operations and Maintenance Supplies truck	200	10,000	Diesel	0.089	0.067	1.857	0.261	3.793	0.005	519.299	0.005	0.005	520.89
Waste Management truck	250	40,000	Diesel	0.923	0.811	8.172	3.888	17.517	0.030	3165.446	0.005	0.005	3167.04
Hazardous Waste truck	250	40,000	Diesel	0.923	0.811	8.172	3.888	17.517	0.030	3165.446	0.005	0.005	3167.04
Transport Tractor Trailers truck	250	40,000	Diesel	0.923	0.811	8.172	3.888	17.517	0.030	3165.446	0.005	0.005	3167.04
Off-road Equipment				Emission factors (lb/hr)									
Skid-Steer Loader	90	8,000	Gasoline	0.006	0.006	1.918	0.046	0.123	0.001	79.227	0.003	0.008	81.62
Four Wheel ATV	40	600	Gasoline	0.001	0.001	0.119	0.076	0.000	0.000	0.253	0.005	0.000	0.38
Rubber-wheeled forklift with telescoping boom	50	8,000	Propane	0.002	0.002	0.295	0.002	0.086	0.000	18.295	0.017	0.001	19.07
Forklift	50	6,000	Propane	0.002	0.002	0.295	0.002	0.086	0.000	18.295	0.017	0.001	19.07
Telescoping Man Lift	50	6,000	Propane	0.002	0.002	0.295	0.002	0.086	0.000	18.295	0.017	0.001	19.07

Note:

1. Vehicle description in EMFAC2007 model
   - Suncatcher Washing Vehicle is Medium-Heavy-Duty (MHD-CAT)
   - LRU Maintenance Truck with Boom is Medium-Heavy-Duty (MHD-CAT).
   - PV Module Washing Truck with Boom is Medium-Heavy-Duty (MHD-CAT) (conservative).
   - Water Truck is Medium-Heavy-Duty (MHD-CAT)
   - Security/General Site Work Truck (gasoline) is Light-Duty (LDT2-CAT)
   - Staff Car is Passenger Cars (LDA-ALL)
   - Van Pooling is Medium-Duty Trucks (MDV-CAT)
   - Visitor Cars is Passenger Cars (LDA-ALL)
   - Operations and Maintenance Supplies Delivery Truck is Light-Heavy-Duty (LHD1-DSL)
   - Waste Management Delivery Truck is Heavy-Heavy-Duty (HHD-DSL)
   - Hazardous Waste Delivery Truck is Heavy-Heavy-Duty (HHD-DSL)
   - Transport Tractor Trailer is Heavy-Heavy-Duty (HHD-DSL)
2. Criteria pollutant emission factors for propane fuel off-road equipment obtained from CARB OFFROAD2007.
3. Rubber-wheeled forklift with telescoping boom and telescoping man lift are all forklifts
4. PM emission factors determined using guidance from SCAQMD Final - Methodology to Calculate PM_{10} and $PM_{2.5}$ Significance Thresholds 10/1/2006, Appendix A - Updated CEIDARS Table with $PM_{2.5}$ Fractions

   On-road vehicles
   - $PM_{2.5}$ Fraction of PM_{10}, Brake wear: 0.429
   - $PM_{2.5}$ Fraction of PM_{10}, Diesel: 0.920
   - $PM_{2.5}$ Fraction of PM_{10}, Gasoline-catalyst: 0.928
   - $PM_{2.5}$ Fraction of PM_{10}, Tire wear: 0.250
   - Assume $PM_{2.5}$ and PM_{10} Fraction of total PM for gasoline hybrid car is: 1.000

   Off-road equipment
   - Assume $PM_{2.5}$ and PM_{10} Fraction of total PM for propane fuel equipment is: 1.000
5. The emissions of "Toyota Highlander Hybrid" meet the Tier 2/Bin 3 Federal emissions standard (reference source 3) and its performance is 27 mile/gallon in city (from Toyota website)
6. SO_2 emission factors for the Toyota Highlander Hybrid are from EMFAC2007- Light-Duty Trucks (LDT2-CAT).
7. N_2O emission factors for propane fuel off-road equipment are from Reference Source 2: Table C.6, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009
8. CO_2 emission factors for gasoline and diesel fuel on-road vehicles are from EMFAC2007 model.
9. CH_4 and N_2O emission factors for the running vehicles are from Reference source 1: Table C.4, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009. Hybrid Truck is assumed to be gasoline light truck here.
10. CH_4 and N_2O emission factors for the idling vehicles are scaled from the same type of running vehicle emission factor.
11. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)
    - CO_2 GWP (SAR, 1996) = 1
    - CH_4 GWP (SAR, 1996) = 21
    - N_2O GWP (SAR, 1996) = 310

Daily Emissions For Combustion Exhaust Emissions

Equipment Description	No. Of Units	Max Daily Distance per Vehicle (mile/day)	Max Daily VMT (all units)	Max. Daily Emissions (lb/day)									
				PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle													
Suncatcher Washing Vehicle (running)	6	6.8	41	0.003	0.001	0.045	0.004	0.011	0.001	150.283	0.009	0.007	152.743
Suncatcher Washing Vehicle (idling)	6	-	-	-	-	8.206	1.435	0.095	0.003	252.523	0.016	0.012	256.657
LRU Maintenance Truck with Boom (running)	6	6.8	41	0.003	0.001	0.045	0.004	0.011	0.001	150.283	0.009	0.007	152.743
LRU Maintenance Truck with Boom (idling)	6	-	-	-	-	8.206	1.435	0.095	0.003	252.523	0.016	0.012	256.657
PV Module Washing Truck (running)	24	48.0	1,152	0.081	0.038	1.261	0.104	0.297	0.041	4,243.285	0.263	0.206	4,312.752
PV Module Washing Truck (idling)	24	-	-	-	-	32.824	5.738	0.379	0.010	1,010.093	0.063	0.049	256.657
Water Trucks	4	53.0	212	0.015	0.007	0.232	0.019	0.055	0.007	780.882	0.002	0.002	781.627
Security/General Site Work Truck	7	48.0	336	0.007	0.007	1.554	0.041	0.022	0.007	241.488	0.077	0.060	261.749
Staff Cars	120	4.4	528	0.084	0.064	3.630	0.223	0.333	0.008	828.730	0.082	0.075	853.775
Van Pooling	5	4.4	22	0.002	0.001	0.045	0.001	0.003	0.001	59.301	0.001	0.000	59.469
Visitor Cars	10	4.4	44	0.007	0.005	0.302	0.019	0.028	0.001	69.061	0.007	0.006	71.148
Operations and Maintenance Supplies truck	1	4.4	4	0.001	0.001	0.018	0.003	0.037	0.000	5.033	0.000	0.000	5.048
Waste Management truck	1	4.4	4	0.009	0.008	0.079	0.038	0.170	0.000	30.678	0.000	0.000	30.694
Hazardous Waste truck	1	4.4	4	0.009	0.008	0.079	0.038	0.170	0.000	30.678	0.000	0.000	30.694
Transport Tractor Trailers truck	1	4.4	4	0.009	0.008	0.079	0.038	0.170	0.000	30.678	0.000	0.000	30.694
Off-road Equipment													
Skid-Steer Loader	1			0.074	0.074	23.019	0.550	1.481	0.009	950.724	0.032	0.090	979.431
Four Wheel ATV	10			0.093	0.093	11.927	7.632	0.002	0.045	25.331	0.474	0.009	37.946
Rubber-wheeled forklift with telescoping boom	1			0.013	0.013	2.358	0.016	0.690	-	146.357	0.134	0.011	152.537
Forklift	1			0.013	0.013	2.358	0.016	0.690	-	146.357	0.134	0.011	152.537
Telescoping Man Lift	2			0.026	0.026	4.715	0.032	1.381	-	292.714	0.268	0.022	305.075
Max. Daily Emissions Total (lb/day)				**0.45**	**0.37**	**100.98**	**17.38**	**6.12**	**0.14**	**9,697.01**	**1.59**	**0.58**	**9,140.64**

Hourly Emissions For Combustion Exhaust Emissions

Equipment Description	Max. Operating Hours / Day	Max. Hourly Emissions (lb/hr)									
		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle											
Suncatcher Washing Vehicle (running)	8	0.000	0.000	0.006	0.000	0.001	0.000	18.785	0.001	0.001	19.093
Suncatcher Washing Vehicle (idling)	8	-	-	1.026	0.179	0.012	0.000	31.565	0.002	0.002	32.082
LRU Maintenance Truck with Boom (running)	8	0.000	0.000	0.006	0.000	0.001	0.000	18.785	0.001	0.001	19.093
LRU Maintenance Truck with Boom (idling)	8	-	-	1.026	0.179	0.012	0.000	31.565	0.002	0.002	32.082
PV Module Washing Truck (running)	10	0.008	0.004	0.126	0.010	0.030	0.004	424.329	0.026	0.021	431.275
PV Module Washing Truck (idling)	10	-	-	3.282	0.574	0.038	0.001	101.009	0.006	0.005	25.666
Water Trucks	12	0.001	0.001	0.019	0.002	0.005	0.001	65.074	0.000	0.000	65.136
Security/General Site Work Truck	24	0.000	0.000	0.065	0.002	0.001	0.000	10.062	0.003	0.003	10.906
Staff Cars	2	0.042	0.032	1.815	0.112	0.166	0.004	414.365	0.041	0.038	426.888
Van Pooling	2	0.001	0.001	0.023	0.001	0.002	0.000	29.651	0.000	0.000	29.735
Visitor Cars	8	0.001	0.001	0.038	0.002	0.003	0.000	8.633	0.001	0.001	8.893
Operations and Maintenance Supplies truck	2	0.000	0.000	0.009	0.001	0.018	0.000	2.516	0.000	0.000	2.524
Waste Management truck	2	0.004	0.004	0.040	0.019	0.085	0.000	15.339	0.000	0.000	15.347
Hazardous Waste truck	2	0.004	0.004	0.040	0.019	0.085	0.000	15.339	0.000	0.000	15.347
Transport Tractor Trailers truck	2	0.004	0.004	0.040	0.019	0.085	0.000	15.339	0.000	0.000	15.347
Off-road Equipment											
Skid-Steer Loader	12	0.006	0.006	1.918	0.046	0.123	0.001	79.227	0.003	0.008	81.619
Four Wheel ATV	10	0.009	0.009	1.193	0.763	0.000	0.005	2.533	0.047	0.001	3.795
Rubber-wheeled forklift with telescoping boom	8	0.002	0.002	0.295	0.002	0.086	-	18.295	0.017	0.001	19.067
Forklift	8	0.002	0.002	0.295	0.002	0.086	-	18.295	0.017	0.001	19.067
Telescoping Man Lift	8	0.003	0.003	0.589	0.004	0.173	-	36.589	0.034	0.003	38.134
Max. Hourly Emissions Total (lb/hr)		**0.09**	**0.07**	**11.85**	**1.94**	**1.01**	**0.02**	**1,357.30**	**0.20**	**0.09**	**1,311.10**

Yearly Emissions For Combustion Exhaust Emissions

Equipment Description	Max. Operating Days / Month	Max. Annual Emissions (ton/year)									
		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle											
Suncatcher Washing Vehicle (running)	30	0.001	0.000	0.008	0.001	0.002	0.000	27.051	0.002	0.001	27.494
Suncatcher Washing Vehicle (idling)	30	-	-	1.477	0.258	0.017	0.000	45.454	0.003	0.002	46.198
LRU Maintenance Truck with Boom (running)	30	0.001	0.000	0.008	0.001	0.002	0.000	27.051	0.002	0.001	27.494
LRU Maintenance Truck with Boom (idling)	30	-	-	1.477	0.258	0.017	0.000	45.454	0.003	0.002	46.198
PV Module Washing Truck (running)	22	0.011	0.005	0.166	0.014	0.039	0.005	560.114	0.035	0.027	569.283
PV Module Washing Truck (idling)	22	-	-	4.333	0.757	0.050	0.001	133.332	0.008	0.006	33.879
Water Trucks	30	0.003	0.001	0.042	0.003	0.010	0.001	140.559	0.000	0.000	140.693
Security/General Site Work Truck	30	0.001	0.001	0.280	0.007	0.004	0.001	43.468	0.014	0.011	47.115
Staff Cars	30	0.015	0.011	0.653	0.040	0.060	0.001	149.171	0.015	0.014	153.680
Van Pooling	30	0.000	0.000	0.008	0.000	0.001	0.000	10.674	0.000	0.000	10.704
Visitor Cars	22	0.001	0.001	0.040	0.002	0.004	0.000	9.116	0.001	0.001	9.392
Operations and Maintenance Supplies truck	5	0.000	0.000	0.001	0.000	0.001	0.000	0.151	0.000	0.000	0.151
Waste Management truck	5	0.000	0.000	0.002	0.001	0.005	0.000	0.920	0.000	0.000	0.921
Hazardous Waste truck	5	0.000	0.000	0.002	0.001	0.005	0.000	0.920	0.000	0.000	0.921
Transport Tractor Trailers truck	5	0.000	0.000	0.002	0.001	0.005	0.000	0.920	0.000	0.000	0.921
Off-road Equipment											
Skid-Steer Loader	22	0.010	0.010	3.038	0.073	0.196	0.001	125.496	0.004	0.012	129.285
Four Wheel ATV	22	0.012	0.012	1.574	1.007	0.000	0.006	3.344	0.063	0.001	5.009
Rubber-wheeled forklift with telescoping boom	30	0.002	0.002	0.424	0.003	0.124	-	26.344	0.024	0.002	27.457
Forklift	30	0.002	0.002	0.424	0.003	0.124	-	26.344	0.024	0.002	27.457
Telescoping Man Lift	30	0.005	0.005	0.849	0.006	0.248	-	52.689	0.048	0.004	54.913
Max. Annual Emissions Total (ton/year)		**0.06**	**0.05**	**14.81**	**2.44**	**0.91**	**0.02**	**1,428.57**	**0.25**	**0.09**	**1,359.16**

Calico Solar
Fugitive Dust Emissions (on-site)

Travel on paved road

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
sL = road surface silt loading (grams per square meter) (g/m^2), use more representative numbers from CARB - Emission Inventory Database - Section 7.8 SJV - Entrained Paved Road Dust - Rural Roads (emission inventory
1.6 code: 640-643-5400-0000), June 2006.
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}	
k	0.00054	0.0022	lb/VMT

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on paved road	Max Daily Distance per Vehicle to drive on paved road (mile/day)	Max Daily VMT (all units)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Max. Operating Days / Month	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Suncatcher Washing Vehicle	6	6.8	10%	0.68	4	12	8	30	0.005	0.022
LRU Maintenance Truck with Boom	6	6.8	10%	0.68	4	10	8	30	0.005	0.019
PV Module Washing Truck	24	48	10%	4.8	115	4	10	22	0.002	0.007
Water Trucks	4	16.2	50%	8.1	32	11.7	12	30	0.005	0.022
Security/General Site Work Truck	7	53	10%	5.3	37	2.25	24	30	0.001	0.004
Skid-Steer Loader	1	48	10%	4.8	5	4	12	22	0.002	0.007
Four Wheel ATV	10	48	10%	4.8	48	0.3	10	22	0.000	0.001
Rubber-wheeled forklift with telescoping boom	1	6.8	10%	0.68	1	4	8	30	0.002	0.007
Forklift	1	10	100%	10	10	3	8	30	0.001	0.005
Telescoping Man Lift	2	6.8	10%	0.68	1	3	8	30	0.001	0.005
Staff Cars	120	4.4	95%	4.18	502	2	2	30	0.001	0.004
Van Pooling	5	4.4	100%	4.4	22	4	2	30	0.002	0.007
Visitor Cars	10	4.4	95%	4.18	42	2	8	22	0.001	0.004
Operations and Maintenance Supplies truck	1	4.4	100%	4.4	4	5	2	5	0.002	0.009
Waste Management truck	1	4.4	100%	4.4	4	20	2	5	0.009	0.038
Hazardous Waste truck	1	4.4	100%	4.4	4	20	2	5	0.009	0.038
Transport Tractor Trailers truck	1	4.4	95%	4.18	4	20	2	5	0.009	0.038

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Suncatcher Washing Vehicle	0%	0%	0.01	0.01	0.09	0.09	1.97%	0.02	0.02	0.00	0.00	0.02	0.02	0.00	0.00
LRU Maintenance Truck with Boom	0%	0%	0.01	0.01	0.08	0.08	1.63%	0.01	0.01	0.00	0.00	0.02	0.02	0.00	0.00
PV Module Washing Truck	0%	0%	0.08	0.08	0.84	0.84	18.13%	0.11	0.11	0.02	0.02	0.21	0.21	0.03	0.03
Water Trucks	0%	0%	0.06	0.06	0.70	0.70	15.24%	0.13	0.13	0.01	0.01	0.17	0.17	0.03	0.03
Security/General Site Work Truck	0%	0%	0.01	0.01	0.15	0.15	3.25%	0.03	0.03	0.00	0.00	0.04	0.04	0.01	0.01
Skid-Steer Loader	0%	0%	0.00	0.00	0.03	0.03	0.76%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Four Wheel ATV	0%	0%	0.00	0.00	0.02	0.02	0.54%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Rubber-wheeled forklift with telescoping boom	0%	0%	0.00	0.00	0.00	0.00	0.11%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift	0%	0%	0.01	0.01	0.05	0.05	1.17%	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00
Telescoping Man Lift	0%	0%	0.00	0.00	0.01	0.01	0.16%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staff Cars	0%	0%	0.90	0.90	1.80	1.80	38.93%	0.32	0.32	0.22	0.22	0.44	0.44	0.08	0.08
Van Pooling	0%	0%	0.08	0.08	0.16	0.16	3.46%	0.03	0.03	0.02	0.02	0.04	0.04	0.01	0.01
Visitor Cars	0%	0%	0.02	0.02	0.15	0.15	3.24%	0.02	0.02	0.00	0.00	0.04	0.04	0.00	0.00
Operations and Maintenance Supplies truck	0%	0%	0.02	0.02	0.04	0.04	0.87%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Waste Management truck	0%	0%	0.08	0.08	0.17	0.17	3.58%	0.00	0.00	0.02	0.02	0.04	0.04	0.00	0.00
Hazardous Waste truck	0%	0%	0.08	0.08	0.17	0.17	3.58%	0.00	0.00	0.02	0.02	0.04	0.04	0.00	0.00
Transport Tractor Trailers truck	0%	0%	0.08	0.08	0.16	0.16	3.40%	0.00	0.00	0.02	0.02	0.04	0.04	0.00	0.00
TOTAL Fugitive emissions for vehicles traveled on paved road			**1.44**	**1.44**	**4.62**	**4.62**		**0.70**	**0.70**	**0.35**	**0.35**	**1.13**	**1.13**	**0.17**	**0.17**

Travel on unpaved surfaces

$E = k * (s/12)^a * (W/3)^b * [(365 - P)/365]$

EPA AP-42 Section 13.2.2 Unpaved Roads Equations 1a and 2
E = size-specific emission factor (lb/VMT)
k, a, b = empirical constants
8.5 s = surface material silt content (%)
W = mean vehicle weight (tons)

Construction sites - Scraper routes

constants

	$PM_{2.5}$	PM_{10}	Industrial Roads
k	0.15	1.5	
a	0.9	0.9	
b	0.45	0.45	

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on unpaved roads	Max Daily Distance per Vehicle to drive on unpaved roads (mile/day)	Max Daily VMT (all vehicles)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Max. Operating Days / Month	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Suncatcher Washing Vehicle	6	6.8	0%	0	0	12	8	30	0.192	1.923
LRU Maintenance Truck with Boom	6	6.8	0%	0	0	10	8	30	0.177	1.771
PV Module Washing Truck	24	48	50%	24	576	4	10	22	0.117	1.173
Water Trucks	4	16.2	0%	0	0	12	12	30	0.190	1.901
Security/General Site Work Truck	7	53	0%	0	0	2	24	30	0.091	0.905
Skid-Steer Loader	1	48	60%	28.8	29	4	12	22	0.117	1.173
Four Wheel ATV	10	48	60%	28.8	288	0	10	22	0.037	0.366
Rubber-wheeled forklift with telescoping boom	1	6.8	0%	0	0	4	8	30	0.117	1.173
Forklift	1	10	0%	0	0	3	8	30	0.103	1.030
Telescoping Man Lift	2	6.8	0%	0	0	3	8	30	0.103	1.030
Staff Cars	120	4.4	0%	0	0	2	2	30	0.086	0.859
Van Pooling	5	4.4	0%	0	0	4	2	30	0.117	1.173
Visitor Cars	10	4.4	0%	0	0	2	8	22	0.086	0.859
Operations and Maintenance Supplies truck	1	4.4	0%	0	0	5	2	5	0.130	1.297
Waste Management truck	1	4.4	0%	0	0	20	2	5	0.242	2.420
Hazardous Waste truck	1	4.4	0%	0	0	20	2	5	0.242	2.420
Transport Tractor Trailers truck	1	4.4	0%	0	0	20	2	5	0.242	2.420

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Suncatcher Washing Vehicle	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LRU Maintenance Truck with Boom	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PV Module Washing Truck	0%	74.8%	67.56	17.02	675.59	170.25	82.93%	89.18	22.47	6.76	1.70	67.56	17.02	8.92	2.25
Water Trucks	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Security/General Site Work Truck	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid-Steer Loader	0%	74.8%	2.81	0.71	33.78	8.51	4.15%	4.46	1.12	0.28	0.07	3.38	0.85	0.45	0.11
Four Wheel ATV	0%	74.8%	10.53	2.65	105.30	26.54	12.93%	13.90	3.50	1.05	0.27	10.53	2.65	1.39	0.35
Rubber-wheeled forklift with telescoping boom	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Telescoping Man Lift	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Staff Cars	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Van Pooling	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Visitor Cars	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Operations and Maintenance Supplies truck	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste Management truck	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hazardous Waste truck	0%	74.8%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transport Tractor Trailers truck	0%	74.8%	0.00	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 Fugitive emissions for vehicles traveled on unpaved road			**80.90**	**20.39**	**814.67**	**205.30**		**107.54**	**27.10**	**8.09**	**2.04**	**81.47**	**20.53**	**10.75**	**2.71**

Note:

1. It is assumed the project will water twice a day and limit the onsite vehicle speed to less than 25 mph to mitigate the fugitive dust.
(http://www.aqmd.gov/CEQA/handbook/mitigation/fugitive/MM_fugitive.html) - 55% from watering twice per day, 44% from limiting speeds to 25 mph, and 74.8% [=1-(1-0.55)*(1-0.44)] from doing these two

Travel on sealed roads (paved)

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
7.4 sL = road surface silt loading (grams per square meter) (g/m^2), from AP-42 Table 13.2.1-3 for Municipal solid waste landfill
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}	
k	0.00054	0.0022	lb/VMT

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on sealed roads	Max Daily Distance per Vehicle to drive on sealed roads (mile/day)	Max Daily VMT (all units)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Max. Operating Days / Month	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Suncatcher Washing Vehicle	6	6.8	90%	6	37	12	8	30	0.022	0.090
LRU Maintenance Truck with Boom	6	6.8	90%	6	37	10	8	30	0.018	0.075
PV Module Washing Truck	24	48	40%	19	461	4	10	22	0.007	0.029
Water Trucks	4	16.2	50%	8	32	11.7	12	30	0.021	0.088
Security/General Site Work Truck	7	53	90%	48	334	2.25	24	30	0.004	0.016
Skid-Steer Loader	1	48	30%	14	14	4	12	22	0.007	0.029
Four Wheel ATV	10	48	30%	14	144	0.3	10	22	0.001	0.002
Rubber-wheeled forklift with telescoping boom	1	6.8	90%	6	6	4	8	30	0.007	0.029
Forklift	1	10	0%	0	0	3	8	30	0.005	0.022
Telescoping Man Lift	2	6.8	90%	6	12	3	8	30	0.005	0.022
Staff Cars	120	4.4	5%	0	26	2	2	30	0.004	0.014
Van Pooling	5	4.4	0%	0	0	4	2	30	0.007	0.029
Visitor Cars	10	4.4	5%	0	2	2	8	22	0.004	0.014
Operations and Maintenance Supplies truck	1	4.4	0%	0	0	5	2	5	0.009	0.037
Waste Management truck	1	4.4	0%	0	0	20	2	5	0.037	0.151
Hazardous Waste truck	1	4.4	0%	0	0	20	2	5	0.037	0.151
Transport Tractor Trailers truck	1	4.4	5%	0	0	20	2	5	0.037	0.151

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Suncatcher Washing Vehicle	0%	0%	0.41	0.41	3.30	3.30	11.21%	0.59	0.59	0.10	0.10	0.81	0.81	0.15	0.15
LRU Maintenance Truck with Boom	0%	0%	0.34	0.34	2.74	2.74	9.31%	0.49	0.49	0.08	0.08	0.67	0.67	0.12	0.12
PV Module Washing Truck	0%	0%	1.35	1.35	13.50	13.50	45.87%	1.78	1.78	0.33	0.33	3.31	3.31	0.44	0.44
Water Trucks	0%	0%	0.24	0.24	2.84	2.84	9.64%	0.51	0.51	0.06	0.06	0.70	0.70	0.13	0.13
Security/General Site Work Truck	0%	0%	0.23	0.23	5.44	5.44	18.48%	0.98	0.98	0.06	0.06	1.33	1.33	0.24	0.24
Skid-Steer Loader	0%	0%	0.04	0.04	0.42	0.42	1.43%	0.06	0.06	0.01	0.01	0.10	0.10	0.01	0.01
Four Wheel ATV	0%	0%	0.03	0.03	0.30	0.30	1.02%	0.04	0.04	0.01	0.01	0.07	0.07	0.01	0.01
Rubber-wheeled forklift with telescoping boom	0%	0%	0.02	0.02	0.18	0.18	0.61%	0.03	0.03	0.01	0.01	0.04	0.04	0.01	0.01
Forklift	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Telescoping Man Lift	0%	0%	0.03	0.03	0.27	0.27	0.91%	0.05	0.05	0.01	0.01	0.07	0.07	0.01	0.01
Staff Cars	0%	0%	0.19	0.19	0.38	0.38	1.30%	0.07	0.07	0.05	0.05	0.09	0.09	0.02	0.02
Van Pooling	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Visitor Cars	0%	0%	0.00	0.00	0.03	0.03	0.11%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Operations and Maintenance Supplies truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste Management truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hazardous Waste truck	0%	0%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transport Tractor Trailers truck	0%	0%	0.02	0.02	0.03	0.03	0.11%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
TOTAL Fugitive emissions for vehicles traveled on sealed road (paved)			**2.90**	**2.90**	**29.42**	**29.42**		**4.61**	**4.61**	**0.71**	**0.71**	**7.22**	**7.22**	**1.13**	**1.13**

on-site fugitive

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Max. Operating Hours / Day	Assumed distance percentage to drive on paved main access road	Assumed distance percentage to drive on onsite unimproved PV access paths	Assumed distance percentage to drive on onsite sealed roads	Paved Road - PM_{10} Fugitive Emissions (lb/day)	Unpaved Road - PM_{10} Fugitive Emissions (lb/day)	Sealed Road - PM_{10} Fugitive Emissions (lb/day)	Total PM_{10} Fugitive Emissions (lb/day)
Suncatcher Washing Vehicle	6	6.8	8	10%	0%	90%	0.09	0.00	3.30	3.39
LRU Maintenance Truck with Boom	6	6.8	8	10%	0%	90%	0.08	0.00	2.74	2.81
PV Module Washing Truck	24	48	10	10%	50%	40%	0.84	170.25	13.50	184.58
Water Trucks	4	16.2	12	50%	0%	50%	0.70	0.00	2.84	3.54
Security/General Site Work Truck	7	53	24	10%	0%	90%	0.15	0.00	5.44	5.59
Skid-Steer Loader	1	48	12	10%	60%	30%	0.03	8.51	0.42	8.97
Four Wheel ATV	10	48	10	10%	60%	30%	0.02	26.54	0.30	26.86
Rubber-wheeled forklift with telescoping boom	1	6.8	8	10%	0%	90%	0.00	0.00	0.18	0.18
Forklift	1	10	8	100%	0%	0%	0.05	0.00	0.00	0.05
Telescoping Man Lift	2	6.8	8	10%	0%	90%	0.01	0.00	0.27	0.27
Staff Cars	120	4.4	2	95%	0%	5%	1.80	0.00	0.38	2.18
Van Pooling	5	4.4	2	100%	0%	0%	0.16	0.00	0.00	0.16
Visitor Cars	10	4.4	8	95%	0%	5%	0.15	0.00	0.03	0.18
Operations and Maintenance Supplies truck	1	4.4	2	100%	0%	0%	0.04	0.00	0.00	0.04
Waste Management truck	1	4.4	2	100%	0%	0%	0.17	0.00	0.00	0.17
Hazardous Waste truck	1	4.4	2	100%	0%	0%	0.17	0.00	0.00	0.17
Transport Tractor Trailers truck	1	4.4	2	95%	0%	5%	0.16	0.00	0.03	0.19
							4.62	**205.30**	**29.42**	**239.34**

Calico Solar - Operation and Maintenance Equipment Emissions (off-site)

Emission Factors For Combustion Exhaust Emissions

				Emission Factors (unit: g/mile or g/idle-hr for on-road vehicle, lb/hr for off-road equipment, g/bhp-hr for locomotive)									
Equipment Description	**Horse-power**	**Vehicle Weight (lbs)**	**Fuel**	**PM_{10}**	**$PM_{2.5}$**	**CO**	**ROG**	**NO_x**	**SO_x**	**CO_2**	**CH_4**	**N_2O**	**Total GHG - CO_2e**
On-road Vehicle				**Emission factors (g/mile or g/idle-hr)**									
Suncatcher Washing Vehicle (running)													
Suncatcher Washing Vehicle (idling)													
LRU Maintenance Truck with Boom (running)													
LRU Maintenance Truck with Boom (idling)							driving on-site only						
PV Module Washing Truck (running)													
PV Module Washing Truck (idling)													
Water Trucks													
Security/General Site Work Truck													
Staff Cars	100	4,000	Gasoline & diesel	0.032	0.018	1.607	0.043	0.186	0.003	289.288	0.070	0.065	310.82
Van Pooling	150	8,000	Gasoline	0.025	0.011	0.492	0.006	0.040	0.005	496.468	0.016	0.010	499.93
Visitor Cars	100	4,000	Gasoline & diesel	0.032	0.018	1.607	0.043	0.186	0.003	289.288	0.070	0.065	310.82
Operations and Maintenance Supplies truck	200	10,000	Diesel	0.046	0.028	0.488	0.083	3.056	0.005	519.299	0.005	0.005	520.89
Waste Management truck	250	40,000	Diesel	0.377	0.309	2.210	0.445	8.854	0.016	1670.679	0.005	0.005	1672.27
Hazardous Waste truck	250	40,000	Diesel	0.377	0.309	2.210	0.445	8.854	0.016	1670.679	0.005	0.005	1672.27
Transport Tractor Trailers	250	40,000	Diesel	0.377	0.309	2.210	0.445	8.854	0.016	1670.679	0.005	0.005	1672.27
Off-road Equipment				**Emission factors (lb/hr)**									
Skid-Steer Loader													
Four Wheel ATV													
Rubber-wheeled forklift with telescoping boom							driving on-site only						
Forklift													
Telescoping Man Lift													

Note:

1. Vehicle description in EMFAC2007 model
   - Staff Car is Passenger Cars (LDA-ALL)
   - Van Pooling is Medium-Duty Trucks (MDV-CAT)
   - Visitor Cars is Passenger Cars (LDA-ALL)
   - Operations and Maintenance Supplies Delivery Truck is Light-Heavy-Duty (LHD1-DSL)
   - Waste Management Delivery Truck is Heavy-Heavy-Duty (HHD-DSL)
   - Hazardous Waste Delivery Truck is Heavy-Heavy-Duty (HHD-DSL)
   - Transport Tractor Trailer is Heavy-Heavy-Duty (HHD-DSL)
2. PM emission factors determined using guidance from SCAQMD Final - Methodology to Calculate PM_{10} and $PM_{2.5}$ Significance Thresholds 10/1/2006, Appendix A - Updated CEIDARS Table with $PM_{2.5}$ Fractions

   On-road vehicles
   - $PM_{2.5}$ Fraction of PM_{10}, Brake wear: 0.429
   - $PM_{2.5}$ Fraction of PM_{10}, Diesel: 0.920
   - $PM_{2.5}$ Fraction of PM_{10}, Gasoline-catalyst: 0.928
   - $PM_{2.5}$ Fraction of PM_{10}, Tire wear: 0.250
   - Assume $PM_{2.5}$ and PM_{10} Fraction of total PM for gasoline hybrid car is: 1.000
3. CO_2 emission factors for gasoline and diesel fuel on-road vehicles are from EMFAC2007 model.
4. CH_4 and N_2O emission factors for the running vehicles are from Reference source 1: Table C.4, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009
5. Greenhouse Gas Global Warming Potential (GWP) - Intergovernmental Panel on Climate Change, Second Assessment Report (1996)
   - CO_2 GWP (SAR, 1996) = 1
   - CH_4 GWP (SAR, 1996) = 21
   - N_2O GWP (SAR, 1996) = 310

Daily Emissions For Combustion Exhaust Emissions

Equipment Description	No. Of Units	Max Daily Distance per Vehicle within MDAQMD jurisdictional area (mile/day)	Max Daily VMT (all units)	Max. Daily Emissions (lb/day) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle													
Suncatcher Washing Vehicle (running)													
Suncatcher Washing Vehicle (idling)													
LRU Maintenance Truck with Boom (running)													
LRU Maintenance Truck with Boom (idling)							driving on-site only						
PV Module Washing Truck (running)													
PV Module Washing Truck (idling)													
Water Trucks													
Security/General Site Work Truck													
Staff Cars	120	74.0	8,880	0.63	0.35	31.43	0.84	3.64	0.06	5,658.32	1.38	1.27	6,079.54
Van Pooling	5	74.0	370	0.02	0.01	0.40	0.00	0.03	0.00	404.61	0.01	0.01	407.43
Visitor Cars	10	156.0	1,560	0.11	0.06	5.52	0.15	0.64	0.01	994.03	0.24	0.22	1,068.03
Operations and Maintenance Supplies truck	1	99.0	99	0.01	0.01	0.11	0.02	0.67	0.00	113.24	0.00	0.00	113.59
Waste Management truck	1	130.0	130	0.11	0.09	0.63	0.13	2.54	0.00	478.39	0.00	0.00	478.85
Hazardous Waste truck	1	156.0	156	0.13	0.11	0.76	0.15	3.04	0.01	574.07	0.00	0.00	574.61
Transport Tractor Trailers	1	99.0	99	0.08	0.07	0.48	0.10	1.93	0.00	364.31	0.00	0.00	364.66
Off-road Equipment													
Skid-Steer Loader													
Four Wheel ATV													
Rubber-wheeled forklift with telescoping boom							driving on-site only						
Forklift													
Telescoping Man Lift													
			Max. Daily Emissions Total (lb/day)	**1.09**	**0.69**	**39.34**	**1.39**	**12.48**	**0.09**	**8,586.96**	**1.64**	**1.50**	**9,086.70**

Hourly Emissions For Combustion Exhaust Emissions

Equipment Description	Max. Operating Hours / Day	Max. Hourly Emissions (lb/hr) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle											
Suncatcher Washing Vehicle (running)											
Suncatcher Washing Vehicle (idling)											
LRU Maintenance Truck with Boom (running)											
LRU Maintenance Truck with Boom (idling)						driving on-site only					
PV Module Washing Truck (running)											
PV Module Washing Truck (idling)											
Water Trucks											
Security/General Site Work Truck											
Staff Cars	2	0.313	0.174	15.716	0.421	1.819	0.029	2,829.160	0.688	0.633	3,039.771
Van Pooling	2	0.010	0.005	0.200	0.002	0.016	0.002	202.305	0.006	0.004	203.715
Visitor Cars	8	0.014	0.008	0.690	0.018	0.080	0.001	124.254	0.030	0.028	133.503
Operations and Maintenance Supplies truck	2	0.005	0.003	0.053	0.009	0.333	0.001	56.620	0.001	0.001	56.794
Waste Management truck	2	0.054	0.044	0.316	0.064	1.268	0.002	239.194	0.001	0.001	239.423
Hazardous Waste truck	2	0.065	0.053	0.380	0.076	1.521	0.003	287.033	0.001	0.001	287.307
Transport Tractor Trailers	2	0.041	0.034	0.241	0.049	0.965	0.002	182.156	0.001	0.001	182.329
Off-road Equipment											
Skid-Steer Loader											
Four Wheel ATV											
Rubber-wheeled forklift with telescoping boom						driving on-site only					
Forklift											
Telescoping Man Lift											
	Max. Hourly Emissions Total (lb/hour)	**0.50**	**0.32**	**17.60**	**0.64**	**6.00**	**0.04**	**3,920.72**	**0.73**	**0.67**	**4,142.84**

Yearly Emissions For Combustion Exhaust Emissions

Equipment Description	Max. Operating Days / Month	Max. Annual Emissions (ton/year) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	Total GHG - CO_2e
On-road Vehicle											
Suncatcher Washing Vehicle (running)											
Suncatcher Washing Vehicle (idling)											
LRU Maintenance Truck with Boom (running)											
LRU Maintenance Truck with Boom (idling)						driving on-site only					
PV Module Washing Truck (running)											
PV Module Washing Truck (idling)											
Water Trucks											
Security/General Site Work Truck											
Staff Cars	30	0.11	0.06	5.66	0.15	0.65	0.01	1,018.50	0.25	0.23	1,094.32
Van Pooling	30	0.00	0.00	0.07	0.00	0.01	0.00	72.83	0.00	0.00	73.34
Visitor Cars	22	0.01	0.01	0.73	0.02	0.08	0.00	131.21	0.03	0.03	140.98
Operations and Maintenance Supplies truck	5	0.00	0.00	0.00	0.00	0.02	0.00	3.40	0.00	0.00	3.41
Waste Management truck	5	0.00	0.00	0.02	0.00	0.08	0.00	14.35	0.00	0.00	14.37
Hazardous Waste truck	5	0.00	0.00	0.02	0.00	0.09	0.00	17.22	0.00	0.00	17.24
Transport Tractor Trailers	5	0.00	0.00	0.01	0.00	0.06	0.00	10.93	0.00	0.00	10.94
Off-road Equipment											
Skid-Steer Loader											
Four Wheel ATV											
Rubber-wheeled forklift with telescoping boom						driving on-site only					
Forklift											
Telescoping Man Lift											
	Max. Annual Emissions Total (ton/year)	**0.14**	**0.08**	**6.52**	**0.18**	**0.99**	**0.01**	**1,268.44**	**0.28**	**0.26**	**1,354.59**

Calico Solar
Fugitive Dust Emissions (off-site)

Travel on paved road

$E = [k * (sL/2)^{0.91} * (W)^{1.02}] (1 - P/4N)$

Source: EPA AP-42 Section 13.2.1 Paved Roads Equation 2 (Jan. 2011 version)
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest (lb/VMT),
0.32 sL = road surface silt loading (grams per square meter) (g/m^2), From CARB - Emission Inventory Database - Section 7.9 Entrained Paved Road Dust - Local Streets (emission inventory code: 640-641-5400-0000)
W = average weight (tons) of the vehicles traveling the road, and

constants

	$PM_{2.5}$	PM_{10}	
k	0.00054	0.0022	lb/VMT

23 P = Mean number of days per year with at least 0.01 inches of precipitation (from Daggett FAA Airport Station)
365 N = number of days in the year (averaging period)

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Assumed distance percentage to drive on paved road	Max Daily Distance per Vehicle to drive on paved road (mile/day)	Max Daily VMT (all units)	Mean Vehicle Weight (tons)	Max. Operating Hours / Day	Max. Operating Days / Month	$PM_{2.5}$ EF (lbs/VMT)	PM_{10} EF (lbs/VMT)
Suncatcher Washing Vehicle	driving on-site only									
LRU Maintenance Truck with Boom										
PV Module Washing Truck										
Water Trucks										
Security/General Site Work Truck										
Skid-Steer Loader										
Four Wheel ATV										
Rubber-wheeled forklift with telescoping boom										
Forklift										
Telescoping Man Lift										
Staff Cars	120	74.0	100%	74	8880	2	2	30	0.000	0.001
Van Pooling	5	74.0	100%	74	370	4	2	30	0.000	0.002
Visitor Cars	10	156.0	100%	156	1560	2	8	22	0.000	0.001
Operations and Maintenance Supplies truck	1	99.0	100%	99	99	5	2	5	0.001	0.002
Waste Management truck	1	130.0	100%	130	130	20	2	5	0.002	0.009
Hazardous Waste truck	1	156.0	100%	156	156	20	2	5	0.002	0.009
Transport Tractor Trailers truck	1	99.0	100%	99	99	20	2	5	0.002	0.009

Vehicle Type	Watering Control Efficiency		PM_{10} Emissions (lb/hr)		PM_{10} Emissions (lb/day)		% of daily emissions	PM_{10} Emissions (tons/year)		$PM_{2.5}$ Emissions (lb/hr)		$PM_{2.5}$ Emissions (lb/day)		$PM_{2.5}$ Emissions (tons/year)	
	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated		Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated	Unmitigated	Mitigated
Suncatcher Washing Vehicle	driving on-site only														
LRU Maintenance Truck with Boom															
PV Module Washing Truck															
Water Trucks															
Security/General Site Work Truck															
Skid-Steer Loader															
Four Wheel ATV															
Rubber-wheeled forklift with telescoping boom															
Forklift															
Telescoping Man Lift															
Staff Cars	0%	0%	3.68	3.68	7.36	7.36	57.39%	1.32	1.32	0.90	0.90	1.81	1.81	0.33	0.33
Van Pooling	0%	0%	0.31	0.31	0.62	0.62	4.85%	0.11	0.11	0.08	0.08	0.15	0.15	0.03	0.03
Visitor Cars	0%	0%	0.16	0.16	1.29	1.29	10.08%	0.17	0.17	0.04	0.04	0.32	0.32	0.04	0.04
Operations and Maintenance Supplies truck	0%	0%	0.10	0.10	0.21	0.21	1.63%	0.01	0.01	0.03	0.03	0.05	0.05	0.00	0.00
Waste Management truck	0%	0%	0.56	0.56	1.13	1.13	8.80%	0.03	0.03	0.14	0.14	0.28	0.28	0.01	0.01
Hazardous Waste truck	0%	0%	0.68	0.68	1.35	1.35	10.56%	0.04	0.04	0.17	0.17	0.33	0.33	0.01	0.01
Transport Tractor Trailers truck	0%	0%	0.43	0.43	0.86	0.86	6.70%	0.03	0.03	0.11	0.11	0.21	0.21	0.01	0.01
TOTAL Fugitive emissions for vehicles traveled on paved road			**5.93**	**5.93**	**12.82**	**12.82**		**1.71**	**1.71**	**1.45**	**1.45**	**3.15**	**3.15**	**0.42**	**0.42**

off-site fugitive

Vehicle Type	No. Of Unit	Max Daily Distance per Vehicle (mile/day)	Max. Operating Hours / Day	Assumed distance percentage to drive on paved road	Assumed distance percentage to drive on unpaved road	Assumed distance percentage to drive on onsite sealed roads	Paved Road - PM_{10} Fugitive Emissions (lb/day)	Unpaved Road - PM_{10} Fugitive Emissions (lb/day)	Sealed Road - PM_{10} Fugitive Emissions (lb/day)	Total PM_{10} Fugitive Emissions (lb/day)
Suncatcher Washing Vehicle	driving on-site only									
LRU Maintenance Truck with Boom										
PV Module Washing Truck										
Water Trucks										
Security/General Site Work Truck										
Skid-Steer Loader										
Four Wheel ATV										
Rubber-wheeled forklift with telescoping boom										
Forklift										
Telescoping Man Lift										
Staff Cars	120	74	2	100%	0%	0%	7.36	0.00	0.00	7.36
Van Pooling	5	74	2	100%	0%	0%	0.62	0.00	0.00	0.62
Visitor Cars	10	156	8	100%	0%	0%	1.29	0.00	0.00	1.29
Operations and Maintenance Supplies truck	1	99	2	100%	0%	0%	0.21	0.00	0.00	0.21
Waste Management truck	1	130	2	100%	0%	0%	1.13	0.00	0.00	1.13
Hazardous Waste truck	1	156	2	100%	0%	0%	1.35	0.00	0.00	1.35
Transport Tractor Trailers truck	1	99	2	100%	0%	0%	0.86	0.00	0.00	0.86
							12.82	**0.00**	**0.00**	**12.82**