Tessera Solar
power from stirling energy systems

DOCKET
08-AFC-13
DATE AUG 04 2010
RECD. AUG 04 2010

August 4, 2010

Mr. Christopher Meyer
CEC Project Manager
Attn: Docket No. 08-AFC-13
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

RE: Calico Solar (formerly Solar One) Project (08-AFC-13)
Applicant's Submittal of Additional Air Quality Analysis Discussed at the August 4, 2010 Hearing

Dear Mr. Meyer:

Tessera Solar hereby submits the Applicant's Additional Air Quality Analysis Discussed at the August 4, 2010 Hearing. I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge.

Sincerely,

Felicia L. Bellows
Vice President of Development

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Attachment AQ-1
Calico Solar
Construction Emissions
(July 27, 2010 revision)

Calico Solar
Table 2.2-1b rev.
Estimated Daily Maximum Construction Emissions of Criteria Pollutants (lbs/day)
(Month 6)

Activity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x
On-Site Construction Emissions						
On-Site Combustion Emissions						
Construction Equipment	17.34	15.98	267.06	49.34	294.17	0.29
Worker Vehicles	0.68	0.52	47.85	3.29	4.46	0.07
Security Vehicles	0.01	0.01	1.33	0.03	0.02	0.01
Onsite generators	4.32	4.21	74.89	8.11	81.06	36.37
Bridge Construction Delivery Trucks	0.03	0.03	0.22	0.10	0.49	0.00
Other Delivery Trucks	1.80	1.61	14.60	5.36	29.38	0.04
Subtotal of On-site Combustion Emissions	**24.18**	**22.36**	**405.95**	**66.24**	**409.57**	**36.77**
On-Site Fugitive Emissions						
Construction Equipment	33.54	7.54				
Storage piles	17.95	3.98				
Worker Vehicles	84.50	11.45				
Security Vehicles	6.76	0.93				
Onsite generators	-	-				
Bridge Construction Delivery Trucks	5.18	0.74				
Other Delivery Trucks	325.68	44.77				
Subtotal of On-Site Fugitive Emissions	**473.61**	**69.42**				
Subtotal of On-Site Emissions	**497.80**	**91.78**	**405.95**	**66.24**	**409.57**	**36.77**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	2.50	1.39	201.75	6.01	24.13	0.23
Onsite generators	-	-	-	-	-	-
Bridge Construction Delivery Trucks	0.45	0.38	2.46	0.54	12.24	0.01
Other Delivery Trucks	7.89	6.72	43.23	9.46	214.71	0.23
Subtotal of Off-Site Combustion Emissions	**10.84**	**8.49**	**247.44**	**16.01**	**251.08**	**0.48**
Off-Site Paved Road Fugitive Dust Emissions						
Worker Vehicles	15.23	2.28				
Onsite generators	-	-				
Bridge Construction Delivery Trucks	4.86	0.62				
Other Delivery Trucks	85.17	10.93				
Subtotal of Off-Site Fugitive Emissions	**105.25**	**13.83**				
Subtotal of Off-Site Emissions	**116.09**	**22.32**	**247.44**	**16.01**	**251.08**	**0.48**
Total Maximum Daily Emissions	**613.89**	**114.10**	**653.39**	**82.25**	**660.65**	**37.24**

Calico Solar

Table 2.2-2b rev.

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	1.989	1.832	28.854	5.669	31.700	0.032
Worker Vehicles	0.071	0.054	4.966	0.342	0.463	0.007
Security Vehicles	0.001	0.001	0.208	0.005	0.003	0.001
Onsite generators	0.673	0.657	11.683	1.264	12.645	5.673
Bridge Construction Delivery Trucks	0.003	0.002	0.019	0.009	0.041	0.000
Other Delivery Trucks	0.254	0.228	2.078	0.741	4.139	0.005
Subtotal of On-site Combustion Emissions	**2.99**	**2.77**	**47.81**	**8.03**	**48.99**	**5.72**
On-Site Fugitive Dust Emissions						
Construction Equipment	3.57	0.75				
Storage piles	1.64	0.36				
Worker Vehicles	8.77	1.19				
Security Vehicles	1.05	0.15				
Onsite generators	-	-				
Bridge Construction Delivery Trucks	0.43	0.06				
Other Delivery Trucks	45.91	6.34				
Subtotal of On-Site Fugitive Emissions	**61.37**	**8.85**				
Subtotal of On-Site Emissions	**64.36**	**11.63**	**47.81**	**8.03**	**48.99**	**5.72**
Off-Site On-Road Emissions						
Off-Site Combustion Emissions						
Worker Vehicles	0.26	0.14	20.94	0.62	2.50	0.02
Onsite generators	-	-	-	-	-	-
Bridge Construction Delivery Trucks	0.04	0.03	0.21	0.04	1.02	0.00
Other Delivery Trucks	0.99	0.84	5.42	1.19	26.93	0.03
Subtotal of Off-Site Combustion Emissions	**1.29**	**1.02**	**26.57**	**1.86**	**30.46**	**0.05**
Off-Site Paved Road Fugitive Emissions						
Worker Vehicles	1.58	0.24				
Onsite generators	-	-				
Bridge Construction Delivery Trucks	0.40	0.05				
Other Delivery Trucks	10.68	1.37				
Subtotal of Off-Site Fugitive Emissions	**12.67**	**1.66**				
Subtotal of Off-Site Emissions	**13.95**	**2.68**	**26.57**	**1.86**	**30.46**	**0.05**
Total Maximum Annual Emissions	**78.32**	**14.30**	**74.37**	**9.89**	**79.45**	**5.77**

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	2,764.96	0.82	-	2,782.21
Worker Vehicles	645.58	0.06	0.06	664.84
Security Vehicles	29.29	0.01	0.01	31.75
Onsite generators	2,041.95	0.08	0.02	2,049.88
Bridge Construction Delivery Trucks	4.26	0.00	0.00	4.26
Other Delivery Trucks	480.11	0.00	0.00	480.83
Subtotal of On-site Combustion Emissions	**5,966.17**	**0.98**	**0.09**	**6,013.77**
On-Site Fugitive Dust Emissions				
Construction Equipment				
Storage piles				
Worker Vehicles				
Security Vehicles				
Onsite generators				
Bridge Construction Delivery Trucks				
Other Delivery Trucks				
Subtotal of On-Site Fugitive Emissions				
Subtotal of On-Site Emissions	**5,966.17**	**0.98**	**0.09**	**6,013.77**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	2,156.37	0.52	0.48	2,314.67
Onsite generators	2,156.37	0.52	0.48	2,314.67
Bridge Construction Delivery Trucks	-	-	-	-
Other Delivery Trucks	2,717.80	0.01	0.01	2,720.39
Subtotal of Off-Site Combustion Emissions	**4,976.94**	**0.53**	**0.48**	**5,137.93**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
Onsite generators				
Bridge Construction Delivery Trucks				
Other Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**4,976.94**	**0.53**	**0.48**	**5,137.93**
Total Maximum Annual Emissions	**10,943.10**	**1.50**	**0.57**	**11,151.70**

Note

1. To be consistency to on-site emissions, months 6 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

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	5456.20	2.02	0.00	5498.55
Worker Vehicles	1816.674	0.177	0.163	1870.852
Security Vehicles	110.326	0.035	0.027	119.582
Onsite generators	14428.640	0.569	0.142	14484.649
All Delivery Trucks	1433.941	0.008	0.008	1436.472
Subtotal of On-site Combustion Emissions	**23245.78**	**2.81**	**0.34**	**23410.10**
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	**23245.78**	**2.81**	**0.34**	**23410.10**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	6068.04	1.46	1.34	6513.50
All Delivery Trucks	9901.78	0.03	0.03	9911.23
Subtotal of Off-Site Combustion Emissions	**15969.82**	**1.49**	**1.37**	**16424.73**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
All Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**15969.82**	**1.49**	**1.37**	**16424.73**
Total Entire Construction Period Emissions	**39215.59**	**4.29**	**1.71**	**39834.84**

Table 2.2-7b 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	4,949.78	1.83	-	4,988.20
Worker Vehicles	1,648.06	0.16	0.15	1,697.21
Security Vehicles	100.09	0.03	0.02	108.48
Onsite generators	13,089.44	0.52	0.13	13,140.25
All Delivery Trucks	1,300.85	0.01	0.01	1,303.15
Subtotal of On-site Combustion Emissions	**21,088.21**	**2.55**	**0.31**	**21,237.29**
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	**21,088.21**	**2.55**	**0.31**	**21,237.29**
Off-Site On-Road Emissions				
Off-Site Combustion Emissions				
Worker Vehicles	5,504.83	1.32	1.21	5,908.95
All Delivery Trucks	8,982.74	0.03	0.03	8,991.32
Subtotal of Off-Site Combustion Emissions	**14,487.57**	**1.35**	**1.24**	**14,900.27**
Off-Site Paved Road Fugitive Emissions				
Worker Vehicles				
All Delivery Trucks				
Subtotal of Off-Site Fugitive Emissions				
Subtotal of Off-Site Emissions	**14,487.57**	**1.35**	**1.24**	**14,900.27**
Total Entire Construction Period Emissions	**35,575.79**	**3.89**	**1.55**	**36,137.55**

Calico Solar

Temporary Portable Diesel Generator Emissions

One 75kW and one 500kW diesel engines which are both registered in the State Portable Equipment Registration Program (PERP).

		Emission Factor (g/kW/hr)						Tier 2 Emissions			Tier 3 Emissions			Interim Tier 4 Emissions		
Pollutant	Power rating (kW)	Tier 2	Tier 3	Interim Tier 4	hr/ day	day/ month	month/ year	lb/hr	lb/day	ton/yr	lb/hr	lb/day	ton/yr	lb/hr	lb/day	ton/yr
ROG	75	0.66	0.40	0.19	16	26	12	0.11	1.74	0.27	0.07	1.06	0.16	0.03	0.50	0.08
	500	0.64	0.40	0.19	16	26	12	0.70	11.28	1.76	0.44	7.05	1.10	0.21	3.35	0.52
NOx	75	6.60	4.00	3.40	16	26	12	1.09	17.44	2.72	0.66	10.57	1.65	0.56	8.99	1.40
	500	6.40	4.00	2.00	16	26	12	7.05	112.78	17.59	4.41	70.48	11.00	2.20	35.24	5.50
CO	75	5.00	5.00	5.00	16	26	12	0.83	13.22	2.06	0.83	13.22	2.06	0.83	13.22	2.06
	500	3.50	3.50	3.50	16	26	12	3.85	61.67	9.62	3.85	61.67	9.62	3.85	61.67	9.62
PM10	75	0.30	0.30	0.02	16	26	12	0.05	0.79	0.12	0.05	0.79	0.12	0.00	0.05	0.01
	500	0.20	0.20	0.02	16	26	12	0.22	3.52	0.55	0.22	3.52	0.55	0.02	0.35	0.05

Notes:

1. VOC emission limit 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. 75kW and 500kW engines will be complied with Tier 3 and Tier 2 standards, respectively.

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

Power rating (kW)	Emission Tier	Emissions (lb/day)									
		PM10	PM2.5	CO	ROG	NOx	SOx	CO_2	CH_4	N_2O	CO_2e
75	3	0.79	0.77	13.22	1.06	10.57	5.05	2,004.97	0.08	0.02	2,012.76
500	3	3.52	3.44	61.67	7.05	70.48	31.31	12,423.67	0.49	0.12	12,471.89
Total		**4.32**	**4.21**	**74.89**	**8.11**	**81.06**	**36.37**	**14,428.64**	**0.57**	**0.14**	**14,484.65**

Annual Emissions

Power rating (kW)	Emission Tier	Emissions (ton/yr)									
		PM10	PM2.5	CO	ROG	NOx	SOx	CO_2	CH_4	N_2O	CO_2e
75	3	0.12	0.12	2.06	0.16	1.65	0.79	312.78	0.01	0.00	313.99
500	3	0.55	0.54	9.62	1.10	11.00	4.88	1,938.09	0.08	0.02	1,945.62
Total		**0.67**	**0.66**	**11.68**	**1.26**	**12.64**	**5.67**	**2,250.87**	**0.09**	**0.02**	**2,259.61**

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 vendor data):
   - 75kW engine: 5.6 gallon/hr max.
   - 500kW engine: 34.7 gallon/hr max.
3. other parameters (sulfer content and fuel density) from EPA AP-42.
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

Calico Solar

Construction Trade Projection (850 MW)

Discipline	Hours	Month After Construction Start																																								Highest Per Day Requirement by Solar One During Project
		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	
Carpenters	83,472	10	14	31	31	31	43	47	40	36	28	28	28	21	11	11	10	10	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Concrete Crews	81,008	9	15	29	29	29	46	46	42	36	24	24	24	21	11	11	10	10	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Electricians	212,010	17	28	57	57	57	84	84	60	54	54	54	54	69	69	113	105	105	88	48	48	44	44	44	44	44	44	44	44	44	44	44	44	44	44	0	0	0	0	0	0	113
Ironworkers	100,330	19	23	41	41	41	44	48	36	32	24	24	24	36	26	26	25	25	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Laborers	153,557	17	43	65	62	62	142	142	68	30	30	30	30	56	41	51	46	46	32	22	17	17	17	17	17	17	17	17	10	10	10	10	10	10	10	0	0	0	0	0	0	142
Miscellaneous Crews	10,000	0	0	0	0	0	10	10	10	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Operators	205,183	25	82	93	75	75	86	86	72	59	51	51	51	84	88	67	61	52	34	34	27	26	25	25	25	25	25	25	2	2	2	2	2	2	2	2	1	1	1	1	0	93
Plumbers	25,040	0	5	9	9	9	22	26	26	22	14	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Solar One Technicians	145,920	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
SunCatcher Assemblers	371,200	0	0	0	0	0	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
SunCatcher Electricians	92,800	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
SunCatcher Ironworkers	185,600	0	0	0	0	0	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
SunCatcher Laborers	58,880	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16
SunCatcher Material Handlers	92,800	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
SunCatcher Operators	29,440	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8
SunCatcher Teamsters	44,160	0	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	12	12	12	12	12
SunCatcher Technicians	185,600	0	0	0	0	0	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Teamsters	65,160	4	60	49	24	24	25	25	7	5	5	5	5	31	53	29	28	26	24	24	4	4	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	0	60
Technicians	3,504	0	0	0	0	0	5	5	5	5	5	5	5	5	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Totals	**2,145,664**	**101**	**270**	**374**	**328**	**328**	**719**	**731**	**578**	**501**	**457**	**457**	**457**	**535**	**512**	**521**	**498**	**487**	**420**	**370**	**339**	**314**	**312**	**312**	**312**	**312**	**312**	**312**	**249**	**249**	**249**	**249**	**249**	**285**	**285**	**285**	**230**	**230**	**230**	**230**	**228**	**228**	**818**

Source: Bureau of Labor Statistics, 2008.

Note:

N/A = not applicable

14645 total personnel for 41 months
357 avg monthly personnel
731 max monthly personnel

Data from Appendix V Solar 1
Note does not match Solar 1 Table 3-15 from AFC

Calico Solar
Construction Equipment Projection (850 MW)

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	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1																						
Asphalt Paver	120	X				1																																							
Backhoe	120	X			3	9	6	6	6	6	6	6	5	4	4	4	4	4	4	4	4	1	1	1																					
Compactor	120	X			2	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2																								
Crane small	175	X			1	3	5	6	6	8	8	8	8	8	7	7	7	9	9	7	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Crane large	500	X			1	1	1	4	4	4	4	1													3	3	3	3	3																
Dozer	250	X			1	1	1	1	1	1	1	1	1	1				1	1	1	1																								
Generator	50	X			1	1	1	2	2	5	5	5	5	7	7	7	7	3	3	3	3	3	2	2	2	2	2	1	1	1															
Grader	175	X			2	4	4	4	4	4	3	2	2	1				2	2	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	4	4	6	6	5	4	3	3	2	1	1	1	3	3	3	2	1																							
Maxi Sneeker (Trencher)	50	X				2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	1																				
Skid Steer (Bobcat)	50	X				1	1	2	2	4	3	3	3	2	2	2	2	4	4	4	4	4																							
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	8	8	8	8	8	8	8	8	8	8	8	8	9	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6										
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	5	1																																		
Concrete Pump Truck for bridge	250	X			1	1	1	1	1	1	1																																		
Dump Truck	250	X			3	8	8	7	5	5	5	5	3					3	2	2																									
Flatbed Truck	250	X			2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	7	7	7	7	7	7	7	7	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/Soiltac Truck	250	X			5	14	8	8	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3	3	3	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	2	12	2																																		
Suncatcher Pedestals Delivery Truck	250	X						3	3	3	3	1													3	3	3	3	3																
Stirling Engines 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
Suncatcher Metal Supports Delivery Truck	250	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
Suncatcher Mirrors Delivery Truck	250	X			7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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
Azimuth and Elevation Drive 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			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worker Passenger Vehicles	100	/			67	180	249	219	219	479	487	385	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					146	315	380	356	359	646	634	520	459	421	416	416	466	463	472	450	437	379	330	308	292	290	287	286	286	279	278	236	234	234	234	228	252	252	256	219	214	214	214	213	213

Note:

1. abbreviation:
   - HP=horsepower
   - G=gasoline
   - D=diesel
   - P=propane
2. max numbers of equipment and vehicles per month = 646
3. It is assumed the numbers of worker passenger vehicles are the numbers of workers divided by 1.5.

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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	7	90%	10%	0%	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	1.6	90%	10%	0%	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	0.1	90%	10%	0%	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	6.8	50%	50%	0%	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	27.2	100%	0%	0%	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	48	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	6.8	95%	5%	0%	0	on-site only	from the MSC area to the any construction area of the site
Water/Soiltac Truck			Diesel	variable - from construction equipment schedule	Daily	250	20	13.6	25%	75%	0%	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	7	100%	0%	0%	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	1.6	100%	0%	0%	74	Barstow	most materials will be delivered to the bridge construction area
Suncatcher Delivery Trucks	Suncatcher Pedestals	transport truck	Diesel	variable - from construction equipment schedule	Daily	250	20	7	50%	50%	0%	200	Phoenix	delivers pedestals to installation location
	Stirling Engines	transport truck	Diesel	6	Daily	250	20	7	100%	0%	0%	160	railroad from Detroit to LA and then tranported by truck	delivers materials to MSC
	Suncatcher Metal Supports	transport truck	Diesel	11	Daily	250	20	7	100%	0%	0%	180	from near Phoenix or Los Angeles area.	delivers materials to MSC
	Suncatcher Mirrors	transport truck	Diesel	7	Daily	250	20	7	100%	0%	0%	160	railroad from Detroit to LA and then tranported by truck	delivers materials to MSC
	Electrical and Control Systems	transport truck	Diesel	2	Daily	250	20	7	100%	0%	0%	200	Phoenix	delivers materials to MSC
	Azimuth and Elevation Drive	transport truck	Diesel	2	Daily	250	20	7	100%	0%	0%	160	railroad from Midwest to LA and then tranported by truck	delivers materials to MSC
Water Delivery Trucks	No water truck will be used to transport water from offsite	3700 gal truck	Diesel	0	Daily	300	0		100%	0%	0%			
Worker Passenger Vehicles	Community to Work	Passenger vehicles	Gasoline & diesel	variable - from construction equipment schedule	Daily	100	2	9	100%	0%	0%	74	Barstow	half to MSC and the other half to the main laydown area

Note:

1. Vehicles with variable quantities, the quantity per month can be found in Table 5.2-19 Revised Construction Equipment Projection
2. The average distance from the Project site entrance to bridge construction area, MSC, and the main laydown area is about 0.8, 3.5, and 5.5 miles, one-way, respectively.
3. The average distance between the MSC and the main laydown area is about 2 miles.
4. The fenceline perimeter is approximately 30 miles. Each security vehicle is assumed to travel from the MSC around the perimeter plus one trip to the center of north fenced property (1.8 miles) and the center of south fenced property (5 miles) and back (and plus additional 10% for misc trips) = approximately 48 miles.
5. Average distance from main service complex to center of north and south portion of the site is 1.8 and 5 miles, respectively. Thus, the average round trip distance for each dump truck, pickup truck, and concrete pump truck travels is 6.8 [=(1.8+5)/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. Deliveries coming from Detroit will travel by rail to Los Angeles then by transport truck to the site.
9. The distance from the Project site to the edge of the MDAQMD jurisdictional area toward Los Angeles is about 80 miles.
10. The distance from the Project site to the edge of the MDAQMD jurisdictional area toward Phoenix is about 100 miles.
11. On-site travelling:

    Delivery Trucks: mostly from the Project site entrance to the MSC (3.5 miles).

    Worker Passenger Vehicles: from the Project site entrance to either the laydown area in the MSC (3.5 miles) or the main laydown area (5.5 miles).

    Concrete Pump Trucks: mostly in the bridge construction area (traveling less than 0.1 miles per day).

    Flatbed Truck: assumed to make 4 trips per day to SunCatcher installation locations delivering assembled dishes and misc parts

    Water/Soiltac Truck: assumed to make 2 trips per day to SunCatcher instalation locations to watering or seaing the soiltac product.

    Construction laydown area is sealed

Calico Solar

Combustion Exhaust Emissions On-site (short-term)

Highest activity and emissions occur in month 6.

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

Equipment	Load Factor	Hours/Day	Horsepower	Emission factors (ton/hr) PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	Emission rate per piece of equipment (lb/hr) 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	6	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	7	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	6	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	6	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	0.43	5	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	7	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	7	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	9	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	7	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	7	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	6	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	8	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	7	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	6	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	4	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	6	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	7	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	2.18E-03	1.95E-03	1.61E-02	7.59E-03	3.58E-02	3.85E-05	4.07E+00	6.55E-06	6.17E-06	4.07E+00
Concrete Delivery Truck for bridge	1.6	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	4.98E-04	4.47E-04	3.67E-03	1.73E-03	8.18E-03	8.81E-06	9.30E-01	1.50E-06	1.41E-06	9.30E-01
Concrete Pump Truck for bridge	0.1	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	3.11E-05	2.79E-05	2.29E-04	1.08E-04	5.11E-04	5.51E-07	5.81E-02	9.36E-08	8.81E-08	5.81E-02
Dump Truck	6.8	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	2.11E-03	1.90E-03	1.56E-02	7.37E-03	3.48E-02	3.74E-05	3.95E+00	6.37E-06	5.99E-06	3.95E+00
Flatbed Truck	27.2	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	2.90E-03	2.59E-03	2.61E-02	2.26E-03	4.65E-02	6.99E-05	7.51E+00	5.49E-06	8.49E-06	7.52E+00
Staff & Security Truck	48	24	4,500	1.00E-02	1.00E-02	2.10E+00	5.50E-02	3.00E-02	9.00E-03	3.26E+02	1.04E-01	8.13E-02	3.54E+02	4.41E-05	4.41E-05	9.25E-03	2.42E-04	1.32E-04	3.96E-05	1.44E+00	4.56E-04	3.58E-04	1.56E+00
Pickup Truck	6.8	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	8.99E-05	6.83E-05	6.29E-03	4.33E-04	5.87E-04	8.74E-06	9.01E-01	8.79E-05	8.08E-05	9.28E-01
Water/Solitac Truck	13.6	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	4.23E-03	3.80E-03	3.12E-02	1.47E-02	6.96E-02	7.49E-05	7.90E+00	1.27E-05	1.20E-05	7.91E+00
General Materials Delivery Truck for general cons	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
General Materials Delivery Truck for bridge	1.6	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	2.49E-04	2.23E-04	1.83E-03	8.67E-04	4.09E-03	4.41E-06	4.65E-01	7.49E-07	7.05E-07	4.65E-01
Suncatcher Pedestals Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
Stirling Engines Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
Suncatcher Metal Supports Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
Suncatcher Mirrors Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
Electrical and Control Systems Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+00
Azimuth and Elevation Drive Delivery Truck	7	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	1.09E-03	9.77E-04	8.03E-03	3.79E-03	1.79E-02	1.93E-05	2.03E+00	3.28E-06	3.08E-06	2.03E+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	9	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	3.54E+02	5.95E-05	4.52E-05	4.16E-03	2.87E-04	3.88E-04	5.78E-06	5.96E-01	5.81E-05	5.34E-05	6.14E-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/Solitac 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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	3.00	0.87	0.80	6.12	1.54	9.57	0.01	874.45	0.14	-	877.36
Compactor	2.00	0.72	0.66	4.71	1.35	8.32	0.01	664.80	0.12	-	667.36
Crane small	1.00	0.28	0.26	2.52	0.62	4.79	0.00	414.21	0.06	-	415.39
Crane large	1.00	0.47	0.43	4.56	1.25	12.18	0.01	1,237.98	0.11	-	1,240.36
Dozer	1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
Generator	1.00	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	-	273.59
Grader	2.00	1.09	1.00	10.30	2.42	18.81	0.02	1,723.44	0.22	-	1,728.03
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	2.00	0.73	0.67	5.45	1.93	19.88	0.02	1,929.00	0.17	-	1,932.67
Maxi Sneeker (Trencher)	-	-	-	-	-	-	-	-	-	-	-
Skid Steer (Bobcat)	-	-	-	-	-	-	-	-	-	-	-
Welding Machine	-	-	-	-	-	-	-	-	-	-	-
Equipment fueled with Propane											
Aerial Lift	2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
Fork Lift	2.00	0.01	0.01	2.12	0.02	0.87	-	131.72	0.17	-	135.29
Telehandler	-	-	-	-	-	-	-	-	-	-	-
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Concrete Delivery Truck for bridge	1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
Concrete Pump Truck for bridge	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
Dump Truck	3.00	0.08	0.07	0.56	0.27	1.25	0.00	142.24	0.00	0.00	142.31
Flatbed Truck	2.00	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
Staff & Security Truck	6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
Suncatcher Pedestals Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Stirling Engines Delivery Truck	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	67.00	0.10	0.07	6.69	0.46	0.62	0.01	959.11	0.09	0.09	987.72
Total	**146.00**	**6.48**	**5.92**	**79.24**	**16.89**	**115.23**	**0.13**	**12,513.05**	**1.96**	**0.15**	**12,601.17**

	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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
Asphalt Paver	1.00	0.60	0.56	3.69	1.16	6.86	0.01	489.47	0.10	-	491.67
Backhoe	9.00	2.61	2.40	18.37	4.61	28.72	0.03	2,623.36	0.42	-	2,632.09
Compactor	4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
Crane small	3.00	0.83	0.77	7.55	1.87	14.38	0.01	1,242.62	0.17	-	1,246.16
Crane large	1.00	0.47	0.43	4.56	1.25	12.18	0.01	1,237.98	0.11	-	1,240.36
Dozer	1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
Generator	1.00	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	-	273.59
Grader	4.00	2.18	2.00	20.61	4.85	37.63	0.04	3,446.88	0.44	-	3,456.06
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	4.00	1.46	1.34	10.90	3.87	39.76	0.04	3,858.01	0.35	-	3,865.34
Maxi Sneeker (Trencher)	2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
Skid Steer (Bobcat)	1.00	0.16	0.15	1.86	0.58	1.83	0.00	189.69	0.05	-	190.80
Welding Machine	1.00	0.16	0.14	1.64	0.67	1.47	0.00	140.05	0.06	-	141.32
Equipment fueled with Propane											
Aerial Lift	6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
Fork Lift	6.00	0.04	0.04	6.37	0.06	2.62	-	395.16	0.51	-	405.88
Telehandler	-	-	-	-	-	-	-	-	-	-	-
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Concrete Delivery Truck for bridge	1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
Concrete Pump Truck for bridge	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
Dump Truck	8.00	0.20	0.18	1.50	0.71	3.34	0.00	379.30	0.00	0.00	379.49
Flatbed Truck	10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
Staff & Security Truck	6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	14.00	0.71	0.64	5.24	2.48	11.69	0.01	1,327.54	0.00	0.00	1,328.20
General Materials Delivery Truck for general cons	3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
General Materials Delivery Truck for bridge	2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
Suncatcher Pedestals Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Stirling Engines Delivery Truck	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	180.00	0.26	0.20	17.98	1.24	1.68	0.02	2,576.72	0.25	0.23	2,653.56
Total	**315.00**	**14.22**	**13.00**	**189.89**	**36.24**	**232.05**	**0.26**	**25,578.48**	**4.88**	**0.30**	**25,773.73**

	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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
Compactor	4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
Crane small	5.00	1.39	1.28	12.58	3.12	23.97	0.02	2,071.03	0.28	-	2,076.94
Crane large	1.00	0.47	0.43	4.56	1.25	12.18	0.01	1,237.98	0.11	-	1,240.36
Dozer	1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
Generator	1.00	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	-	273.59
Grader	4.00	2.18	2.00	20.61	4.85	37.63	0.04	3,446.88	0.44	-	3,456.06
Light Tower	-	-	-	-	-	-	-	-	-	-	-
Loader	4.00	1.46	1.34	10.90	3.87	39.76	0.04	3,858.01	0.35	-	3,865.34
Maxi Sneeker (Trencher)	2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
Skid Steer (Bobcat)	1.00	0.16	0.15	1.86	0.58	1.83	0.00	189.69	0.05	-	190.80
Welding Machine	2.00	0.31	0.29	3.29	1.34	2.95	0.00	280.10	0.12	-	282.64
Equipment fueled with Propane											
Aerial Lift	6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
Fork Lift	8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
Telehandler	1.00	0.02	0.02	8.67	0.03	1.24	-	191.16	0.25	-	196.49
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Concrete Delivery Truck for bridge	1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
Concrete Pump Truck for bridge	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
Dump Truck	8.00	0.20	0.18	1.50	0.71	3.34	0.00	379.30	0.00	0.00	379.49
Flatbed Truck	10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
Staff & Security Truck	6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	8.00	0.41	0.36	2.99	1.42	6.68	0.01	758.59	0.00	0.00	758.97
General Materials Delivery Truck for general cons	3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
General Materials Delivery Truck for bridge	2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
Suncatcher Pedestals Delivery Truck	-	-	-	-	-	-	-	-	-	-	-
Stirling Engines Delivery Truck	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	249.00	0.36	0.27	24.87	1.71	2.32	0.03	3,564.46	0.35	0.32	3,670.76
Total	**380.00**	**13.28**	**12.12**	**202.19**	**34.93**	**224.44**	**0.26**	**25,924.69**	**5.33**	**0.39**	**26,156.55**

	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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
Asphalt Paver	-	-	-	-	-	-	-	-	-	-	-
Backhoe	6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
Compactor	4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
Crane small	6.00	1.66	1.53	15.09	3.74	28.77	0.03	2,485.23	0.34	-	2,492.33
Crane large	4.00	1.88	1.73	18.22	5.01	48.73	0.05	4,951.94	0.45	-	4,961.43
Dozer	1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
Generator	2.00	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	-	547.18
Grader	4.00	2.18	2.00	20.61	4.85	37.63	0.04	3,446.88	0.44	-	3,456.06
Light Tower	1.00	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	-	209.51
Loader	6.00	2.19	2.01	16.36	5.80	59.64	0.07	5,787.01	0.52	-	5,798.01
Maxi Sneeker (Trencher)	2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
Skid Steer (Bobcat)	2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
Welding Machine	3.00	0.47	0.43	4.93	2.02	4.42	0.01	420.14	0.18	-	423.96
Equipment fueled with Propane											
Aerial Lift	6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
Fork Lift	8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
Telehandler	1.00	0.02	0.02	8.67	0.03	1.24	-	191.16	0.25	-	196.49
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	-	-	-	-	-	-	-	-	-	-	-
Concrete Delivery Truck for bridge	1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
Concrete Pump Truck for bridge	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
Dump Truck	7.00	0.18	0.16	1.31	0.62	2.92	0.00	331.88	0.00	0.00	332.05
Flatbed Truck	10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
Staff & Security Truck	6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	8.00	0.41	0.36	2.99	1.42	6.68	0.01	758.59	0.00	0.00	758.97
General Materials Delivery Truck for general cons	3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
General Materials Delivery Truck for bridge	2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
Suncatcher Pedestals Delivery Truck	3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
Stirling Engines Delivery Truck	6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Water Delivery Trucks	-	-	-	-	-	-	-	-	-	-	-
Worker Passenger Vehicles	219.00	0.31	0.24	21.88	1.51	2.04	0.03	3,135.01	0.31	0.28	3,228.50
Total	**356.00**	**16.32**	**14.93**	**228.34**	**43.71**	**291.78**	**0.33**	**32,168.05**	**6.13**	**0.35**	**32,404.71**

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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small	5	1.39	1.28	12.58	3.12	23.97	0.02	2071.03	0.28	0.00	2076.94
Crane large	3	1.41	1.30	13.67	3.76	36.55	0.04	3713.95	0.34	0.00	3721.07
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	0.00	547.18
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	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	0.00	209.51
Loader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	1	0.34	0.31	3.66	1.54	3.04	0.00	276.26	0.14	0.00	279.18
Skid Steer (Bobcat)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
Fork Lift	6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
Telehandler	3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	7	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
Staff & Security Truck	6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	5	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
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
Suncatcher Pedestals Delivery Truck	3	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
Stirling Engines Delivery Truck	6	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
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	0.30	0.23	20.88	1.44	1.95	0.03	2991.86	0.29	0.27	3081.08
Total	**292**	**5.59**	**5.07**	**120.08**	**16.83**	**103.36**	**0.13**	**14099.74**	**3.16**	**0.33**	**14269.71**

	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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small	5	1.39	1.28	12.58	3.12	23.97	0.02	2071.03	0.28	0.00	2076.94
Crane large	3	1.41	1.30	13.67	3.76	36.55	0.04	3713.95	0.34	0.00	3721.07
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	0.00	547.18
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	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	0.00	209.51
Loader	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
Fork Lift	6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
Telehandler	3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	7	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
Staff & Security Truck	6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	5	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
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
Suncatcher Pedestals Delivery Truck	3	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
Stirling Engines Delivery Truck	6	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
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	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
Total	**290**	**5.25**	**4.76**	**116.31**	**15.28**	**100.32**	**0.13**	**13809.16**	**3.02**	**0.33**	**13975.78**

	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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small	5	1.39	1.28	12.58	3.12	23.97	0.02	2071.03	0.28	0.00	2076.94
Crane large	3	1.41	1.30	13.67	3.76	36.55	0.04	3713.95	0.34	0.00	3721.07
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	2	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	0.00	547.18
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
Fork Lift	6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
Telehandler	3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	7	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
Staff & Security Truck	6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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
Suncatcher Pedestals Delivery Truck	3	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
Stirling Engines Delivery Truck	6	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
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	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
Total	**287**	**4.95**	**4.49**	**113.39**	**14.16**	**96.57**	**0.13**	**13411.46**	**2.95**	**0.33**	**13576.53**

	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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compactor	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane small	5	1.39	1.28	12.58	3.12	23.97	0.02	2071.03	0.28	0.00	2076.94
Crane large	3	1.41	1.30	13.67	3.76	36.55	0.04	3713.95	0.34	0.00	3721.07
Dozer	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator	1	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	0.00	273.59
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maxi Sneeker (Trencher)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skid Steer (Bobcat)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
Fork Lift	6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
Telehandler	3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	7	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
Staff & Security Truck	6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
Pickup Truck	11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
Water/Soiltac Truck	3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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
Suncatcher Pedestals Delivery Truck	3	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
Stirling Engines Delivery Truck	6	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
Suncatcher Metal Supports Delivery Truck	11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
Suncatcher Mirrors Delivery Truck	7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
Electrical and Control Systems Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
Azimuth and Elevation Drive Delivery Truck	2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
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	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
Total	**286**	**4.69**	**4.25**	**110.80**	**13.16**	**93.85**	**0.12**	**13139.77**	**2.86**	**0.33**	**13302.94**

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$_2$O	CO$_2$e
3.00	0.46	0.42	4.89	2.03	4.13	0.00	384.50	0.18	-	388.36
-	-	-	-	-	-	-	-	-	-	-
6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
6.00	1.66	1.53	15.09	3.74	28.77	0.03	2,485.23	0.34	-	2,492.33
4.00	1.88	1.73	18.22	5.01	48.73	0.05	4,951.94	0.45	-	4,961.43
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
2.00	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	-	547.18
4.00	2.18	2.00	20.61	4.85	37.63	0.04	3,446.88	0.44	-	3,456.06
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
6.00	2.19	2.01	16.36	5.80	59.64	0.07	5,787.01	0.52	-	5,798.01
2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
-	-	-	-	-	-	-	-	-	-	-
1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
5.00	0.13	0.11	0.94	0.44	2.09	0.00	237.06	0.00	0.00	237.18
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
7.00	0.36	0.32	2.62	1.24	5.84	0.01	663.77	0.00	0.00	664.10
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
219.00	0.31	0.24	21.88	1.51	2.04	0.03	3,135.01	0.31	0.28	3,228.50
359.00	**17.05**	**15.61**	**244.99**	**46.85**	**299.13**	**0.34**	**32,914.05**	**6.69**	**0.35**	**33,162.51**

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$_2$O	CO$_2$e
3.00	0.46	0.42	4.89	2.03	4.13	0.00	384.50	0.18	-	388.36
-	-	-	-	-	-	-	-	-	-	-
6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
8.00	2.22	2.04	20.12	4.99	38.36	0.04	3,313.65	0.45	-	3,323.11
4.00	1.88	1.73	18.22	5.01	48.73	0.05	4,951.94	0.45	-	4,961.43
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
5.00	1.27	1.17	12.96	5.02	13.65	0.02	1,358.44	0.45	-	1,367.94
4.00	2.18	2.00	20.61	4.85	37.63	0.04	3,446.88	0.44	-	3,456.06
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
5.00	1.82	1.68	13.63	4.83	49.70	0.05	4,822.51	0.44	-	4,831.67
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
-	-	-	-	-	-	-	-	-	-	-
5.00	0.03	0.03	0.22	0.10	0.49	0.00	55.78	0.00	0.00	55.81
1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
5.00	0.13	0.11	0.94	0.44	2.09	0.00	237.06	0.00	0.00	237.18
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
7.00	0.36	0.32	2.62	1.24	5.84	0.01	663.77	0.00	0.00	664.10
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
12.00	0.07	0.06	0.53	0.25	1.18	0.00	133.87	0.00	0.00	133.94
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
479.00	0.68	0.52	47.85	3.29	4.46	0.07	6,856.94	0.67	0.61	7,061.43
646.00	**19.87**	**18.14**	**331.06**	**58.13**	**328.51**	**0.40**	**39,443.93**	**8.89**	**0.68**	**39,842.02**

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$_2$O	CO$_2$e
3.00	0.46	0.42	4.89	2.03	4.13	0.00	384.50	0.18	-	388.36
-	-	-	-	-	-	-	-	-	-	-
6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
4.00	1.45	1.33	9.41	2.71	16.64	0.02	1,329.59	0.24	-	1,334.72
8.00	2.22	2.04	20.12	4.99	38.36	0.04	3,313.65	0.45	-	3,323.11
4.00	1.88	1.73	18.22	5.01	48.73	0.05	4,951.94	0.45	-	4,961.43
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
5.00	1.27	1.17	12.96	5.02	13.65	0.02	1,358.44	0.45	-	1,367.94
3.00	1.63	1.50	15.45	3.63	28.22	0.03	2,585.16	0.33	-	2,592.05
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
4.00	1.46	1.34	10.90	3.87	39.76	0.04	3,858.01	0.35	-	3,865.34
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
3.00	0.48	0.44	5.59	1.75	5.49	0.01	569.08	0.16	-	572.39
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
5.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
1.00	0.01	0.01	0.04	0.02	0.10	0.00	11.16	0.00	0.00	11.16
1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.70	0.00	0.00	0.70
5.00	0.13	0.11	0.94	0.44	2.09	0.00	237.06	0.00	0.00	237.18
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
2.00	0.01	0.01	0.09	0.04	0.20	0.00	22.31	0.00	0.00	22.32
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
487.00	0.70	0.53	48.65	3.35	4.54	0.07	6,971.46	0.68	0.62	7,179.37
634.00	**18.61**	**16.99**	**312.08**	**54.75**	**303.12**	**0.38**	**37,005.55**	**8.40**	**0.69**	**37,396.32**

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$_2$O	CO$_2$e
3.00	0.46	0.42	4.89	2.03	4.13	0.00	384.50	0.18	-	388.36
-	-	-	-	-	-	-	-	-	-	-
6.00	1.74	1.60	12.25	3.07	19.14	0.02	1,748.90	0.28	-	1,754.73
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
8.00	2.22	2.04	20.12	4.99	38.36	0.04	3,313.65	0.45	-	3,323.11
1.00	0.47	0.43	4.56	1.25	12.18	0.01	1,237.98	0.11	-	1,240.36
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
5.00	1.27	1.17	12.96	5.02	13.65	0.02	1,358.44	0.45	-	1,367.94
2.00	1.09	1.00	10.30	2.42	18.81	0.02	1,723.44	0.22	-	1,728.03
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
3.00	1.09	1.01	8.18	2.90	29.82	0.03	2,893.51	0.26	-	2,899.00
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
3.00	0.48	0.44	5.59	1.75	5.49	0.01	569.08	0.16	-	572.39
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
5.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
5.00	0.13	0.11	0.94	0.44	2.09	0.00	237.06	0.00	0.00	237.18
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
-	-	-	-	-	-	-	-	-	-	-
1.00	0.03	0.02	0.19	0.09	0.43	0.00	48.81	0.00	0.00	48.83
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
385.00	0.55	0.42	38.46	2.65	3.59	0.05	5,511.32	0.54	0.49	5,675.68
520.00	**15.71**	**14.34**	**277.47**	**47.19**	**240.96**	**0.30**	**29,541.06**	**7.66**	**0.56**	**29,875.69**

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$_2$O	CO$_2$e
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
5	1.39	1.28	12.58	3.12	23.97	0.02	2071.03	0.28	0.00	2076.94
3	1.41	1.30	13.67	3.76	36.55	0.04	3713.95	0.34	0.00	3721.07
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	0.00	273.59
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
6	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
286	**4.69**	**4.25**	**110.80**	**13.16**	**93.85**	**0.12**	**13139.77**	**2.86**	**0.33**	**13302.94**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.25	0.23	2.59	1.00	2.73	0.00	271.69	0.09	0.00	273.59
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
279	**2.93**	**2.63**	**94.03**	**8.50**	**51.21**	**0.08**	**8865.19**	**2.47**	**0.33**	**9019.99**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	0.30	0.23	20.78	1.43	1.94	0.03	2977.54	0.29	0.27	3066.34
278	**2.67**	**2.39**	**91.44**	**7.50**	**48.48**	**0.08**	**8593.50**	**2.38**	**0.33**	**8746.40**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
3	0.15	0.14	1.12	0.53	2.50	0.00	284.47	0.00	0.00	284.62
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.24	0.18	16.58	1.14	1.55	0.02	2376.31	0.23	0.21	2447.18
236	**2.61**	**2.35**	**87.25**	**7.21**	**48.09**	**0.07**	**7992.27**	**2.32**	**0.28**	**8127.24**

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	0.46	0.42	4.89	2.03	4.13	0.00	384.50	0.18	-	388.36
-	-	-	-	-	-	-	-	-	-	-
5.00	1.45	1.33	10.21	2.56	15.95	0.02	1,457.42	0.23	-	1,462.27
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
8.00	2.22	2.04	20.12	4.99	38.36	0.04	3,313.65	0.45	-	3,323.11
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
5.00	1.27	1.17	12.96	5.02	13.65	0.02	1,358.44	0.45	-	1,367.94
2.00	1.09	1.00	10.30	2.42	18.81	0.02	1,723.44	0.22	-	1,728.03
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
3.00	1.09	1.01	8.18	2.90	29.82	0.03	2,893.51	0.26	-	2,899.00
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
3.00	0.48	0.44	5.59	1.75	5.49	0.01	569.08	0.16	-	572.39
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	0.08	0.07	0.56	0.27	1.25	0.00	142.24	0.00	0.00	142.31
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
3.00	0.08	0.07	0.58	0.27	1.29	0.00	146.42	0.00	0.00	146.49
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
334.00	0.48	0.36	33.36	2.30	3.11	0.05	4,781.25	0.47	0.43	4,923.84
459.00	**14.71**	**13.43**	**221.85**	**44.66**	**217.63**	**0.28**	**26,182.11**	**6.16**	**0.49**	**26,464.86**

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	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
8.00	2.22	2.04	20.12	4.99	38.36	0.04	3,313.65	0.45	-	3,323.11
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
7.00	1.78	1.64	18.14	7.02	19.11	0.02	1,901.82	0.63	-	1,915.12
1.00	0.54	0.50	5.15	1.21	9.41	0.01	861.72	0.11	-	864.02
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
2.00	0.73	0.67	5.45	1.93	19.88	0.02	1,929.00	0.17	-	1,932.67
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
305.00	0.44	0.33	30.47	2.10	2.84	0.04	4,366.11	0.43	0.39	4,496.32
421.00	**13.51**	**12.34**	**209.59**	**41.98**	**194.53**	**0.25**	**23,586.12**	**5.94**	**0.46**	**23,852.67**

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	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
7.00	1.94	1.79	17.61	4.37	33.56	0.03	2,899.44	0.39	-	2,907.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	1.78	1.64	18.14	7.02	19.11	0.02	1,901.82	0.63	-	1,915.12
-	-	-	-	-	-	-	-	-	-	-
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
1.00	0.36	0.34	2.73	0.97	9.94	0.01	964.50	0.09	-	966.33
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
305.00	0.44	0.33	30.47	2.10	2.84	0.04	4,366.11	0.43	0.39	4,496.32
416.00	**11.75**	**10.72**	**186.46**	**37.69**	**155.39**	**0.21**	**19,979.38**	**5.31**	**0.46**	**20,232.53**

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	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
7.00	1.94	1.79	17.61	4.37	33.56	0.03	2,899.44	0.39	-	2,907.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	1.78	1.64	18.14	7.02	19.11	0.02	1,901.82	0.63	-	1,915.12
-	-	-	-	-	-	-	-	-	-	-
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
1.00	0.36	0.34	2.73	0.97	9.94	0.01	964.50	0.09	-	966.33
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
5.00	0.78	0.72	8.22	3.36	7.37	0.01	700.24	0.30	-	706.61
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
305.00	0.44	0.33	30.47	2.10	2.84	0.04	4,366.11	0.43	0.39	4,496.32
416.00	**11.75**	**10.72**	**186.46**	**37.69**	**155.39**	**0.21**	**19,979.38**	**5.31**	**0.46**	**20,232.53**

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
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.24	0.18	16.58	1.14	1.55	0.02	2376.31	0.23	0.21	2447.18
234	**2.51**	**2.26**	**86.50**	**6.86**	**46.42**	**0.07**	**7802.62**	**2.32**	**0.28**	**7937.49**

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
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.24	0.18	16.58	1.14	1.55	0.02	2376.31	0.23	0.21	2447.18
234	**2.51**	**2.26**	**86.50**	**6.86**	**46.42**	**0.07**	**7802.62**	**2.32**	**0.28**	**7937.49**

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
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
6	0.04	0.04	6.37	0.06	2.62	0.00	395.16	0.51	0.00	405.88
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.24	0.18	16.58	1.14	1.55	0.02	2376.31	0.23	0.21	2447.18
234	**2.51**	**2.26**	**86.50**	**6.86**	**46.42**	**0.07**	**7802.62**	**2.32**	**0.28**	**7937.49**

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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.24	0.18	16.58	1.14	1.55	0.02	2376.31	0.23	0.21	2447.18
228	**2.48**	**2.22**	**80.13**	**6.80**	**43.81**	**0.07**	**7407.46**	**1.81**	**0.28**	**7531.62**

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$_2$O	CO$_2$e
2.00	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
7.00	1.94	1.79	17.61	4.37	33.56	0.03	2,899.44	0.39	-	2,907.72
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	1.78	1.64	18.14	7.02	19.11	0.02	1,901.82	0.63	-	1,915.12
-	-	-	-	-	-	-	-	-	-	-
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
1.00	0.36	0.34	2.73	0.97	9.94	0.01	964.50	0.09	-	966.33
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
2.00	0.32	0.30	3.73	1.17	3.66	0.00	379.38	0.11	-	381.59
3.00	0.47	0.43	4.93	2.02	4.42	0.01	420.14	0.18	-	423.96
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
357.00	0.51	0.39	35.66	2.46	3.33	0.05	5,110.50	0.50	0.46	5,262.90
466.00	**11.51**	**10.49**	**188.37**	**36.71**	**152.93**	**0.21**	**20,443.67**	**5.26**	**0.52**	**20,716.48**

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$_2$O	CO$_2$e
2.00	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
3.00	1.08	1.00	7.06	2.03	12.48	0.01	997.19	0.18	-	1,001.04
9.00	2.50	2.30	22.64	5.62	43.15	0.04	3,727.85	0.51	-	3,738.49
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
3.00	0.76	0.70	7.78	3.01	8.19	0.01	815.06	0.27	-	820.77
2.00	1.09	1.00	10.30	2.42	18.81	0.02	1,723.44	0.22	-	1,728.03
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
3.00	1.09	1.01	8.18	2.90	29.82	0.03	2,893.51	0.26	-	2,899.00
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
3.00	0.47	0.43	4.93	2.02	4.42	0.01	420.14	0.18	-	423.96
5.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
8.00	0.05	0.05	8.50	0.08	3.49	-	526.89	0.68	-	541.17
5.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	0.08	0.07	0.56	0.27	1.25	0.00	142.24	0.00	0.00	142.31
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
341.00	0.49	0.37	34.06	2.35	3.18	0.05	4,881.45	0.48	0.44	5,027.03
463.00	**13.88**	**12.68**	**248.90**	**41.22**	**215.03**	**0.27**	**26,261.29**	**6.88**	**0.50**	**26,562.00**

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$_2$O	CO$_2$e
2.00	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
2.00	0.72	0.66	4.71	1.35	8.32	0.01	664.80	0.12	-	667.36
9.00	2.50	2.30	22.64	5.62	43.15	0.04	3,727.85	0.51	-	3,738.49
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
3.00	0.76	0.70	7.78	3.01	8.19	0.01	815.06	0.27	-	820.77
2.00	1.09	1.00	10.30	2.42	18.81	0.02	1,723.44	0.22	-	1,728.03
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
3.00	1.09	1.01	8.18	2.90	29.82	0.03	2,893.51	0.26	-	2,899.00
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
3.00	0.47	0.43	4.93	2.02	4.42	0.01	420.14	0.18	-	423.96
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
9.00	0.05	0.05	9.56	0.09	3.92	-	592.75	0.77	-	608.81
8.00	0.14	0.14	69.38	0.24	9.95	-	1,529.25	2.03	-	1,571.95
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
347.00	0.50	0.38	34.66	2.39	3.23	0.05	4,967.34	0.48	0.45	5,115.48
472.00	**13.58**	**12.40**	**282.71**	**40.63**	**215.92**	**0.26**	**26,797.86**	**7.93**	**0.51**	**27,122.95**

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$_2$O	CO$_2$e
2.00	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
2.00	0.72	0.66	4.71	1.35	8.32	0.01	664.80	0.12	-	667.36
7.00	1.94	1.79	17.61	4.37	33.56	0.03	2,899.44	0.39	-	2,907.72
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
3.00	0.76	0.70	7.78	3.01	8.19	0.01	815.06	0.27	-	820.77
1.00	0.54	0.50	5.15	1.21	9.41	0.01	861.72	0.11	-	864.02
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
3.00	1.09	1.01	8.18	2.90	29.82	0.03	2,893.51	0.26	-	2,899.00
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
3.00	0.47	0.43	4.93	2.02	4.42	0.01	420.14	0.18	-	423.96
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
7.00	0.04	0.04	7.43	0.07	3.05	-	461.03	0.60	-	473.52
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
332.00	0.47	0.36	33.16	2.28	3.09	0.05	4,752.62	0.46	0.43	4,894.35
450.00	**12.41**	**11.33**	**251.56**	**37.99**	**193.42**	**0.24**	**24,378.97**	**7.01**	**0.49**	**24,678.75**

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$_2$O	CO$_2$e
2.00	0.31	0.28	3.26	1.36	2.75	0.00	256.33	0.12	-	258.90
-	-	-	-	-	-	-	-	-	-	-
4.00	1.16	1.07	8.17	2.05	12.76	0.01	1,165.94	0.18	-	1,169.82
2.00	0.72	0.66	4.71	1.35	8.32	0.01	664.80	0.12	-	667.36
6.00	1.66	1.53	15.09	3.74	28.77	0.03	2,485.23	0.34	-	2,492.33
-	-	-	-	-	-	-	-	-	-	-
1.00	0.56	0.51	4.06	1.45	13.75	0.01	1,175.16	0.13	-	1,177.91
3.00	0.76	0.70	7.78	3.01	8.19	0.01	815.06	0.27	-	820.77
1.00	0.54	0.50	5.15	1.21	9.41	0.01	861.72	0.11	-	864.02
2.00	0.39	0.36	4.36	1.54	4.14	0.01	416.11	0.14	-	419.02
2.00	0.73	0.67	5.45	1.93	19.88	0.02	1,929.00	0.17	-	1,932.67
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
2.00	0.31	0.29	3.29	1.34	2.95	0.00	280.10	0.12	-	282.64
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
7.00	0.04	0.04	7.43	0.07	3.05	-	461.03	0.60	-	473.52
5.00	0.09	0.09	43.36	0.15	6.22	-	955.78	1.27	-	982.47
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
325.00	0.46	0.35	32.46	2.24	3.03	0.05	4,652.41	0.45	0.42	4,791.16
437.00	**11.54**	**10.53**	**234.93**	**35.47**	**175.07**	**0.22**	**22,474.03**	**6.54**	**0.48**	**22,761.15**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.27	0.21	18.98	1.31	1.77	0.03	2719.87	0.27	0.24	2800.99
252	**2.51**	**2.25**	**82.52**	**6.96**	**44.03**	**0.07**	**7751.02**	**1.84**	**0.31**	**7885.43**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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
2	0.03	0.03	17.34	0.06	2.49	0.00	382.31	0.51	0.00	392.99
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.27	0.21	18.98	1.31	1.77	0.03	2719.87	0.27	0.24	2800.99
252	**2.51**	**2.25**	**82.52**	**6.96**	**44.03**	**0.07**	**7751.02**	**1.84**	**0.31**	**7885.43**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.27	0.21	18.98	1.31	1.77	0.03	2719.87	0.27	0.24	2800.99
256	**2.58**	**2.32**	**117.21**	**7.08**	**49.01**	**0.07**	**8515.65**	**2.86**	**0.31**	**8671.40**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.24	0.22	2.19	0.19	3.90	0.01	631.17	0.00	0.00	631.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.22	0.17	15.28	1.05	1.43	0.02	2190.21	0.21	0.20	2255.53
219	**2.52**	**2.28**	**113.52**	**6.83**	**48.66**	**0.07**	**7985.99**	**2.81**	**0.26**	**8125.94**

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$_2$O	CO$_2$e
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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.22	0.17	15.28	1.05	1.43	0.02	2190.21	0.21	0.20	2255.53
214	**2.35**	**2.12**	**111.95**	**6.69**	**45.87**	**0.06**	**7535.15**	**2.81**	**0.26**	**7674.94**

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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
-	-	-	-	-	-	-	-	-	-	-
1.00	0.29	0.27	2.04	0.51	3.19	0.00	291.48	0.05	-	292.45
-	-	-	-	-	-	-	-	-	-	-
6.00	1.66	1.53	15.09	3.74	28.77	0.03	2,485.23	0.34	-	2,492.33
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	0.76	0.70	7.78	3.01	8.19	0.01	815.06	0.27	-	820.77
-	-	-	-	-	-	-	-	-	-	-
1.00	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	-	209.51
1.00	0.36	0.34	2.73	0.97	9.94	0.01	964.50	0.09	-	966.33
5.00	1.70	1.56	18.32	7.71	15.19	0.02	1,381.31	0.70	-	1,395.91
4.00	0.64	0.59	7.45	2.33	7.32	0.01	758.77	0.21	-	763.19
1.00	0.16	0.14	1.64	0.67	1.47	0.00	140.05	0.06	-	141.32
6.00	0.10	0.10	52.03	0.18	7.46	-	1,146.94	1.52	-	1,178.96
7.00	0.04	0.04	7.43	0.07	3.05	-	461.03	0.60	-	473.52
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	0.35	0.31	3.13	0.27	5.58	0.01	901.67	0.00	0.00	902.00
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
280.00	0.40	0.30	27.97	1.93	2.61	0.04	4,008.23	0.39	0.36	4,127.77
379.00	**7.88**	**7.17**	**184.87**	**26.46**	**116.25**	**0.16**	**16,430.64**	**5.19**	**0.43**	**16,671.51**

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	0.15	0.14	1.63	0.68	1.38	0.00	128.17	0.06	-	129.45
-	-	-	-	-	-	-	-	-	-	-
1.00	0.29	0.27	2.04	0.51	3.19	0.00	291.48	0.05	-	292.45
-	-	-	-	-	-	-	-	-	-	-
5.00	1.39	1.28	12.58	3.12	23.97	0.02	2,071.03	0.28	-	2,076.94
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	-	547.18
-	-	-	-	-	-	-	-	-	-	-
1.00	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	-	209.51
-	-	-	-	-	-	-	-	-	-	-
2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
-	-	-	-	-	-	-	-	-	-	-
1.00	0.16	0.14	1.64	0.67	1.47	0.00	140.05	0.06	-	141.32
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
7.00	0.04	0.04	7.43	0.07	3.05	-	461.03	0.60	-	473.52
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8.00	0.28	0.25	2.50	0.22	4.46	0.01	721.34	0.00	0.00	721.60
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
247.00	0.35	0.27	24.67	1.70	2.30	0.03	3,535.83	0.34	0.32	3,641.28
330.00	**5.13**	**4.64**	**119.98**	**16.50**	**75.95**	**0.11**	**11,775.33**	**3.27**	**0.38**	**11,962.60**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1.00	0.29	0.27	2.04	0.51	3.19	0.00	291.48	0.05	-	292.45
-	-	-	-	-	-	-	-	-	-	-
5.00	1.39	1.28	12.58	3.12	23.97	0.02	2,071.03	0.28	-	2,076.94
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2.00	0.51	0.47	5.18	2.01	5.46	0.01	543.38	0.18	-	547.18
-	-	-	-	-	-	-	-	-	-	-
1.00	0.20	0.18	2.18	0.77	2.07	0.00	208.06	0.07	-	209.51
-	-	-	-	-	-	-	-	-	-	-
2.00	0.68	0.63	7.33	3.08	6.08	0.01	552.52	0.28	-	558.37
-	-	-	-	-	-	-	-	-	-	-
1.00	0.16	0.14	1.64	0.67	1.47	0.00	140.05	0.06	-	141.32
2.00	0.03	0.03	17.34	0.06	2.49	-	382.31	0.51	-	392.99
7.00	0.04	0.04	7.43	0.07	3.05	-	461.03	0.60	-	473.52
3.00	0.05	0.05	26.02	0.09	3.73	-	573.47	0.76	-	589.48
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8.00	0.28	0.25	2.50	0.22	4.46	0.01	721.34	0.00	0.00	721.60
6.00	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11.00	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
5.00	0.25	0.23	1.87	0.88	4.17	0.00	474.12	0.00	0.00	474.36
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11.00	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7.00	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2.00	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
-	-	-	-	-	-	-	-	-	-	-
226.00	0.32	0.25	22.58	1.55	2.11	0.03	3,235.22	0.32	0.29	3,331.70
308.00	**4.95**	**4.48**	**116.25**	**15.68**	**74.38**	**0.11**	**11,346.54**	**3.18**	**0.36**	**11,523.57**

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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.22	0.17	15.28	1.05	1.43	0.02	2190.21	0.21	0.20	2255.53
214	**2.35**	**2.12**	**111.95**	**6.69**	**45.87**	**0.06**	**7535.15**	**2.81**	**0.26**	**7674.94**

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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.22	0.17	15.28	1.05	1.43	0.02	2190.21	0.21	0.20	2255.53
214	**2.35**	**2.12**	**111.95**	**6.69**	**45.87**	**0.06**	**7535.15**	**2.81**	**0.26**	**7674.94**

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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.22	0.16	15.18	1.05	1.42	0.02	2175.90	0.21	0.19	2240.79
213	**2.35**	**2.12**	**111.85**	**6.69**	**45.86**	**0.06**	**7520.84**	**2.80**	**0.26**	**7660.20**

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
4	1.11	1.02	10.06	2.50	19.18	0.02	1656.82	0.23	0.00	1661.55
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	0.10	0.10	52.03	0.18	7.46	0.00	1146.94	1.52	0.00	1178.96
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	0.05	26.02	0.09	3.73	0.00	573.47	0.76	0.00	589.48
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	0.07	0.06	0.63	0.05	1.12	0.00	180.33	0.00	0.00	180.40
6	0.01	0.01	1.33	0.03	0.02	0.01	206.99	0.07	0.05	224.36
11	0.01	0.01	0.83	0.06	0.08	0.00	118.97	0.01	0.01	122.52
1	0.05	0.05	0.37	0.18	0.83	0.00	94.82	0.00	0.00	94.87
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	0.16	0.14	1.16	0.55	2.58	0.00	292.84	0.00	0.00	292.99
11	0.29	0.26	2.12	1.00	4.73	0.01	536.87	0.00	0.00	537.14
7	0.18	0.16	1.35	0.64	3.01	0.00	341.65	0.00	0.00	341.82
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
2	0.05	0.05	0.39	0.18	0.86	0.00	97.61	0.00	0.00	97.66
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.22	0.16	15.18	1.05	1.42	0.02	2175.90	0.21	0.19	2240.79
213	**2.35**	**2.12**	**111.85**	**6.69**	**45.86**	**0.06**	**7520.84**	**2.80**	**0.26**	**7660.20**

Monthly Comparison of Construction Equipment Emissions:

		Daily Emissions (lb/day)									
Month of Contruction	Total Equipment Quantity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	146	6.48	5.92	79.24	16.89	115.23	0.13	12513.05	1.96	0.152	12601.17
2	315	14.22	13.00	189.89	36.24	232.05	0.26	25578.48	4.88	0.299	25773.73
3	380	13.28	12.12	202.19	34.93	224.44	0.26	25924.69	5.33	0.387	26156.55
4	356	16.32	14.93	228.34	43.71	291.78	0.33	32168.05	6.13	0.348	32404.71
5	359	17.05	15.61	244.99	46.85	299.13	0.34	32914.05	6.69	0.348	33162.51
6	646	19.87	18.14	331.06	58.13	328.51	0.40	39443.93	8.89	0.682	39842.02
7	634	18.61	16.99	312.08	54.75	303.12	0.38	37005.55	8.40	0.692	37396.32
8	520	15.71	14.34	277.47	47.19	240.96	0.30	29541.06	7.66	0.560	29875.69
9	459	14.71	13.43	221.85	44.66	217.63	0.28	26182.11	6.16	0.495	26464.86
10	421	13.51	12.34	209.59	41.98	194.53	0.25	23586.12	5.94	0.457	23852.67
11	416	11.75	10.72	186.46	37.69	155.39	0.21	19979.38	5.31	0.457	20232.53
12	416	11.75	10.72	186.46	37.69	155.39	0.21	19979.38	5.31	0.457	20232.53
13	466	11.51	10.49	188.37	36.71	152.93	0.21	20443.67	5.26	0.524	20716.48
14	463	13.88	12.68	248.90	41.22	215.03	0.27	26261.29	6.88	0.504	26562.00
15	472	13.58	12.40	282.71	40.63	215.92	0.26	26797.86	7.93	0.511	27122.95
16	450	12.41	11.33	251.56	37.99	193.42	0.24	24378.97	7.01	0.492	24678.75
17	437	11.54	10.53	234.93	35.47	175.07	0.22	22474.03	6.54	0.483	22761.15
18	379	7.88	7.17	184.87	26.46	116.25	0.16	16430.64	5.19	0.425	16671.51
19	330	5.13	4.64	119.98	16.50	75.95	0.11	11775.33	3.27	0.383	11962.60
20	308	4.95	4.48	116.25	15.68	74.38	0.11	11346.54	3.18	0.356	11523.57
21	292	5.59	5.07	120.08	16.83	103.36	0.13	14099.74	3.16	0.334	14269.71
22	290	5.25	4.76	116.31	15.28	100.32	0.13	13809.16	3.02	0.333	13975.78
23	287	4.95	4.49	113.39	14.16	96.57	0.13	13411.46	2.95	0.332	13576.53
24	286	4.69	4.25	110.80	13.16	93.85	0.12	13139.77	2.86	0.332	13302.94
25	286	4.69	4.25	110.80	13.16	93.85	0.12	13139.77	2.86	0.332	13302.94
26	279	2.93	2.63	94.03	8.50	51.21	0.08	8865.19	2.47	0.332	9019.99
27	278	2.67	2.39	91.44	7.50	48.48	0.08	8593.50	2.38	0.332	8746.40
28	236	2.61	2.35	87.25	7.21	48.09	0.07	7992.27	2.32	0.278	8127.24
29	234	2.51	2.26	86.50	6.86	46.42	0.07	7802.62	2.32	0.278	7937.49
30	234	2.51	2.26	86.50	6.86	46.42	0.07	7802.62	2.32	0.278	7937.49
31	234	2.51	2.26	86.50	6.86	46.42	0.07	7802.62	2.32	0.278	7937.49
32	228	2.48	2.22	80.13	6.80	43.81	0.07	7407.46	1.81	0.278	7531.62
33	252	2.51	2.25	82.52	6.96	44.03	0.07	7751.02	1.84	0.309	7885.43
34	252	2.51	2.25	82.52	6.96	44.03	0.07	7751.02	1.84	0.309	7885.43
35	256	2.58	2.32	117.21	7.08	49.01	0.07	8515.65	2.86	0.309	8671.40
36	219	2.52	2.28	113.52	6.83	48.66	0.07	7985.99	2.81	0.261	8125.94
37	214	2.35	2.12	111.95	6.69	45.87	0.06	7535.15	2.81	0.261	7674.94
38	214	2.35	2.12	111.95	6.69	45.87	0.06	7535.15	2.81	0.261	7674.94
39	214	2.35	2.12	111.95	6.69	45.87	0.06	7535.15	2.81	0.261	7674.94
40	213	2.35	2.12	111.85	6.69	45.86	0.06	7520.84	2.80	0.260	7660.20
41	213	2.35	2.12	111.85	6.69	45.86	0.06	7520.84	2.80	0.260	7660.20
MAX VALUE (lb/day)	**646**	**19.87**	**18.14**	**331.06**	**58.13**	**328.51**	**0.40**	**39443.9**	**8.89**	**0.692**	**39842.0**

		Annual Emissions (ton/year)									
Months for Annual Contruction		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	12	2.25	2.06	34.71	6.51	35.86	0.043	4222.61	0.94	0.0694	4263.94
2	13	2.32	2.12	36.12	6.77	36.35	0.045	4325.70	0.99	0.0742	4369.44
3	14	2.31	2.11	36.89	6.83	36.12	0.045	4334.58	1.01	0.0768	4379.69
4	15	2.32	2.12	37.94	6.91	36.01	0.045	4345.93	1.05	0.0785	4392.25
5	16	2.27	2.07	38.24	6.83	34.74	0.043	4244.67	1.06	0.0803	4291.81
6	17	2.19	2.00	38.11	6.68	33.12	0.042	4108.95	1.06	0.0821	4156.59
7	18	2.04	1.86	36.21	6.27	30.36	0.039	3809.78	1.01	0.0787	3855.38
8	19	1.86	1.70	33.71	5.77	27.41	0.035	3481.79	0.94	0.0747	3524.74
9	20	1.72	1.57	31.62	5.36	25.24	0.033	3245.26	0.88	0.0721	3286.16
10	21	1.61	1.46	30.29	5.00	23.76	0.031	3088.19	0.84	0.0700	3127.62
11	22	1.50	1.36	29.08	4.66	22.53	0.029	2961.09	0.81	0.0684	2999.22
12	23	1.41	1.28	28.13	4.35	21.77	0.028	2875.71	0.78	0.0667	2912.70
13	24	1.32	1.20	27.15	4.03	20.97	0.027	2786.79	0.74	0.0651	2822.61
14	25	1.23	1.12	26.14	3.73	20.20	0.026	2691.84	0.71	0.0626	2726.24
15	26	1.09	0.99	24.12	3.30	18.07	0.024	2465.69	0.66	0.0604	2498.19
16	27	0.94	0.86	21.64	2.87	15.90	0.021	2229.03	0.58	0.0581	2259.29
17	28	0.82	0.74	19.50	2.47	14.01	0.019	2016.01	0.52	0.0553	2044.12
18	29	0.70	0.63	17.57	2.10	12.33	0.017	1825.28	0.47	0.0526	1851.42
19	30	0.63	0.57	16.29	1.84	11.43	0.016	1713.11	0.43	0.0507	1737.87
20	31	0.60	0.54	15.86	1.72	11.04	0.015	1661.47	0.42	0.0494	1685.55
21	32	0.56	0.51	15.39	1.60	10.64	0.015	1610.26	0.40	0.0484	1633.65
22	33	0.52	0.47	14.90	1.47	9.87	0.014	1527.73	0.38	0.0480	1550.66
23	34	0.49	0.44	14.46	1.36	9.14	0.013	1448.97	0.37	0.0477	1471.48
24	35	0.46	0.41	14.51	1.27	8.52	0.012	1385.33	0.37	0.0474	1407.72
25	36	0.43	0.39	14.55	1.19	7.94	0.012	1318.33	0.37	0.0465	1340.42
26	37	0.40	0.36	14.56	1.11	7.31	0.011	1245.47	0.36	0.0456	1267.25
27	38	0.39	0.35	14.79	1.08	7.24	0.011	1228.18	0.37	0.0446	1249.77
28	39	0.39	0.35	15.06	1.07	7.21	0.011	1214.42	0.37	0.0437	1235.84
29	40	0.38	0.35	15.38	1.07	7.18	0.010	1208.29	0.38	0.0435	1229.77
30	41	0.38	0.34	15.71	1.06	7.17	0.010	1204.63	0.39	0.0432	1226.16
MAX VALUE (ton/year)		**2.32**	**2.12**	**38.24**	**6.91**	**36.35**	**0.04**	**4345.93**	**1.06**	**0.0821**	**4392.25**

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	26	6	0.027	0.025	0.283	0.118	0.239	0.000	22.251	0.011	0.000	22.474	0.05	0.05	0.55	0.23	0.47	0.00	43.32	0.02	0.00	43.75	37	0.07	0.07	0.78	0.33	0.66	0.00	61.65	0.03	0.00	62.27
Asphalt Paver	1	7	0.085	0.078	0.522	0.164	0.968	0.001	69.134	0.015	0.000	69.444	0.01	0.01	0.05	0.02	0.09	0.00	6.36	0.00	0.00	6.39	1	0.01	0.01	0.05	0.02	0.09	0.00	6.36	0.00	0.00	6.39
Backhoe	66	6	0.051	0.047	0.362	0.091	0.566	0.001	51.682	0.008	0.000	51.854	0.25	0.23	1.75	0.44	2.74	0.00	250.09	0.04	0.00	250.93	88	0.33	0.31	2.34	0.59	3.65	0.00	333.46	0.05	0.00	334.57
Compactor	42	6	0.064	0.059	0.417	0.120	0.738	0.001	58.936	0.011	0.000	59.163	0.20	0.18	1.28	0.37	2.27	0.00	181.49	0.03	0.00	182.19	53	0.25	0.23	1.62	0.47	2.87	0.00	229.02	0.04	0.00	229.91
Crane small	81	5	0.054	0.049	0.488	0.121	0.929	0.001	80.272	0.011	0.000	80.502	0.29	0.27	2.65	0.66	5.05	0.00	436.16	0.06	0.00	437.40	218	0.79	0.72	7.13	1.77	13.59	0.01	1173.86	0.16	0.00	1177.21
Crane large	19	7	0.068	0.063	0.662	0.182	1.771	0.002	179.940	0.016	0.000	180.284	0.12	0.11	1.13	0.31	3.01	0.00	305.78	0.03	0.00	306.37	35	0.21	0.20	2.07	0.57	5.54	0.01	563.28	0.05	0.00	564.36
Dozer	9	7	0.078	0.072	0.574	0.205	1.942	0.002	165.982	0.018	0.000	166.371	0.06	0.06	0.48	0.17	1.61	0.00	137.49	0.02	0.00	137.81	14	0.10	0.09	0.74	0.26	2.50	0.00	213.88	0.02	0.00	214.38
Generator	54	9	0.029	0.026	0.292	0.113	0.307	0.000	30.595	0.010	0.000	30.810	0.18	0.16	1.82	0.70	1.92	0.00	190.72	0.06	0.00	192.06	83	0.27	0.25	2.80	1.08	2.95	0.00	293.15	0.10	0.00	295.20
Grader	28	7	0.078	0.072	0.740	0.174	1.352	0.001	123.810	0.016	0.000	124.140	0.20	0.18	1.88	0.44	3.42	0.00	313.67	0.04	0.00	314.50	36	0.25	0.23	2.41	0.57	4.40	0.00	403.28	0.05	0.00	404.36
Light Tower	19	7	0.026	0.024	0.293	0.103	0.278	0.000	27.964	0.009	0.000	28.160	0.05	0.04	0.54	0.19	0.51	0.00	51.39	0.02	0.00	51.75	32	0.08	0.07	0.91	0.32	0.86	0.00	86.55	0.03	0.00	87.16
Loader	40	6	0.056	0.052	0.421	0.149	1.534	0.002	148.843	0.013	0.000	149.126	0.19	0.17	1.42	0.50	5.17	0.01	501.54	0.05	0.00	502.49	54	0.26	0.24	1.91	0.68	6.98	0.01	677.08	0.06	0.00	678.37
Maxi Sneeker (Trencher)	48	8	0.040	0.037	0.436	0.184	0.362	0.000	32.888	0.017	0.000	33.236	0.21	0.20	2.29	0.96	1.90	0.00	172.39	0.09	0.00	174.21	78	0.34	0.32	3.71	1.56	3.08	0.00	280.13	0.14	0.00	283.09
Skid Steer (Bobcat)	27	7	0.022	0.020	0.250	0.078	0.246	0.000	25.496	0.007	0.000	25.645	0.06	0.05	0.65	0.20	0.64	0.00	66.58	0.02	0.00	66.97	47	0.10	0.09	1.14	0.36	1.12	0.00	115.90	0.03	0.00	116.58
Welding Machine	49	5	0.029	0.027	0.304	0.124	0.273	0.000	25.935	0.011	0.000	26.171	0.10	0.09	1.05	0.43	0.94	0.00	89.21	0.04	0.00	90.02	63	0.13	0.12	1.35	0.55	1.21	0.00	114.70	0.05	0.00	115.74
Equipment fueled with Propane																																
Aerial Lift	54	6	0.003	0.003	1.417	0.005	0.203	0.000	31.235	0.042	0.000	32.107	0.01	0.01	6.09	0.02	0.87	0.00	134.19	0.18	0.00	137.94	159	0.04	0.04	17.93	0.06	2.57	0.00	395.12	0.53	0.00	406.15
Fork Lift	94	4	0.002	0.002	0.295	0.003	0.121	0.000	18.295	0.024	0.000	18.791	0.01	0.01	1.30	0.01	0.53	0.00	80.48	0.10	0.00	82.66	214	0.02	0.02	2.95	0.03	1.21	0.00	183.22	0.24	0.00	188.19
Telehandler	35	6	0.003	0.003	1.417	0.005	0.203	0.000	31.235	0.042	0.000	32.107	0.01	0.01	3.95	0.01	0.57	0.00	86.98	0.12	0.00	89.40	131	0.03	0.03	14.77	0.05	2.12	0.00	325.54	0.43	0.00	334.63
Vehicles with Onroad Engines for Emissions Estimates																																
Concrete Delivery Truck for general construction	12	12	0.002	0.002	0.016	0.008	0.036	0.000	4.067	0.000	0.000	4.069	0.00	0.00	0.03	0.01	0.07	0.00	7.61	0.00	0.00	7.62	14	0.00	0.00	0.04	0.02	0.08	0.00	8.88	0.00	0.00	8.89
Concrete Delivery Truck for bridge	10	12	0.000	0.000	0.004	0.002	0.008	0.000	0.930	0.000	0.000	0.930	0.00	0.00	0.01	0.00	0.01	0.00	1.45	0.00	0.00	1.45	11	0.00	0.00	0.01	0.00	0.01	0.00	1.60	0.00	0.00	1.60
Concrete Pump Truck for bridge	6	12	0.000	0.000	0.000	0.000	0.001	0.000	0.058	0.000	0.000	0.058	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	7	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.06
Dump Truck	46	12	0.002	0.002	0.016	0.007	0.035	0.000	3.951	0.000	0.000	3.953	0.02	0.01	0.11	0.05	0.25	0.00	28.35	0.00	0.00	28.37	56	0.02	0.02	0.14	0.06	0.30	0.00	34.52	0.00	0.00	34.53
Flatbed Truck	120	12	0.003	0.003	0.026	0.002	0.046	0.000	7.514	0.000	0.000	7.517	0.05	0.05	0.49	0.04	0.87	0.00	140.66	0.00	0.00	140.71	310	0.14	0.13	1.26	0.11	2.25	0.00	363.37	0.00	0.00	363.51
Staff & Security Truck	72	24	0.000	0.000	0.009	0.000	0.000	0.000	1.437	0.000	0.000	1.558	0.00	0.00	0.21	0.01	0.00	0.00	32.29	0.01	0.00	35.00	246	0.00	0.00	0.71	0.02	0.01	0.00	110.33	0.03	0.03	119.58
Pickup Truck	132	12	0.000	0.000	0.006	0.000	0.001	0.000	0.901	0.000	0.000	0.928	0.00	0.00	0.13	0.01	0.01	0.00	18.56	0.00	0.00	19.11	451	0.01	0.00	0.44	0.03	0.04	0.00	63.41	0.01	0.01	65.30
Water/Soiltac Truck	79	12	0.004	0.004	0.031	0.015	0.070	0.000	7.902	0.000	0.000	7.906	0.05	0.05	0.38	0.18	0.86	0.00	97.38	0.00	0.00	97.43	160	0.11	0.09	0.78	0.37	1.74	0.00	197.23	0.00	0.00	197.33
General Materials Delivery Truck for general cons	24	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.01	0.01	0.06	0.03	0.13	0.00	15.23	0.00	0.00	15.24	24	0.01	0.01	0.06	0.03	0.13	0.00	15.23	0.00	0.00	15.24
General Materials Delivery Truck for bridge	22	24	0.000	0.000	0.002	0.001	0.004	0.000	0.465	0.000	0.000	0.465	0.00	0.00	0.01	0.01	0.03	0.00	3.19	0.00	0.00	3.19	24	0.00	0.00	0.01	0.01	0.03	0.00	3.48	0.00	0.00	3.48
Suncatcher Pedestals Delivery Truck	13	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.00	0.00	0.03	0.02	0.07	0.00	8.25	0.00	0.00	8.25	28	0.01	0.01	0.07	0.03	0.16	0.00	17.77	0.00	0.00	17.77
Stirling Engines Delivery Truck	72	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.02	0.02	0.18	0.09	0.40	0.00	45.68	0.00	0.00	45.71	246	0.08	0.07	0.62	0.29	1.37	0.00	156.08	0.00	0.00	156.16
Suncatcher Metal Supports Delivery Truck	132	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.04	0.04	0.33	0.16	0.74	0.00	83.75	0.00	0.00	83.79	451	0.15	0.14	1.13	0.53	2.52	0.00	286.15	0.00	0.00	286.30
Suncatcher Mirrors Delivery Truck	84	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.03	0.03	0.21	0.10	0.47	0.00	53.30	0.00	0.00	53.32	287	0.10	0.09	0.72	0.34	1.60	0.00	182.10	0.00	0.00	182.19
Electrical and Control Systems Delivery Truck	24	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.01	0.01	0.06	0.03	0.13	0.00	15.23	0.00	0.00	15.24	82	0.03	0.02	0.21	0.10	0.46	0.00	52.03	0.00	0.00	52.05
Azimuth and Elevation Drive Delivery Truck	24	24	0.001	0.001	0.008	0.004	0.018	0.000	2.034	0.000	0.000	2.035	0.01	0.01	0.06	0.03	0.13	0.00	15.23	0.00	0.00	15.24	82	0.03	0.02	0.21	0.10	0.46	0.00	52.03	0.00	0.00	52.05
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	3824	24	0.000	0.000	0.004	0.000	0.000	0.000	0.596	0.000	0.000	0.614	0.07	0.05	4.97	0.34	0.46	0.01	711.63	0.07	0.06	732.86	9762	0.18	0.14	12.68	0.87	1.18	0.02	1816.67	0.18	0.16	1870.85
	5388										Total		2.32	2.12	36.12	6.77	36.35	0.04	4325.70	0.99	0.07	4369.44		4.15	3.78	83.67	12.17	67.74	0.09	8817.14	2.24	0.20	8925.45

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)
Peak month = 6 Maximum annual construction on-site exhausted emissions occurs in months 2-13.

Travel on sealed roads (paved)

$E = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C] (1 - P/4N)$ EPA AP-42 Section 13.2.1 Paved Roads Equation 2
E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest
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
C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.

constants
Solar One Technicians

	$PM_{2.5}$	PM_{10}
k	0.0024	0.016
C	0.00036	0.00047

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 6)	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	3	0	0%	0.0	0	0.5	6	26	0	0.000	0.002
Asphalt Paver	0	0.2	0%	0.0	0	25	7	1	0	0.133	0.886
Backhoe	6	0	0%	0.0	0	11	6	66	0	0.038	0.258
Compactor	4	0	0%	0.0	0	10	6	42	0	0.033	0.224
Crane small	8	0.5	50%	0.3	2	10	5	81	526.5	0.033	0.224
Crane large	4	0.5	0%	0.0	0	35	7	19	0	0.220	1.468
Dozer	1	0	0%	0.0	0	20	7	9	0	0.095	0.634
Generator	5	0	0%	0.0	0	0.5	9	54	0	0.000	0.002
Grader	4	0	0%	0.0	0	20	7	28	0	0.095	0.634
Light Tower	2	0	0%	0.0	0	0.25	7	19	0	0.000	0.000
Loader	5	0	0%	0.0	0	25	6	40	0	0.133	0.886
Maxi Sneeker (Trencher)	5	0	0%	0.0	0	5	8	48	0	0.012	0.079
Skid Steer (Bobcat)	4	0	0%	0.0	0	2	7	27	0	0.003	0.020
Welding Machine	5	0	0%	0.0	0	0.5	5	49	0	0.000	0.002
Equipment fueled with Propane											
Aerial Lift	6	1	50%	0.5	3	4	6	54	702	0.008	0.056
Fork Lift	8	1	50%	0.5	4	3	4	94	1222	0.005	0.036
Telehandler	6	1	50%	0.5	3	3	6	35	455	0.005	0.036
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	7	90%	6.3	0	20	12	12	1965.6	0.095	0.634
Concrete Delivery Truck for bridge	5	1.6	90%	1.4	7	20	12	10	374.4	0.095	0.634
Concrete Pump Truck for bridge	1	0.1	90%	0.1	0	20	12	6	14.04	0.095	0.634
Dump Truck	5	6.8	50%	3.4	17	20	12	46	4066.4	0.095	0.634
Flatbed Truck	10	27.2	100%	27.2	272	10	12	120	84864	0.033	0.224
Staff & Security Truck	6	48	100%	48.0	288	2.25	24	72	89856	0.003	0.023
Pickup Truck	11	6.8	95%	6.5	71	4	12	132	22170.72	0.008	0.056
Water/Soiltac Truck	7	13.6	25%	3.4	24	20	12	79	6983.6	0.095	0.634
General Materials Delivery Truck for general cor	3	7	100%	7.0	21	20	24	24	4368	0.095	0.634
General Materials Delivery Truck for bridge	12	1.6	100%	1.6	19	20	24	22	915.2	0.095	0.634
Suncatcher Pedestals Delivery Truck	3	7	50%	3.5	11	20	24	13	1183	0.095	0.634
Stirling Engines Delivery Truck	6	7	100%	7.0	42	20	24	72	13104	0.095	0.634
Suncatcher Metal Supports Delivery Truck	11	7	100%	7.0	77	20	24	132	24024	0.095	0.634
Suncatcher Mirrors Delivery Truck	7	7	100%	7.0	49	20	24	84	15288	0.095	0.634
Electrical and Control Systems Delivery Truck	2	7	100%	7.0	14	20	24	24	4368	0.095	0.634
Azimuth and Elevation Drive Delivery Truck	2	7	100%	7.0	14	20	24	24	4368	0.095	0.634
Water Delivery Trucks	0	0	100%	0.0	0	0	24	0	0	0.000	0.000
Worker Passenger Vehicles	479	9	100%	9.0	4311	2	24	3824	894816	0.003	0.020

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%	0.09	0.09	0.45	0.45	0.13%	0.06	0.06	0.01	0.01	0.07	0.07	0.01	0.01
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%	0.03	0.03	0.17	0.17	0.05%	0.02	0.02	0.00	0.00	0.02	0.02	0.00	0.00
Fork Lift	0%	0%	0.04	0.04	0.15	0.15	0.04%	0.02	0.02	0.01	0.01	0.02	0.02	0.00	0.00
Telehandler	0%	0%	0.02	0.02	0.11	0.11	0.03%	0.01	0.01	0.00	0.00	0.02	0.02	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%	0.62	0.62	0.00	0.00	0.00	0.00	0.09	0.09
Concrete Delivery Truck for bridge	0%	0%	0.38	0.38	4.56	4.56	1.33%	0.12	0.12	0.06	0.06	0.68	0.68	0.02	0.02
Concrete Pump Truck for bridge	0%	0%	0.00	0.00	0.06	0.06	0.02%	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Dump Truck	0%	0%	0.90	0.90	10.78	10.78	3.13%	1.29	1.29	0.13	0.13	1.61	1.61	0.19	0.19
Flatbed Truck	0%	0%	5.07	5.07	60.89	60.89	17.70%	9.50	9.50	0.75	0.75	9.06	9.06	1.41	1.41
Staff & Security Truck	0%	0%	0.28	0.28	6.76	6.76	1.97%	1.05	1.05	0.04	0.04	0.93	0.93	0.15	0.15
Pickup Truck	0%	0%	0.33	0.33	4.00	4.00	1.16%	0.62	0.62	0.05	0.05	0.58	0.58	0.09	0.09
Water/Soiltac Truck	0%	0%	1.26	1.26	15.09	15.09	4.39%	2.21	2.21	0.19	0.19	2.26	2.26	0.33	0.33
General Materials Delivery Truck for general cor	0%	0%	0.55	0.55	13.31	13.31	3.87%	1.38	1.38	0.08	0.08	1.99	1.99	0.21	0.21
General Materials Delivery Truck for bridge	0%	0%	0.51	0.51	12.17	12.17	3.54%	0.29	0.29	0.08	0.08	1.82	1.82	0.04	0.04
Suncatcher Pedestals Delivery Truck	0%	0%	0.28	0.28	6.66	6.66	1.94%	0.38	0.38	0.04	0.04	1.00	1.00	0.06	0.06
Stirling Engines Delivery Truck	0%	0%	1.11	1.11	26.63	26.63	7.74%	4.15	4.15	0.17	0.17	3.98	3.98	0.62	0.62
Suncatcher Metal Supports Delivery Truck	0%	0%	2.03	2.03	48.82	48.82	14.19%	7.62	7.62	0.30	0.30	7.30	7.30	1.14	1.14
Suncatcher Mirrors Delivery Truck	0%	0%	1.29	1.29	31.07	31.07	9.03%	4.85	4.85	0.19	0.19	4.65	4.65	0.72	0.72
Electrical and Control Systems Delivery Truck	0%	0%	0.37	0.37	8.88	8.88	2.58%	1.38	1.38	0.06	0.06	1.33	1.33	0.21	0.21
Azimuth and Elevation Drive Delivery Truck	0%	0%	0.37	0.37	8.88	8.88	2.58%	1.38	1.38	0.06	0.06	1.33	1.33	0.21	0.21
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%	3.52	3.52	84.50	84.50	24.57%	8.77	8.77	0.48	0.48	11.45	11.45	1.19	1.19
TOTAL Fugitive emissions for vehicles traveled on sealed road (paved)			**18.44**	**18.44**	**343.93**	**343.93**		**45.74**	**45.74**	**2.70**	**2.70**	**50.09**	**50.09**	**6.69**	**6.69**

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 (%) Construction sites - Scraper routes

W = mean vehicle weight (tons)

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 6)	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	3	0	100%	0	0	0.5	6	26	0	0.046	0.460
Asphalt Paver	0	0.2	100%	0.2	0	25	7	1	5.2	0.268	2.676
Backhoe	6	0	100%	0	0	11	6	66	0	0.185	1.849
Compactor	4	0	100%	0	0	10	6	42	0	0.177	1.771
Crane small	8	0.5	50%	0.25	2	10	5	81	526.5	0.177	1.771
Crane large	4	0.5	100%	0.5	2	35	7	19	247	0.311	3.113
Dozer	1	0	100%	0	0	20	7	9	0	0.242	2.420
Generator	5	0	100%	0	0	0.5	9	54	0	0.046	0.460
Grader	4	0	100%	0	0	20	7	28	0	0.242	2.420
Light Tower	2	0	100%	0	0	0.25	7	19	0	0.034	0.337
Loader	5	0	100%	0	0	25	6	40	0	0.268	2.676
Maxi Sneeker (Trencher)	5	0	100%	0	0	5	8	48	0	0.130	1.297
Skid Steer (Bobcat)	4	0	100%	0	0	2	7	27	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	6	54	702	0.117	1.173
Fork Lift	8	1	50%	0.5	4	3	4	94	1222	0.103	1.030
Telehandler	6	1	50%	0.5	3	3	6	35	455	0.103	1.030
Vehicles with Onroad Engines for Emissions Estimates											
Concrete Delivery Truck for general construction	0	7	10%	0.7	0	20	12	12	218.4	0.242	2.420
Concrete Delivery Truck for bridge	5	1.6	10%	0.16	1	20	12	10	41.6	0.242	2.420
Concrete Pump Truck for bridge	1	0.1	10%	0.01	0	20	12	6	1.56	0.242	2.420
Dump Truck	5	6.8	50%	3.4	17	20	12	46	4066.4	0.242	2.420
Flatbed Truck	10	27.2	0%	0	0	10	12	120	0	0.177	1.771
Staff & Security Truck	6	48	0%	0	0	2.25	24	72	0	0.091	0.905
Pickup Truck	11	6.8	5%	0.34	4	4	12	132	1166.88	0.117	1.173
Water/Soiltac Truck	7	13.6	75%	10.2	71	20	12	79	20950.8	0.242	2.420
General Materials Delivery Truck for general cor	3	7	0%	0	0	20	24	24	0	0.242	2.420
General Materials Delivery Truck for bridge	12	1.6	0%	0	0	20	24	22	0	0.242	2.420
Suncatcher Pedestals Delivery Truck	3	7	50%	3.5	11	20	24	13	1183	0.242	2.420
Stirling Engines Delivery Truck	6	7	0%	0	0	20	24	72	0	0.242	2.420
Suncatcher Metal Supports Delivery Truck	11	7	0%	0	0	20	24	132	0	0.242	2.420
Suncatcher Mirrors Delivery Truck	7	7	0%	0	0	20	24	84	0	0.242	2.420
Electrical and Control Systems Delivery Truck	2	7	0%	0	0	20	24	24	0	0.242	2.420
Azimuth and Elevation Drive Delivery Truck	2	7	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	479	9	0%	0	0	2	24	3824	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%	68%	0.00	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%	68%	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%	68%	0.00	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%	68%	0.00	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%	68%	0.69	0.22	3.54	1.13	1.33%	0.47	0.15	0.07	0.02	0.35	0.11	0.05	0.01
Crane large	0%	68%	0.90	0.29	6.23	1.99	2.34%	0.38	0.12	0.09	0.03	0.62	0.20	0.04	0.01
Dozer	0%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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%	68%	0.57	0.18	3.52	1.13	1.32%	0.41	0.13	0.06	0.02	0.35	0.11	0.04	0.01
Fork Lift	0%	68%	1.14	0.37	4.12	1.32	1.55%	0.63	0.20	0.11	0.04	0.41	0.13	0.06	0.02
Telehandler	0%	68%	0.51	0.16	3.09	0.99	1.16%	0.23	0.08	0.05	0.02	0.31	0.10	0.02	0.01
Vehicles with Onroad Engines for Emissions Estimates															
Concrete Delivery Truck for general construction	0%	68%	0.00	0.00	0.00	0.00	0.00%	0.26	0.08	0.00	0.00	0.00	0.00	0.03	0.01
Concrete Delivery Truck for bridge	0%	68%	0.16	0.05	1.94	0.62	0.73%	0.05	0.02	0.02	0.01	0.19	0.06	0.01	0.00
Concrete Pump Truck for bridge	0%	68%	0.00	0.00	0.02	0.01	0.01%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	0%	68%	3.43	1.10	41.14	13.16	15.46%	4.92	1.57	0.34	0.11	4.11	1.32	0.49	0.16
Flatbed Truck	0%	68%	0.00	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%	68%	0.00	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%	68%	0.37	0.12	4.39	1.40	1.65%	0.68	0.22	0.04	0.01	0.44	0.14	0.07	0.02
Water/Soiltac Truck	0%	68%	14.40	4.61	172.78	55.29	64.91%	25.35	8.11	1.44	0.46	17.28	5.53	2.53	0.81
General Materials Delivery Truck for general cor	0%	68%	0.00	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%	68%	0.00	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 Pedestals Delivery Truck	0%	68%	1.06	0.34	25.41	8.13	9.55%	1.43	0.46	0.11	0.03	2.54	0.81	0.14	0.05
Stirling Engines Delivery Truck	0%	68%	0.00	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 Metal Supports Delivery Truck	0%	68%	0.00	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 Mirrors Delivery Truck	0%	68%	0.00	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%	68%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Azimuth and Elevation Drive Delivery Truck	0%	68%	0.00	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%	68%	0.00	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%	68%	0.00	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			**23.23**	**7.43**	**266.18**	**85.18**		**34.84**	**11.15**	**2.32**	**0.74**	**26.62**	**8.52**	**3.48**	**1.11**

Water efficiency from CEQA Table 11-4 maximum value for watering active sites 2 times daily

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	4	6	2	68%	3.95	0.43	42	2184	0.539	0.058
Dozer	1	7		68%	1.71	0.94	9		0.200	0.110
Maxi Sneeker (Trencher)	5	8	2	68%	4.94	0.53	48	2496	0.616	0.067
Grader	4	7	4	68%	7.90	0.85	28	2912	0.719	0.078
Skid Steer (Bobcat)	4	7		68%	7.17	3.94	27		0.629	0.346
				Grading Total	**16.78**	**1.81**			**1.87**	**0.20**
				Bulldozing Total	**8.87**	**4.88**			**0.83**	**0.46**
				Total	**25.66**	**6.69**			**2.70**	**0.66**

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

Water efficiency from CEQA Table 11-4 maximum value for watering active sites 2 times daily

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

0.00003 lb/ton of PM2.5
0.00022 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	6	6	3,236	68%	0.2268	0.0343	66	1009503	0.035	0.005
Loader	5	6	3,236	68%	0.2268	0.0343	40	1009503	0.035	0.005
Dump Truck	5	12	6,471	68%	0.4536	0.0687	6	2,019,006	0.071	0.011
				Total	**0.91**	**0.14**			**0.14**	**0.02**

Water efficiency from CEQA Table 11-4 maximum value for watering active sites 2 times daily
Assume 50% soil movement from loaders and 50% from backhoes

4,654 yd3/day 6,471 ton/day
1,452,000 yd3/project 2,019,006 tons/project 2781 density of soil (lb/yd3)
(USDA NRCS Physical Soil Properti 0.5 depth of disturbance (yards)
for Niland Fine Sand and Rositas Fine Sand soil)
total project
600 acres = 1,452,000 cubic yds, assume depth of soils moved is
3000 total acres disturbed as described in Table 3-17 of 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	68%	17.95	3.98	1.64	0.36

Water efficiency from CEQA Table 11-4 maximum value for watering active sites 2 times daily
pile size assumed
piles present only for 6 months

Construction on-site fugitive dust PM10 | **Month 6 construction on-site fugitive dust** | **Months 2-13 construction on-site fugitive dust**

Vehicle Type	Number of Vehicles (month 6)	Max Daily Distance per Vehicle (mile/day)	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	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	3	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	6	0	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.00	0.04	0.04
Compactor	4	0	0.00	0.00	0.00	3.95	3.95	0.00	0.00	0.00	0.54	0.54
Crane small	8	0.5	0.45	0.00	1.13		1.58	0.06	0.00	0.15		0.21
Crane large	4	0.5	0.00	0.00	1.99		1.99	0.00	0.00	0.12		0.12
Dozer	1	0	0.00	0.00	0.00	1.71	1.71	0.00	0.00	0.00	0.20	0.20
Generator	5	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Grader	4	0	0.00	0.00	0.00	7.90	7.90	0.00	0.00	0.00	0.72	0.72
Light Tower	2	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Loader	5	0	0.00	0.00	0.00	0.23	0.23	0.00	0.00	0.00	0.04	0.04
Maxi Sneeker (Trencher)	5	0	0.00	0.00	0.00	4.94	4.94	0.00	0.00	0.00	0.62	0.62
Skid Steer (Bobcat)	4	0	0.00	0.00	0.00	7.17	7.17	0.00	0.00	0.00	0.63	0.63
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	0.17	0.00	1.13		1.29	0.02	0.00	0.13		0.15
Fork Lift	8	1	0.15	0.00	1.32		1.46	0.02	0.00	0.20		0.22
Telehandler	6	1	0.11	0.00	0.99		1.10	0.01	0.00	0.08		0.08
Vehicles with Onroad Engines for Emissions Estimates												
Concrete Delivery Truck for general construction	0	7	0.00	0.00	0.00		0.00	0.62	0.00	0.08		0.71
Concrete Delivery Truck for bridge	5	1.6	4.56	0.00	0.62		5.18	0.12	0.00	0.02		0.13
Concrete Pump Truck for bridge	1	0.1	0.06	0.00	0.01		0.06	0.00	0.00	0.00		0.01
Dump Truck	5	6.8	10.78	0.00	13.16	0.45	24.40	1.29	0.00	1.57	0.07	2.93
Flatbed Truck	10	27.2	60.89	0.00	0.00		60.89	9.50	0.00	0.00		9.50
Staff & Security Truck	6	48	6.76	0.00	0.00		6.76	1.05	0.00	0.00		1.05
Pickup Truck	11	6.8	4.00	0.00	1.40		5.40	0.62	0.00	0.22		0.84
Water/Soiltac Truck	7	13.6	15.09	0.00	55.29		70.38	2.21	0.00	8.11		10.33
General Materials Delivery Truck for general cor	3	7	13.31	0.00	0.00		13.31	1.38	0.00	0.00		1.38
General Materials Delivery Truck for bridge	12	1.6	12.17	0.00	0.00		12.17	0.29	0.00	0.00		0.29
Suncatcher Pedestals Delivery Truck	3	7	6.66	0.00	8.13		14.79	0.38	0.00	0.46		0.83
Stirling Engines Delivery Truck	6	7	26.63	0.00	0.00		26.63	4.15	0.00	0.00		4.15
Suncatcher Metal Supports Delivery Truck	11	7	48.82	0.00	0.00		48.82	7.62	0.00	0.00		7.62
Suncatcher Mirrors Delivery Truck	7	7	31.07	0.00	0.00		31.07	4.85	0.00	0.00		4.85
Electrical and Control Systems Delivery Truck	2	7	8.88	0.00	0.00		8.88	1.38	0.00	0.00		1.38
Azimuth and Elevation Drive Delivery Truck	2	7	8.88	0.00	0.00		8.88	1.38	0.00	0.00		1.38
Water Delivery Trucks	0	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Worker Passenger Vehicles	479	9	84.50	0.00	0.00		84.50	8.77	0.00	0.00		8.77
Storage piles						17.95	17.95				1.64	1.64
			343.93	**0.00**	**85.18**	**44.51**	**473.61**	**45.74**	**0.00**	**11.15**	**4.48**	**61.37**

Construction on-site fugitive dust PM2.5 | **Month 6 construction on-site fugitive dust** | **Months 2-13 construction on-site fugitive dust**

Vehicle Type	Number of Vehicles (month 6)	Max Daily Distance per Vehicle (mile/day)	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	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	3	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	6	0	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Compactor	4	0	0.00	0.00	0.00	0.43	0.43	0.00	0.00	0.00	0.06	0.06
Crane small	8	0.5	0.07	0.00	0.11		0.18	0.01	0.00	0.01		0.02
Crane large	4	0.5	0.00	0.00	0.20		0.20	0.00	0.00	0.01		0.01
Dozer	1	0	0.00	0.00	0.00	0.94	0.94	0.00	0.00	0.00	0.11	0.11
Generator	5	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Grader	4	0	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.08	0.08
Light Tower	2	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Loader	5	0	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Maxi Sneeker (Trencher)	5	0	0.00	0.00	0.00	0.53	0.53	0.00	0.00	0.00	0.07	0.07
Skid Steer (Bobcat)	4	0	0.00	0.00	0.00	3.94	3.94	0.00	0.00	0.00	0.35	0.35
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	0.02	0.00	0.11		0.14	0.00	0.00	0.01		0.02
Fork Lift	8	1	0.02	0.00	0.13		0.15	0.00	0.00	0.02		0.02
Telehandler	6	1	0.02	0.00	0.10		0.11	0.00	0.00	0.01		0.01
Vehicles with Onroad Engines for Emissions Estimates												
Concrete Delivery Truck for general construction	0	7	0.00	0.00	0.00		0.00	0.09	0.00	0.01		0.10
Concrete Delivery Truck for bridge	5	1.6	0.68	0.00	0.06		0.74	0.02	0.00	0.00		0.02
Concrete Pump Truck for bridge	1	0.1	0.01	0.00	0.00		0.01	0.00	0.00	0.00		0.00
Dump Truck	5	6.8	1.61	0.00	1.32	0.07	3.00	0.19	0.00	0.16	0.01	0.36
Flatbed Truck	10	27.2	9.06	0.00	0.00		9.06	1.41	0.00	0.00		1.41
Staff & Security Truck	6	48	0.93	0.00	0.00		0.93	0.15	0.00	0.00		0.15
Pickup Truck	11	6.8	0.58	0.00	0.14		0.72	0.09	0.00	0.02		0.11
Water/Soiltac Truck	7	13.6	2.26	0.00	5.53		7.79	0.33	0.00	0.81		1.14
General Materials Delivery Truck for general cor	3	7	1.99	0.00	0.00		1.99	0.21	0.00	0.00		0.21
General Materials Delivery Truck for bridge	12	1.6	1.82	0.00	0.00		1.82	0.04	0.00	0.00		0.04
Suncatcher Pedestals Delivery Truck	3	7	1.00	0.00	0.81		1.81	0.06	0.00	0.05		0.10
Stirling Engines Delivery Truck	6	7	3.98	0.00	0.00		3.98	0.62	0.00	0.00		0.62
Suncatcher Metal Supports Delivery Truck	11	7	7.30	0.00	0.00		7.30	1.14	0.00	0.00		1.14
Suncatcher Mirrors Delivery Truck	7	7	4.65	0.00	0.00		4.65	0.72	0.00	0.00		0.72
Electrical and Control Systems Delivery Truck	2	7	1.33	0.00	0.00		1.33	0.21	0.00	0.00		0.21
Azimuth and Elevation Drive Delivery Truck	2	7	1.33	0.00	0.00		1.33	0.21	0.00	0.00		0.21
Water Delivery Trucks	0	0	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00
Worker Passenger Vehicles	479	9	11.45	0.00	0.00		11.45	1.19	0.00	0.00		1.19
Storage piles						3.98	3.98				0.36	0.36
			50.09	**0.00**	**8.52**	**10.81**	**69.42**	**6.69**	**0.00**	**1.11**	**1.04**	**8.85**

Calico Solar

Combustion Exhaust Emissions Off-site (short-term)

To be consistent with on-site emissions, months 6 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	9.00E-03	3.26E+02	1.04E-01	8.13E-02	3.54E+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/Soiltac 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
Suncatcher Pedestals Delivery Truck	200	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	1.01E-02	8.63E-03	5.55E-02	1.22E-02	2.76E-01	2.94E-04	3.07E+01	9.36E-05	8.81E-05	3.07E+01
Stirling Engines Delivery Truck	160	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	8.11E-03	6.90E-03	4.44E-02	9.72E-03	2.21E-01	2.35E-04	2.45E+01	7.49E-05	7.05E-05	2.46E+01
Suncatcher Metal Supports Delivery Truck	180	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	9.12E-03	7.76E-03	5.00E-02	1.09E-02	2.48E-01	2.64E-04	2.76E+01	8.43E-05	7.93E-05	2.76E+01
Suncatcher Mirrors Delivery Truck	160	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	8.11E-03	6.90E-03	4.44E-02	9.72E-03	2.21E-01	2.35E-04	2.45E+01	7.49E-05	7.05E-05	2.46E+01
Electrical and Control Systems Delivery Truck	200	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	1.01E-02	8.63E-03	5.55E-02	1.22E-02	2.76E-01	2.94E-04	3.07E+01	9.36E-05	8.81E-05	3.07E+01
Azimuth and Elevation Drive Delivery Truck	160	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	8.11E-03	6.90E-03	4.44E-02	9.72E-03	2.21E-01	2.35E-04	2.45E+01	7.49E-05	7.05E-05	2.46E+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-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)
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)											Month 2 Daily Emissions (lb/day)											Month 3 Daily Emissions (lb/day)											Month 4 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	Quantity Mo 2	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	Quantity Mo 3	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	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	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15	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	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	1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57	1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57	1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57	1.00	0.09	0.08	0.49	0.11	2.45	0.00	272.31	0.00	0.00	272.57
Concrete Pump Truck for bridge	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-	-
Dump Truck	3.00	-	-	-	-	-	-	-	-	-	-	8.00	-	-	-	-	-	-	-	-	-	-	8.00	-	-	-	-	-	-	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	2.00	-	-	-	-	-	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-
Water/Soiltac Truck	5.00	-	-	-	-	-	-	-	-	-	-	14.00	-	-	-	-	-	-	-	-	-	-	8.00	-	-	-	-	-	-	-	-	-	-	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	3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72	3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
General Materials Delivery Truck for bridge	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15	2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
Suncatcher Pedestals Delivery Truck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
Stirling Engines Delivery Truck	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
Suncatcher Metal Supports Delivery Truck	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
Suncatcher Mirrors Delivery Truck	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
Electrical and Control Systems Delivery Truck	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
Azimuth and Elevation Drive Delivery Truck	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
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	3,438.89	180.00	0.94	0.52	75.81	2.26	9.07	0.09	8,606.74	2.07	1.90	9,238.58	249.00	1.30	0.72	104.87	3.13	12.54	0.12	11,906.00	2.86	2.63	12,780.03	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	**128.00**	**6.61**	**5.52**	**62.52**	**8.35**	**173.76**	**0.21**	**22,155.16**	**0.83**	**0.76**	**22,408.43**	**270.00**	**7.83**	**6.39**	**113.57**	**10.52**	**196.58**	**0.29**	**29,464.47**	**2.13**	**1.96**	**30,116.22**	**333.00**	**8.19**	**6.59**	**142.63**	**11.39**	**200.06**	**0.32**	**32,763.72**	**2.92**	**2.69**	**33,657.67**	**299.00**	**8.22**	**6.66**	**131.03**	**11.24**	**203.71**	**0.31**	**31,903.33**	**2.58**	**2.37**	**32,692.52**

MONTHLY EMISSIONS (month 21-41)

	Month 21 Daily Emissions (lb/day)											Month 22 Daily Emissions (lb/day)											Month 23 Daily Emissions (lb/day)											Month 24 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	Quantity Mo 22	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	Quantity Mo 23	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flatbed Truck	7.00	-	-	-	-	-	-	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-
Staff & Security Truck	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-	6.00	-	-	-	-	-	-	-	-	-	-
Pickup Truck	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-	-	-
Water/Soiltac Truck	5.00	-	-	-	-	-	-	-	-	-	-	5.00	-	-	-	-	-	-	-	-	-	-	3.00	-	-	-	-	-	-	-	-	-	-	3.00	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for general cons	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Materials Delivery Truck for bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suncatcher Pedestals Delivery Truck	3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05	3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05	3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05	3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
Stirling Engines Delivery Truck	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09	6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
Suncatcher Metal Supports Delivery Truck	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18	11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
Suncatcher Mirrors Delivery Truck	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43	7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
Electrical and Control Systems Delivery Truck	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37	2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
Azimuth and Elevation Drive Delivery Truck	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70	2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
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	208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69	208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69	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	**269.00**	**7.63**	**6.17**	**123.86**	**10.47**	**188.52**	**0.29**	**29,791.30**	**2.46**	**2.26**	**30,543.83**	**268.00**	**7.63**	**6.17**	**123.44**	**10.46**	**188.47**	**0.29**	**29,743.49**	**2.45**	**2.25**	**30,492.50**	**266.00**	**7.63**	**6.17**	**123.44**	**10.46**	**188.47**	**0.29**	**29,743.49**	**2.45**	**2.25**	**30,492.50**	**266.00**	**7.63**	**6.17**	**123.44**	**10.46**	**188.47**	**0.29**	**29,743.49**	**2.45**	**2.25**	**30,492.50**

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	0.09	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	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
219.00	1.14	0.63	92.24	2.75	11.03	0.11	10,471.54	2.51	2.31	11,240.27
296.00	**8.22**	**6.66**	**131.03**	**11.24**	**203.71**	**0.31**	**31,903.33**	**2.58**	**2.37**	**32,692.52**

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	0.45	0.38	2.46	0.54	12.24	0.01	1,361.57	0.00	0.00	1,362.87
1.00	-	-	-	-	-	-	-	-	-	-
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
12.00	1.08	0.92	5.91	1.29	29.38	0.03	3,267.76	0.01	0.01	3,270.88
3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
479.00	2.50	1.39	201.75	6.01	24.13	0.23	22,903.50	5.50	5.05	24,584.88
570.00	**10.84**	**8.49**	**247.44**	**16.01**	**251.08**	**0.48**	**48,147.68**	**5.57**	**5.12**	**49,853.16**

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	0.09	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	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
3.00	0.27	0.23	1.48	0.32	7.34	0.01	816.94	0.00	0.00	817.72
2.00	0.18	0.15	0.99	0.22	4.90	0.01	544.63	0.00	0.00	545.15
3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
487.00	2.54	1.41	205.11	6.11	24.53	0.24	23,286.03	5.59	5.14	24,995.48
562.00	**9.62**	**7.44**	**243.91**	**14.60**	**217.21**	**0.44**	**44,717.82**	**5.65**	**5.20**	**46,447.74**

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	0.24	0.21	1.33	0.29	6.62	0.01	735.98	0.00	0.00	736.68
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
385.00	2.01	1.11	162.15	4.83	19.39	0.19	18,408.87	4.42	4.06	19,760.29
454.00	**8.33**	**6.50**	**196.80**	**12.42**	**191.49**	**0.37**	**37,551.76**	**4.48**	**4.12**	**38,921.45**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	0.73	0.62	4.00	0.87	19.85	0.02	2,207.95	0.01	0.01	2,210.05
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
266.00	**7.63**	**6.17**	**123.44**	**10.46**	**188.47**	**0.29**	**29,743.49**	**2.45**	**2.25**	**30,492.50**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
263.00	**6.90**	**5.55**	**119.44**	**9.58**	**168.62**	**0.27**	**27,535.54**	**2.44**	**2.24**	**28,282.45**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
208.00	1.08	0.60	87.61	2.61	10.48	0.10	9,945.57	2.39	2.19	10,675.69
263.00	**6.90**	**5.55**	**119.44**	**9.58**	**168.62**	**0.27**	**27,535.54**	**2.44**	**2.24**	**28,282.45**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
166.00	0.87	0.48	69.92	2.08	8.36	0.08	7,937.33	1.90	1.75	8,520.02
221.00	**6.68**	**5.43**	**101.75**	**9.05**	**166.50**	**0.25**	**25,527.30**	**1.96**	**1.80**	**26,126.78**

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	-	-	-	-	-	-	-	-	-	-
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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
334.00	1.74	0.97	140.67	4.19	16.82	0.16	15,970.29	3.83	3.52	17,142.69
400.00	**7.82**	**6.14**	**173.99**	**11.49**	**182.31**	**0.34**	**34,377.20**	**3.89**	**3.58**	**35,567.17**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
365.00	**7.40**	**5.83**	**160.30**	**10.80**	**173.50**	**0.32**	**32,173.62**	**3.55**	**3.27**	**33,261.02**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
365.00	**7.40**	**5.83**	**160.30**	**10.80**	**173.50**	**0.32**	**32,173.62**	**3.55**	**3.27**	**33,261.02**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
305.00	1.59	0.88	128.46	3.83	15.36	0.15	14,583.65	3.50	3.22	15,654.25
365.00	**7.40**	**5.83**	**160.30**	**10.80**	**173.50**	**0.32**	**32,173.62**	**3.55**	**3.27**	**33,261.02**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
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	**6.68**	**5.43**	**101.75**	**9.05**	**166.50**	**0.25**	**25,527.30**	**1.96**	**1.80**	**26,126.78**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
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	**6.68**	**5.43**	**101.75**	**9.05**	**166.50**	**0.25**	**25,527.30**	**1.96**	**1.80**	**26,126.78**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
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	**6.68**	**5.43**	**101.75**	**9.05**	**166.50**	**0.25**	**25,527.30**	**1.96**	**1.80**	**26,126.78**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
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	**6.68**	**5.43**	**101.75**	**9.05**	**166.50**	**0.25**	**25,527.30**	**1.96**	**1.80**	**26,126.78**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
357.00	1.86	1.03	150.36	4.48	17.98	0.17	17,070.04	4.10	3.76	18,323.18
417.00	**7.67**	**5.98**	**182.20**	**11.45**	**176.12**	**0.34**	**34,660.01**	**4.15**	**3.82**	**35,929.94**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
341.00	1.78	0.99	143.62	4.28	17.17	0.17	16,305.00	3.91	3.60	17,501.97
404.00	**7.59**	**5.93**	**175.46**	**11.25**	**175.31**	**0.34**	**33,894.97**	**3.97**	**3.65**	**35,108.73**

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	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
347.00	1.81	1.00	146.15	4.36	17.48	0.17	16,591.89	3.98	3.66	17,809.92
409.00	**7.62**	**5.95**	**177.99**	**11.33**	**175.62**	**0.34**	**34,181.86**	**4.04**	**3.71**	**35,416.68**

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	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
332.00	1.73	0.96	139.83	4.17	16.72	0.16	15,874.66	3.81	3.50	17,040.04
394.00	**7.54**	**5.91**	**171.67**	**11.14**	**174.86**	**0.33**	**33,464.63**	**3.86**	**3.55**	**34,646.80**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
325.00	1.70	0.94	136.88	4.08	16.37	0.16	15,539.96	3.73	3.43	16,680.76
385.00	**7.51**	**5.89**	**168.72**	**11.05**	**174.51**	**0.33**	**33,129.92**	**3.78**	**3.48**	**34,287.52**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
243.00	**6.80**	**5.50**	**111.86**	**9.35**	**167.71**	**0.26**	**26,674.87**	**2.23**	**2.05**	**27,358.59**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
243.00	**6.80**	**5.50**	**111.86**	**9.35**	**167.71**	**0.26**	**26,674.87**	**2.23**	**2.05**	**27,358.59**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
190.00	0.99	0.55	80.02	2.38	9.57	0.09	9,084.90	2.18	2.00	9,751.83
243.00	**6.80**	**5.50**	**111.86**	**9.35**	**167.71**	**0.26**	**26,674.87**	**2.23**	**2.05**	**27,358.59**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
1.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
206.00	**6.61**	**5.39**	**96.28**	**8.89**	**165.85**	**0.24**	**24,905.70**	**1.81**	**1.66**	**25,459.55**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
201.00	**6.61**	**5.39**	**96.28**	**8.89**	**165.85**	**0.24**	**24,905.70**	**1.81**	**1.66**	**25,459.55**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
280.00	1.46	0.81	117.93	3.51	14.10	0.14	13,388.27	3.21	2.95	14,371.12
340.00	**7.27**	**5.76**	**149.77**	**10.48**	**172.24**	**0.31**	**30,978.24**	**3.27**	**3.00**	**31,977.88**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
247.00	1.29	0.71	104.03	3.10	12.44	0.12	11,810.37	2.83	2.60	12,677.38
305.00	**7.10**	**5.66**	**135.87**	**10.07**	**170.58**	**0.29**	**29,400.33**	**2.89**	**2.66**	**30,284.14**

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
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	-	-	-	-	-	-
6.00	-	-	-	-	-	-	-	-	-	-
11.00	-	-	-	-	-	-	-	-	-	-
5.00	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
6.00	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
226.00	1.18	0.65	95.19	2.84	11.38	0.11	10,806.25	2.59	2.38	11,599.55
284.00	**6.99**	**5.60**	**127.03**	**9.81**	**169.52**	**0.28**	**28,396.21**	**2.65**	**2.43**	**29,206.31**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
201.00	**6.61**	**5.39**	**96.28**	**8.89**	**165.85**	**0.24**	**24,905.70**	**1.81**	**1.66**	**25,459.55**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
153.00	0.80	0.44	64.44	1.92	7.71	0.07	7,315.73	1.76	1.61	7,852.79
201.00	**6.61**	**5.39**	**96.28**	**8.89**	**165.85**	**0.24**	**24,905.70**	**1.81**	**1.66**	**25,459.55**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
152.00	0.79	0.44	64.02	1.91	7.66	0.07	7,267.92	1.74	1.60	7,801.46
200.00	**6.60**	**5.39**	**95.86**	**8.88**	**165.80**	**0.24**	**24,857.89**	**1.80**	**1.65**	**25,408.23**

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	1.17	0.99	6.39	1.40	31.76	0.03	3,532.71	0.01	0.01	3,536.09
11.00	2.41	2.05	13.19	2.89	65.51	0.07	7,286.22	0.02	0.02	7,293.18
7.00	1.36	1.16	7.46	1.63	37.05	0.04	4,121.50	0.01	0.01	4,125.43
2.00	0.49	0.41	2.66	0.58	13.23	0.01	1,471.96	0.00	0.00	1,473.37
2.00	0.39	0.33	2.13	0.47	10.59	0.01	1,177.57	0.00	0.00	1,178.70
-	-	-	-	-	-	-	-	-	-	-
152.00	0.79	0.44	64.02	1.91	7.66	0.07	7,267.92	1.74	1.60	7,801.46
200.00	**6.60**	**5.39**	**95.86**	**8.88**	**165.80**	**0.24**	**24,857.89**	**1.80**	**1.65**	**25,408.23**

Monthly Comparison of Construction Equipment Emissions:

		Daily Emissions (lb/day)									
Month of Contruction	Total Equipment Quantity	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	128	6.61	5.52	62.52	8.35	173.76	0.21	22155.16	0.83	0.761	22408.43
2	270	7.83	6.39	113.57	10.52	196.58	0.29	29464.47	2.13	1.958	30116.22
3	333	8.19	6.59	142.63	11.39	200.06	0.32	32763.72	2.92	2.686	33657.67
4	299	8.22	6.66	131.03	11.24	203.71	0.31	31903.33	2.58	2.371	32692.52
5	296	8.22	6.66	131.03	11.24	203.71	0.31	31903.33	2.58	2.371	32692.52
6	570	10.84	8.49	247.44	16.01	251.08	0.48	48147.68	5.57	5.124	49853.16
7	562	9.62	7.44	243.91	14.60	217.21	0.44	44717.82	5.65	5.197	46447.74
8	454	8.33	6.50	196.80	12.42	191.49	0.37	37551.76	4.48	4.115	38921.45
9	400	7.82	6.14	173.99	11.49	182.31	0.34	34377.20	3.89	3.575	35567.17
10	365	7.40	5.83	160.30	10.80	173.50	0.32	32173.62	3.55	3.267	33261.02
11	365	7.40	5.83	160.30	10.80	173.50	0.32	32173.62	3.55	3.267	33261.02
12	365	7.40	5.83	160.30	10.80	173.50	0.32	32173.62	3.55	3.267	33261.02
13	417	7.67	5.98	182.20	11.45	176.12	0.34	34660.01	4.15	3.815	35929.94
14	404	7.59	5.93	175.46	11.25	175.31	0.34	33894.97	3.97	3.647	35108.73
15	409	7.62	5.95	177.99	11.33	175.62	0.34	34181.86	4.04	3.710	35416.68
16	394	7.54	5.91	171.67	11.14	174.86	0.33	33464.63	3.86	3.552	34646.80
17	385	7.51	5.89	168.72	11.05	174.51	0.33	33129.92	3.78	3.478	34287.52
18	340	7.27	5.76	149.77	10.48	172.24	0.31	30978.24	3.27	3.003	31977.88
19	305	7.10	5.66	135.87	10.07	170.58	0.29	29400.33	2.89	2.655	30284.14
20	284	6.99	5.60	127.03	9.81	169.52	0.28	28396.21	2.65	2.434	29206.31
21	269	7.63	6.17	123.86	10.47	188.52	0.29	29791.30	2.46	2.261	30543.83
22	268	7.63	6.17	123.44	10.46	188.47	0.29	29743.49	2.45	2.250	30492.50
23	266	7.63	6.17	123.44	10.46	188.47	0.29	29743.49	2.45	2.250	30492.50
24	266	7.63	6.17	123.44	10.46	188.47	0.29	29743.49	2.45	2.250	30492.50
25	266	7.63	6.17	123.44	10.46	188.47	0.29	29743.49	2.45	2.250	30492.50
26	263	6.90	5.55	119.44	9.58	168.62	0.27	27535.54	2.44	2.244	28282.45
27	263	6.90	5.55	119.44	9.58	168.62	0.27	27535.54	2.44	2.244	28282.45
28	221	6.68	5.43	101.75	9.05	166.50	0.25	25527.30	1.96	1.801	26126.78
29	219	6.68	5.43	101.75	9.05	166.50	0.25	25527.30	1.96	1.801	26126.78
30	219	6.68	5.43	101.75	9.05	166.50	0.25	25527.30	1.96	1.801	26126.78
31	219	6.68	5.43	101.75	9.05	166.50	0.25	25527.30	1.96	1.801	26126.78
32	219	6.68	5.43	101.75	9.05	166.50	0.25	25527.30	1.96	1.801	26126.78
33	243	6.80	5.50	111.86	9.35	167.71	0.26	26674.87	2.23	2.054	27358.59
34	243	6.80	5.50	111.86	9.35	167.71	0.26	26674.87	2.23	2.054	27358.59
35	243	6.80	5.50	111.86	9.35	167.71	0.26	26674.87	2.23	2.054	27358.59
36	206	6.61	5.39	96.28	8.89	165.85	0.24	24905.70	1.81	1.664	25459.55
37	201	6.61	5.39	96.28	8.89	165.85	0.24	24905.70	1.81	1.664	25459.55
38	201	6.61	5.39	96.28	8.89	165.85	0.24	24905.70	1.81	1.664	25459.55
39	201	6.61	5.39	96.28	8.89	165.85	0.24	24905.70	1.81	1.664	25459.55
40	200	6.60	5.39	95.86	8.88	165.80	0.24	24857.89	1.80	1.654	25408.23
41	200	6.60	5.39	95.86	8.88	165.80	0.24	24857.89	1.80	1.654	25408.23
MAX VALUE (lb/day)	**570**	**10.84**	**8.49**	**247.44**	**16.01**	**251.08**	**0.48**	**48147.7**	**5.65**	**5.197**	**49853.2**

		Annual Emissions (ton/year)									
Months for Annual Contruction		PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_2	CO_2	CH_4	N_2O	CO_2e
1	12	1.27	1.01	25.01	1.82	30.43	0.052	5323.57	0.54	0.4935	5487.82
2	13	1.29	1.02	26.57	1.86	30.46	0.054	5486.13	0.58	0.5332	5663.60
3	14	1.28	1.01	27.37	1.87	30.18	0.055	5543.73	0.60	0.5551	5728.50
4	15	1.28	1.00	27.83	1.86	29.86	0.055	5562.16	0.62	0.5685	5751.37
5	16	1.27	0.99	28.36	1.86	29.49	0.055	5582.46	0.64	0.5838	5776.77
6	17	1.26	0.98	28.85	1.86	29.11	0.055	5598.41	0.65	0.5982	5797.51
7	18	1.21	0.95	27.58	1.79	28.08	0.053	5375.20	0.62	0.5706	5565.13
8	19	1.18	0.93	26.17	1.73	27.48	0.051	5176.08	0.58	0.5376	5355.00
9	20	1.16	0.91	25.27	1.70	27.19	0.050	5057.06	0.56	0.5157	5228.71
10	21	1.16	0.91	24.62	1.68	27.27	0.049	4997.44	0.54	0.4986	5163.40
11	22	1.16	0.92	24.14	1.68	27.47	0.049	4965.85	0.53	0.4854	5127.41
12	23	1.16	0.92	23.66	1.67	27.66	0.049	4934.25	0.51	0.4722	5091.42
13	24	1.17	0.93	23.18	1.67	27.85	0.048	4902.66	0.50	0.4590	5055.43
14	25	1.17	0.93	22.41	1.66	28.02	0.048	4838.75	0.48	0.4386	4984.74
15	26	1.16	0.93	21.69	1.63	27.93	0.047	4756.08	0.46	0.4204	4896.00
16	27	1.15	0.92	20.92	1.61	27.84	0.046	4669.67	0.44	0.4013	4803.26
17	28	1.14	0.91	20.02	1.58	27.73	0.045	4566.49	0.41	0.3786	4692.50
18	29	1.13	0.91	19.14	1.56	27.62	0.044	4467.65	0.39	0.3568	4586.41
19	30	1.12	0.90	18.52	1.54	27.55	0.043	4396.79	0.37	0.3412	4510.34
20	31	1.11	0.90	18.08	1.53	27.50	0.043	4346.44	0.36	0.3301	4456.30
21	32	1.11	0.90	17.75	1.52	27.46	0.042	4309.15	0.35	0.3218	4416.26
22	33	1.10	0.89	17.59	1.50	27.19	0.042	4268.63	0.35	0.3191	4374.86
23	34	1.09	0.88	17.44	1.49	26.92	0.041	4228.74	0.34	0.3166	4334.12
24	35	1.08	0.87	17.29	1.47	26.65	0.041	4188.85	0.34	0.3140	4293.37
25	36	1.06	0.86	16.94	1.45	26.35	0.040	4125.96	0.33	0.3064	4227.95
26	37	1.05	0.85	16.59	1.43	26.06	0.040	4063.07	0.32	0.2988	4162.52
27	38	1.05	0.85	16.28	1.42	26.02	0.039	4028.88	0.32	0.2913	4125.82
28	39	1.04	0.85	15.98	1.42	25.99	0.039	3994.69	0.31	0.2837	4089.12
29	40	1.04	0.85	15.91	1.41	25.98	0.039	3985.99	0.31	0.2818	4079.78
30	41	1.04	0.85	15.83	1.41	25.97	0.039	3977.29	0.30	0.2799	4070.44
MAX VALUE (ton/year)		**1.29**	**1.02**	**28.85**	**1.87**	**30.46**	**0.06**	**5598.41**	**0.65**	**0.5982**	**5797.51**

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	10	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	0.06	0.01	0.32	0.00	35.40	0.00	0.00	35.43	11	0.01	0.01	0.07	0.02	0.35	0.00	38.94	0.00	0.00	38.98
Concrete Pump Truck for bridge	6	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	46	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	56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flatbed Truck	120	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	310	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/Soiltac Truck	79	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	160	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	22	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	0.14	0.03	0.70	0.00	77.88	0.00	0.00	77.96	24	0.03	0.02	0.15	0.03	0.76	0.00	84.96	0.00	0.00	85.04
Suncatcher Pedestals Delivery Truck	13	24	0.010	0.009	0.056	0.012	0.276	0.000	30.666	0.000	0.000	30.695	0.04	0.03	0.23	0.05	1.12	0.00	124.38	0.00	0.00	124.50	28	0.09	0.08	0.48	0.11	2.41	0.00	267.90	0.00	0.00	268.15
Stirling Engines Delivery Truck	72	24	0.008	0.007	0.044	0.010	0.221	0.000	24.533	0.000	0.000	24.556	0.18	0.16	1.00	0.22	4.95	0.01	551.10	0.00	0.00	551.63	246	0.62	0.53	3.41	0.75	16.93	0.02	1882.94	0.01	0.01	1884.73
Suncatcher Metal Supports Delivery Truck	132	24	0.009	0.008	0.050	0.011	0.248	0.000	27.599	0.000	0.000	27.626	0.38	0.32	2.06	0.45	10.22	0.01	1136.65	0.00	0.00	1137.74	451	1.28	1.09	7.03	1.54	34.91	0.04	3883.56	0.01	0.01	3887.26
Suncatcher Mirrors Delivery Truck	84	24	0.008	0.007	0.044	0.010	0.221	0.000	24.533	0.000	0.000	24.556	0.21	0.18	1.16	0.25	5.78	0.01	642.95	0.00	0.00	643.57	287	0.73	0.62	3.98	0.87	19.75	0.02	2196.76	0.01	0.01	2198.86
Electrical and Control Systems Delivery Truck	24	24	0.010	0.009	0.056	0.012	0.276	0.000	30.666	0.000	0.000	30.695	0.08	0.06	0.42	0.09	2.06	0.00	229.63	0.00	0.00	229.85	82	0.26	0.22	1.42	0.31	7.05	0.01	784.56	0.00	0.00	785.31
Azimuth and Elevation Drive Delivery Truck	24	24	0.008	0.007	0.044	0.010	0.221	0.000	24.533	0.000	0.000	24.556	0.06	0.05	0.33	0.07	1.65	0.00	183.70	0.00	0.00	183.88	82	0.21	0.18	1.14	0.25	5.64	0.01	627.65	0.00	0.00	628.24
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	3824	24	0.000	0.000	0.018	0.001	0.002	0.000	1.992	0.000	0.000	2.139	0.26	0.14	20.94	0.62	2.50	0.02	2376.99	0.57	0.52	2551.49	9762	0.66	0.37	53.45	1.59	6.39	0.06	6068.04	1.46	1.34	6513.50
											Total		**1.29**	**1.02**	**26.57**	**1.86**	**30.46**	**0.05**	**5486.13**	**0.58**	**0.53**	**5663.60**		**3.93**	**3.15**	**71.37**	**5.52**	**95.41**	**0.16**	**15969.82**	**1.49**	**1.37**	**16424.73**

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 6 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

$E = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C] (1 - P/4N)$ EPA AP-42 Section 13.2.1 Paved Roads Equation 2

E = particulate emission factor (lb/VMT),
k = particle size multiplier for particle size range and units of interest

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
C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.

constants

	$PM_{2.5}$	PM_{10}
k	0.0024	0.016
C	0.00036	0.00047

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 6)	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	0.002	0.013
Concrete Delivery Truck for bridge	5	10	74	370	19240	20	12	26	0.002	0.013
Concrete Pump Truck for bridge	1	6	0	0	0	20	12	26	0.002	0.013
Dump Truck	5	46	0	0	0	20	12	26	0.002	0.013
Flatbed Truck	10	120	0	0	0	10	12	26	0.000	0.004
Staff & Security Truck	6	72	0	0	0	2.25	24	26	0.000	0.000
Pickup Truck	11	132	0	0	0	4	12	26	0.000	0.001
Water/Soiltac Truck	7	79	0	0	0	20	12	26	0.002	0.013
General Materials Delivery Truck for general construc	3	24	74	222	46176	20	24	26	0.002	0.013
General Materials Delivery Truck for bridge	12	22	74	888	42328	20	24	26	0.002	0.013
Suncatcher Pedestals Delivery Truck	3	13	200	600	67600	20	24	26	0.002	0.013
Stirling Engines Delivery Truck	6	72	160	960	299520	20	24	26	0.002	0.013
Suncatcher Metal Supports Delivery Truck	11	132	180	1980	617760	20	24	26	0.002	0.013
Suncatcher Mirrors Delivery Truck	7	84	160	1120	349440	20	24	26	0.002	0.013
Electrical and Control Systems Delivery Truck	2	24	200	400	124800	20	24	26	0.002	0.013
Azimuth and Elevation Drive Delivery Truck	2	24	160	320	99840	20	24	26	0.002	0.013
Water Delivery Trucks	0	0	0	0	0	0	24	26	0.000	0.000
Worker Passenger Vehicles	479	3824	74	35446	7357376	2	24	26	6.44E-05	4.30E-04

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%	0.15	0.15	0.00	0.00	0.00	0.00	0.02	0.02
Concrete Delivery Truck for bridge	0%	0%	0.40	0.40	4.86	4.86	4.61%	0.13	0.13	0.05	0.05	0.62	0.62	0.02	0.02
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/Soiltac 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%	0.12	0.12	2.91	2.91	2.77%	0.30	0.30	0.02	0.02	0.37	0.37	0.04	0.04
General Materials Delivery Truck for bridge	0%	0%	0.49	0.49	11.65	11.65	11.07%	0.28	0.28	0.06	0.06	1.49	1.49	0.04	0.04
Suncatcher Pedestals Delivery Truck	0%	0%	0.33	0.33	7.87	7.87	7.48%	0.44	0.44	0.04	0.04	1.01	1.01	0.06	0.06
Stirling Engines Delivery Truck	0%	0%	0.52	0.52	12.60	12.60	11.97%	1.97	1.97	0.07	0.07	1.62	1.62	0.25	0.25
Suncatcher Metal Supports Delivery Truck	0%	0%	1.08	1.08	25.98	25.98	24.69%	4.05	4.05	0.14	0.14	3.33	3.33	0.52	0.52
Suncatcher Mirrors Delivery Truck	0%	0%	0.61	0.61	14.70	14.70	13.96%	2.29	2.29	0.08	0.08	1.89	1.89	0.29	0.29
Electrical and Control Systems Delivery Truck	0%	0%	0.22	0.22	5.25	5.25	4.99%	0.82	0.82	0.03	0.03	0.67	0.67	0.11	0.11
Azimuth and Elevation Drive Delivery Truck	0%	0%	0.17	0.17	4.20	4.20	3.99%	0.66	0.66	0.02	0.02	0.54	0.54	0.08	0.08
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%	0.63	0.63	15.23	15.23	14.47%	1.58	1.58	0.10	0.10	2.28	2.28	0.24	0.24
TOTAL Fugitive emissions for vehicle travel offsite paved roads			**4.59**	**4.59**	**105.25**	**105.25**		**12.67**	**12.67**	**0.60**	**0.60**	**13.83**	**13.83**	**1.66**	**1.66**

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

Title : Solar 1 - construction
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2009/07/20 11:14:26
Scen Year: 2010 -- All model years in the range 1970 to 2010 selected
Season : Annual
Area : Mojave Desert AQMD
****

Year: 2010 -- Model Years 1970 to 2010 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

District Average District Average Mojave Desert AQMD

Table 1: Running Exhaust Emissions (grams/mile; grams/idle-hour)

Pollutant Name: Reactive Org Gases Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.205	24.278	3.173	18.897	22.205	23.591	3.173	13.039	22.205	23.578	3.173	6.173	0	0	12.427	12.315	22.205	22.362	3.173	14.913	0	0	0	0	0	0	0	0	22.205	23.151	3.173	4.12	0	0	0	0	0.12	0.552	10.984	2.635
10	14.202	0.289	0.376	0.347	14.686	0.513	0.159	0.717	14.847	0.369	0.271	0.452	18.717	0.358	0.159	0.446	11.869	0.354	0.285	0.352	11.869	0.684	0.406	0.575	17.854	1.769	0.453	0.689	62.152	6.908	5.905	5.916	17.854	2.488	0.573	1.803	0	5.369	1.005	3.525	4.307	2.953	0	3.79	17.854	8.128	0.804	1.23	17.854	1.471	0.227	1.976	7.828	0.398	5.13	1.464
50	4.751	0.058	0.12	0.077	4.915	0.114	0.051	0.187	4.97	0.077	0.086	0.105	6.282	0.071	0.051	0.1	1.717	0.05	0.091	0.062	1.717	0.094	0.129	0.117	2.621	0.246	0.144	0.165	9.324	0.989	0.662	0.665	2.621	0.328	0.182	0.28	0	0.792	0.272	0.572	3.322	1.755	0	2.723	2.621	1.18	0.256	0.312	2.621	0.199	0.072	0.28	3.832	0.09	0.585	0.248

Pollutant Name: Carbon Monoxide Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137.652	145.041	26.3	114.773	137.652	142.592	26.3	82.499	137.652	142.545	26.3	43.396	0	0	48.228	47.79	137.652	138.21	26.3	94.772	0	0	0	0	0	0	0	0	137.652	141.023	26.3	31.753	0	0	0	0	0.741	3.31	43.912	11.402
10	111.78	4.601	2.001	5.039	115.265	8.92	1.491	10.166	115.224	6.065	1.792	6.681	222.495	5.139	1.463	6.174	217.08	3.745	1.873	3.55	217.08	7.591	2.188	5.439	325.62	19.825	5.221	8.173	1591.863	101.375	12.495	13.352	325.62	31.47	6.316	22.821	0	37.206	4.779	23.505	32.594	14.82	0	25.802	325.62	69.54	8.975	13.863	325.62	33.055	2.613	41.18	65.76	6.086	11.217	8.063
50	57.364	2.36	0.526	2.584	59.152	4.466	0.392	5.092	59.131	3.077	0.471	3.392	114.181	2.637	0.385	3.166	60.356	1.041	0.492	0.98	60.356	2.111	0.575	1.495	90.535	5.512	1.373	2.205	442.598	28.186	3.024	3.267	90.535	8.75	1.66	6.308	0	10.345	1.021	6.405	42.989	13.359	0	31.665	90.535	19.335	2.36	3.725	90.535	9.191	0.687	11.445	50.169	3.024	2.724	3.714

Pollutant Name: Oxides of Nitrogen Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.458	1.598	75.051	20.315	1.458	1.551	75.051	39.522	1.458	1.55	75.051	64.233	0	0	110.403	109.401	1.458	1.469	75.051	30.028	0	0	0	0	0	0	0	0	1.458	1.522	75.051	71.539	0	0	0	0	0.008	0.036	101.889	20.437
10	3.721	0.454	1.824	0.47	3.662	0.863	1.851	0.967	3.678	0.873	1.815	0.892	6.252	0.848	1.866	0.879	1.921	0.32	5.069	1.532	1.921	0.6	6.414	3.608	2.882	1.701	9.307	8.191	20.94	6.818	27.866	27.675	2.882	3.626	11.599	6.718	0	3.954	15.39	8.786	1.142	1.236	0	1.178	2.882	3.399	18.086	17.381	2.882	1.514	11.841	2.682	2.037	0.683	24.892	5.553
50	5.297	0.287	1.47	0.309	5.212	0.563	1.492	0.692	5.235	0.546	1.463	0.576	8.9	0.532	1.503	0.576	2.663	0.443	4.084	1.374	2.663	0.831	5.168	3.077	3.995	2.357	7.499	6.747	29.023	9.449	15.02	14.97	3.995	5.026	9.346	6.698	0	5.48	10.91	7.775	1.586	1.215	0	1.444	3.995	4.711	14.573	14.096	3.995	2.098	9.541	2.976	2.87	0.463	13.659	3.144

Pollutant Name: Carbon Dioxide Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4776.9	4776.9	4098	4603.896	4776.9	4776.899	4098	4426.172	4776.899	4776.899	4097.999	4197.918	0	0	6617.134	6557.045	4776.9	4776.9	4098	4513.396	0	0	0	0	0	0	0	0	4776.9	4776.9	4098	4130.425	0	0	0	0	25.717	109.627	6070.009	1302.131
10	992.919	721.665	360.78	722.118	995.718	896.942	346.668	865.564	995.712	897.586	353.701	896.712	1228.158	1226.862	347.557	1223.128	1672.267	1672.267	519.521	1378.514	1672.267	1672.267	526.92	1080.567	1672.267	1672.267	1505	1529.618	1672.267	1672.267	3165.447	3151.887	1672.267	1672.267	1505	1607.345	0	1672.267	2432.723	1993.587	195.022	223.718	0	205.989	1672.267	1672.267	1505	1512.989	1672.267	1672.267	1505	1654.211	473.833	869.625	2845.762	1259.141
50	402.817	292.772	360.78	293.353	403.952	363.879	346.668	363.486	403.95	364.141	353.701	364.342	498.251	497.725	347.557	497.088	464.953	464.953	519.521	478.858	464.953	464.953	526.92	496.966	464.953	464.953	1505	1351.928	464.953	464.953	1670.679	1659.73	464.953	464.953	1505	868.63	0	464.953	2432.723	1296.407	97.623	162.112	0	122.268	464.953	464.953	1505	1455.327	464.953	464.953	1505	577.226	201.308	347.006	1559.739	587.594

Pollutant Name: Sulfur Dioxide Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.049	0.049	0.039	0.046	0.049	0.049	0.039	0.044	0.049	0.049	0.039	0.041	0	0	0.063	0.063	0.049	0.049	0.039	0.045	0	0	0	0	0	0	0	0	0.049	0.049	0.039	0.04	0	0	0	0	0	0.001	0.058	0.012
10	0.012	0.007	0.003	0.007	0.012	0.009	0.003	0.008	0.012	0.009	0.003	0.009	0.016	0.012	0.003	0.012	0.02	0.016	0.005	0.013	0.02	0.016	0.005	0.01	0.022	0.016	0.014	0.015	0.042	0.018	0.03	0.03	0.022	0.017	0.014	0.016	0	0.017	0.023	0.02	0.002	0.002	0	0.002	0.022	0.017	0.014	0.015	0.022	0.017	0.014	0.017	0.006	0.008	0.027	0.012
50	0.005	0.003	0.003	0.003	0.005	0.004	0.003	0.004	0.005	0.004	0.003	0.004	0.007	0.005	0.003	0.005	0.005	0.004	0.005	0.005	0.005	0.004	0.005	0.005	0.006	0.005	0.014	0.013	0.011	0.005	0.016	0.016	0.006	0.005	0.014	0.008	0	0.005	0.023	0.012	0.002	0.002	0	0.002	0.006	0.005	0.014	0.014	0.006	0.005	0.014	0.006	0.003	0.003	0.015	0.006

Pollutant Name: PM10 Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.756	0.193	0	0	0.883	0.456	0	0	0.976	0.833	0	0	1.777	1.761	0	0	1.489	0.578	0	0	0	0	0	0	0	0	0	0	1.215	1.157	0	0	0	0	0	0	1.615	0.323
10	0.074	0.051	0.283	0.051	0.072	0.06	0.103	0.063	0.075	0.11	0.196	0.11	0.076	0.094	0.105	0.094	0.066	0.017	0.075	0.032	0.066	0.024	0.096	0.061	0.066	0.034	0.555	0.478	0.066	0.056	1.63	1.615	0.066	0.049	0.699	0.302	0	0.053	0.407	0.203	0.063	0.004	0	0.041	0.066	0.05	1.114	1.063	0.066	0.012	0.405	0.056	0.067	0.069	1.446	0.345
50	0.025	0.011	0.09	0.011	0.024	0.013	0.033	0.015	0.025	0.024	0.063	0.024	0.026	0.02	0.033	0.02	0.01	0.003	0.024	0.008	0.01	0.004	0.03	0.018	0.01	0.005	0.177	0.152	0.01	0.008	0.488	0.484	0.01	0.007	0.223	0.091	0	0.008	0.11	0.051	0.049	0.002	0	0.031	0.01	0.008	0.355	0.338	0.01	0.002	0.129	0.016	0.041	0.015	0.434	0.099

Pollutant Name: PM10 - Tire Wear Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.036	0.036	0.012	0.012	0.012	0.012	0	0.012	0.008	0.01	0.004	0.004	0	0.004	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.005	0.008	0.032	0.013
50	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.036	0.036	0.012	0.012	0.012	0.012	0	0.012	0.008	0.01	0.004	0.004	0	0.004	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.005	0.008	0.032	0.013

Pollutant Name: PM10 - Break Wear Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.028	0.028	0.028	0.028	0.013	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.006	0	0.006	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.008	0.013	0.026	0.015
50	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.028	0.028	0.028	0.028	0.013	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.006	0	0.006	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.008	0.013	0.026	0.015

Pollutant Name: Gasoline - mi/gal Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	7.301	12.14	0	12.12	7.243	9.708	0	9.667	7.24	9.754	0	9.74	5.413	7.168	0	7.159	4.32	5.277	0	5.275	4.32	5.254	0	5.248	3.955	5.185	0	5.163	2.028	4.78	0	4.77	3.955	5.123	0	5.115	0	5.07	0	5.07	34.065	34.531	0	34.243	3.955	4.903	0	4.748	3.955	5.125	0	5.074	25.193	10.653	0	10.942
50	17.435	29.864	0	29.813	17.283	23.863	0	23.752	17.279	23.996	0	23.957	12.699	17.646	0	17.622	15.67	18.984	0	18.978	15.67	18.91	0	18.889	14.39	18.676	0	18.599	7.445	17.287	0	17.252	14.39	18.464	0	18.439	0	18.316	0	18.316	50.361	46.901	0	49.039	14.39	17.749	0	17.201	14.39	18.456	0	18.279	39.382	26.061	0	26.326

Pollutant Name: Diesel - mi/gal Temperature: 70F Relative Humidity: 20%

Speed MPH	LDA NCAT	LDA CAT	LDA DSL	LDA ALL	LDT1 NCAT	LDT1 CAT	LDT1 DSL	LDT1 ALL	LDT2 NCAT	LDT2 CAT	LDT2 DSL	LDT2 ALL	MDV NCAT	MDV CAT	MDV DSL	MDV ALL	LHD1 NCAT	LHD1 CAT	LHD1 DSL	LHD1 ALL	LHD2 NCAT	LHD2 CAT	LHD2 DSL	LHD2 ALL	MHD NCAT	MHD CAT	MHD DSL	MHD ALL	HHD NCAT	HHD CAT	HHD DSL	HHD ALL	OBUS NCAT	OBUS CAT	OBUS DSL	OBUS ALL	UBUS NCAT	UBUS CAT	UBUS DSL	UBUS ALL	MCY NCAT	MCY CAT	MCY DSL	MCY ALL	SBUS NCAT	SBUS CAT	SBUS DSL	SBUS ALL	MH NCAT	MH CAT	MH DSL	MH ALL	ALL NCAT	ALL CAT	ALL DSL	ALL ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	27.939	27.939	0	0	29.076	29.076	0	0	28.498	28.498	0	0	29.002	29.002	0	0	19.402	19.402	0	0	19.13	19.13	0	0	6.698	6.698	0	0	3.184	3.184	0	0	6.698	6.698	0	0	4.143	4.143	0	0	0	0	0	0	6.698	6.698	0	0	6.698	6.698	0	0	5.141	5.141
50	0	0	27.939	27.939	0	0	29.076	29.076	0	0	28.498	28.498	0	0	29.002	29.002	0	0	19.402	19.402	0	0	19.13	19.13	0	0	6.698	6.698	0	0	6.033	6.033	0	0	6.698	6.698	0	0	4.143	4.143	0	0	0	0	0	0	6.698	6.698	0	0	6.698	6.698	0	0	7.592	7.592

For on-site activity (mean vehicle speed = 10 mph, Temperature: 70F, Relative Humidity: 20%)

	Emission Factors (g/mile)									**Assumptions for CH$_4$ and N$_2$O from Reference sources TAB**
	PM$_{10}$	**PM$_{2.5}$**	**CO**	**ROG**	**NO$_x$**	**SO$_x$**	**CO$_2$**	**CH$_4$**	**N$_2$O**	
LDA-ALL	0.0720	0.0547	5.0390	0.3470	0.4700	0.0070	722.1180	0.0704	0.0647	Passenger Cars - Gasoline - model years 1985-present (highest)
MHD-DSL	0.5800	0.5192	5.2210	0.4530	9.3070	0.0140	1505.0000	0.0011	0.0017	Medium Heavy Duty Truck - Diesel - model years 1960-present (highest)
HHD-DSL	1.6940	1.5206	12.4950	5.9050	27.8660	0.0300	3165.4470	0.0051	0.0048	Heavy Duty Trucks - Diesel - all model years (highest)

For off-site activity (mean vehicle speed = 50 mph, Temperature: 70F, Relative Humidity: 20%)

	Emission Factors (g/mile)									**Assumptions for CH$_4$ and N$_2$O from Reference sources TAB**
	PM$_{10}$	**PM$_{2.5}$**	**CO**	**ROG**	**NO$_x$**	**SO$_x$**	**CO$_2$**	**CH$_4$**	**N$_2$O**	
LDA-ALL	0.0320	0.0177	2.5840	0.0770	0.3090	0.0030	293.3530	0.0704	0.0647	Passenger Cars - Gasoline - model years 1985-present (highest)
MHD-DSL	0.2020	0.1714	1.3730	0.1440	7.4990	0.0140	1505.0000	0.0011	0.0017	Medium Heavy Duty Truck - Diesel - model years 1960-present (highest)
HHD-DSL	0.5520	0.4700	3.0240	0.6620	15.0200	0.0160	1670.6790	0.0051	0.0048	Heavy Duty Trucks - Diesel - all model years (highest)

Note:

PM$_{2.5}$ emission factors determined using guidance from SCAQMD
Final - Methodology to Calculate PM$_{2.5}$ 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

Title : Solar_1_2009MY_EF
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2009/07/07 17:16:26
Scen Year: 2009 -- Model year 2009 selected
Season : Annual
Area : Mojave Desert AQMD
****

Year: 2009 -- Model Years 2009 to 2009 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

District Average District Average Mojave Desert AQMD

Table 1: Running Exhaust Emissions (grams/mile; grams/idle-hour)

Pollutant Name: Reactive Org Gases Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.137	3.173	22.607	0	27.137	3.173	17.068	0	27.137	3.173	7.73	0	0	7.652	7.508	0	27.137	3.173	7.73	0	0	0	0	0	0	0	0	0	27.137	3.173	6.512	0	0	0	0	0	1.09	7.078	2.023
10	0	0.017	0	0.017	0	0.017	0	0.017	0	0.027	0	0.027	0	0.03	0	0.03	0	0.026	0.164	0.052	0	0.026	0.164	0.084	0	0.041	0.111	0.097	0	0.909	1.033	1.03	0	0.041	0.109	0.096	0	0.041	0.063	0.049	4.28	3.096	0	3.484	0	0.041	0.096	0.088	0	0.041	0.085	0.044	4.28	0.089	0.92	0.256
50	0	0.004	0	0.004	0	0.004	0	0.004	0	0.006	0	0.006	0	0.006	0	0.006	0	0.004	0.052	0.013	0	0.004	0.052	0.024	0	0.006	0.035	0.03	0	0.103	0.136	0.135	0	0.006	0.035	0.029	0	0.006	0.017	0.01	3.3	1.72	0	2.238	0	0.006	0.03	0.027	0	0.006	0.027	0.008	3.3	0.041	0.124	0.082

Pollutant Name: Carbon Monoxide Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155.23	26.3	130.861	0	155.23	26.3	101.057	0	155.23	26.3	50.82	0	0	41.429	40.652	0	155.23	26.3	50.819	0	0	0	0	0	0	0	0	0	155.23	26.3	44.264	0	0	0	0	0	6.238	39.45	11.407
10	0	0.497	0	0.497	0	0.497	0	0.497	0	0.742	0	0.742	0	0.933	0	0.933	0	0.32	1.138	0.474	0	0.32	1.138	0.664	0	0.497	1.68	1.455	0	47.62	2.235	3.086	0	0.496	1.66	1.439	0	0.531	2.506	1.262	31.844	12.142	0	18.605	0	0.487	1.454	1.32	0	0.48	1.292	0.541	31.844	0.984	2.132	1.43
50	0	0.262	0	0.262	0	0.262	0	0.262	0	0.391	0	0.391	0	0.492	0	0.492	0	0.089	0.299	0.129	0	0.089	0.299	0.177	0	0.138	0.442	0.384	0	13.24	0.858	1.091	0	0.138	0.437	0.38	0	0.148	0.535	0.291	42	8.189	0	19.279	0	0.135	0.382	0.348	0	0.134	0.34	0.149	42	0.515	0.797	0.916

Pollutant Name: Oxides of Nitrogen Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.79	75.051	15.637	0	1.79	75.051	32.572	0	1.79	75.051	61.118	0	0	123.519	121.203	0	1.79	75.051	61.119	0	0	0	0	0	0	0	0	0	0	1.79	75.051	64.843	0	0	0	0	0	0.072	117.204	18.49
10	0	0.039	0	0.039	0	0.039	0	0.039	0	0.062	0	0.062	0	0.065	0	0.065	0	0.075	3.569	0.735	0	0.075	3.569	1.543	0	0.117	4.248	3.463	0	2.561	11.965	11.789	0	0.117	4.245	3.46	0	0.148	0.906	0.428	1.162	1.222	0	1.202	0	0.116	4.209	3.639	0	0.117	4.181	0.421	1.162	0.081	10.946	1.799
50	0	0.024	0	0.024	0	0.024	0	0.024	0	0.038	0	0.038	0	0.04	0	0.04	0	0.104	2.876	0.628	0	0.104	2.876	1.269	0	0.162	3.423	2.803	0	3.549	4.722	4.7	0	0.162	3.42	2.801	0	0.205	0.642	0.367	1.614	1.064	0	1.244	0	0.16	3.392	2.941	0	0.162	3.369	0.402	1.614	0.065	4.521	0.779

Pollutant Name: Carbon Dioxide Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4776.9	4098	4648.583	0	4776.9	4098	4491.644	0	4776.9	4098	4227.112	0	0	6617.134	6493.061	0	4776.9	4098	4227.11	0	0	0	0	0	0	0	0	0	0	4776.9	4098	4192.593	0	0	0	0	0	191.961	6288.367	1148.935
10	0	712.801	0	712.801	0	899.79	0	899.79	0	899.79	0	899.79	0	1223.764	0	1223.764	0	1672.267	519	1454.292	0	1672.267	519	1187.695	0	1672.267	1505	1536.811	0	1672.267	3165.446	3137.449	0	1672.267	1505	1536.81	0	1672.267	2151.152	1849.526	199.079	233.302	0	222.077	0	1672.267	1505	1528.306	0	1672.267	1505	1659.767	199.079	865.521	2896.897	1179.218
50	0	289.176	0	289.176	0	365.035	0	365.035	0	365.035	0	365.035	0	496.468	0	496.468	0	464.953	519	475.168	0	464.953	519	487.662	0	464.953	1505	1307.206	0	464.953	1670.679	1648.071	0	464.953	1505	1307.208	0	464.953	2151.152	1089.098	99.654	181.779	0	154.842	0	464.953	1505	1360.087	0	464.953	1505	542.676	99.654	343.001	1590.651	537.096

Pollutant Name: Sulfur Dioxide Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.049	0.039	0.047	0	0.049	0.039	0.045	0	0.049	0.039	0.041	0	0	0.063	0.062	0	0.049	0.039	0.041	0	0	0	0	0	0	0	0	0	0	0.049	0.039	0.041	0	0	0	0	0	0.002	0.06	0.011
10	0	0.007	0	0.007	0	0.009	0	0.009	0	0.009	0	0.009	0	0.012	0	0.012	0	0.016	0.005	0.014	0	0.016	0.005	0.011	0	0.016	0.014	0.015	0	0.017	0.03	0.03	0	0.016	0.014	0.015	0	0.016	0.021	0.018	0.003	0.003	0	0.003	0	0.016	0.014	0.015	0	0.016	0.014	0.016	0.003	0.008	0.028	0.011
50	0	0.003	0	0.003	0	0.004	0	0.004	0	0.004	0	0.004	0	0.005	0	0.005	0	0.004	0.005	0.005	0	0.004	0.005	0.005	0	0.004	0.014	0.012	0	0.005	0.016	0.016	0	0.004	0.014	0.012	0	0.004	0.021	0.01	0.002	0.002	0	0.002	0	0.004	0.014	0.013	0	0.004	0.014	0.005	0.002	0.003	0.015	0.005

Pollutant Name: PM10 Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0	0.012	0.036	0.036	0	0.012	0.012	0.012	0	0.012	0.008	0.011	0.004	0.004	0	0.004	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0.004	0.008	0.033	0.012
50	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.008	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0	0.012	0.036	0.036	0	0.012	0.012	0.012	0	0.012	0.008	0.011	0.004	0.004	0	0.004	0	0.012	0.012	0.012	0	0.012	0.012	0.012	0.004	0.008	0.033	0.012

Pollutant Name: PM10 - Tire Wear Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Pollutant Name: PM10 - Break Wear Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0	0.028	0.028	0.028	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.006	0	0.006	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.012	0.026	0.015
50	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0	0.028	0.028	0.028	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.006	0	0.006	0	0.013	0.013	0.013	0	0.013	0.013	0.013	0.006	0.012	0.026	0.015

Pollutant Name: Gasoline - mi/gal Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	12.417	0	12.417	0	9.839	0	9.839	0	9.834	0	9.834	0	7.231	0	7.231	0	5.297	0	5.297	0	5.297	0	5.297	0	5.296	0	5.296	0	5.063	0	5.063	0	5.296	0	5.296	0	5.296	0	5.296	33.703	33.764	0	33.744	0	5.296	0	5.296	0	5.296	0	5.296	33.703	11.125	0	11.355
50	0	30.598	0	30.598	0	24.247	0	24.247	0	24.232	0	24.232	0	17.82	0	17.82	0	19.052	0	19.052	0	19.052	0	19.052	0	19.048	0	19.048	0	18.224	0	18.224	0	19.048	0	19.048	0	19.048	50.244	44.225	0	46.2	0	19.049	0	19.049	0	19.049	50.244	26.873	0	27.111

Pollutant Name: Diesel - mi/gal Temperature: 70F Relative Humidity: 20%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	OBUS	OBUS	OBUS	OBUS	UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.422	19.422	0	0	19.422	19.422	0	0	6.698	6.698	0	0	3.184	3.184	0	0	6.698	6.698	0	0	4.686	4.686	0	0	0	0	0	0	6.698	6.698	0	0	6.698	6.698	0	0	4.4	4.4
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.422	19.422	0	0	19.422	19.422	0	0	6.698	6.698	0	0	6.033	6.033	0	0	6.698	6.698	0	0	4.686	4.686	0	0	0	0	0	0	6.698	6.698	0	0	6.698	6.698	0	0	6.889	6.889

For on-site activity (mean vehicle speed = 10 mph, Temperature: 70F, Relative Humidity: 20%

	Emission Factors (g/mile)									Assumptions for CH_4 and N_2O from Reference sources TAB
	PM_{10}	$PM_{2.5}$	CO	ROG	NO_x	SO_x	CO_2	CH_4	N_2O	
LDT2-CAT	0.0410	0.0261	0.7420	0.0270	0.0620	0.0090	899.7900	0.1035	0.0813	Gasoline Light Truck - model years 1987-present (highest)

Note:

$PM_{2.5}$ emission factors determined using guidance from SCAQMD
Final - Methodology to Calculate $PM_{2.5}$ 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

CY	Season	AvgDays	Equipment	Fuel	MaxHP	Class	County	Air Basin	Air Dist.	Population	Activity (hr/day) total population	Consumptio	PM Exhaust (tons/day)	CO Exhaust (tons/day)	ROG Exhaust (tons/day)	NOX Exhaust (tons/day)	SO2 Exhaust (tons/day)	CO2 Exhaust (tons/day)	CH4 Exhaust (tons/day)	N2O Exhaust (tons/day)	PM Exhaust/Activity (tons/hr)	CO Exhaust/Activity (tons/hr)	ROG Exhaust/Activity (tons/hr)	NOX Exhaust/Activity (tons/hr)	SO2 Exhaust/Activity (tons/hr)	CO2 Exhaust/Activity (tons/hr)	CH4 Exhaust/Activity (tons/hr)	N2O Exhaust/Activity (tons/hr)
2010	Annual	Mon-Sun	Asphalt Pavers	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.12E-01	7.65E-01	1.78E+00	1.07E-06	1.87E-03	7.26E-05	1.11E-04	1.70E-07	1.40E-02	4.20E-06	4.63E-06	1.40E-06	2.44E-03	9.49E-05	1.45E-04	2.22E-07	1.82E-02	5.48E-06	6.05E-06
2010	Annual	Mon-Sun	Asphalt Pavers	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.91E-01	4.20E-01	1.65E+00	1.12E-06	8.38E-04	5.07E-05	1.62E-04	1.40E-07	1.44E-02	2.93E-06	4.13E-06	2.66E-06	1.99E-03	1.21E-04	3.85E-04	3.32E-07	3.44E-02	6.97E-06	9.82E-06
2010	Annual	Mon-Sun	Rollers	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.01E-01	8.54E-01	2.23E+00	1.30E-06	2.69E-03	1.06E-04	1.38E-04	2.06E-07	1.69E-02	6.12E-06	5.53E-06	1.52E-06	3.15E-03	1.24E-04	1.62E-04	2.41E-07	1.98E-02	7.17E-06	6.47E-06
2010	Annual	Mon-Sun	Rollers	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.43E-01	1.61E+00	7.42E+00	4.94E-06	4.35E-03	2.70E-04	7.19E-04	6.16E-07	6.37E-02	1.56E-05	1.72E-05	3.08E-06	2.71E-03	1.68E-04	4.48E-04	3.84E-07	3.97E-02	9.69E-06	1.07E-05
2010	Annual	Mon-Sun	Paving Equipment	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.95E+00	9.34E-01	2.13E+00	1.35E-06	1.76E-03	5.93E-05	1.08E-04	2.14E-07	1.76E-02	3.43E-06	4.84E-06	1.44E-06	1.89E-03	6.35E-05	1.15E-04	2.29E-07	1.88E-02	3.67E-06	5.18E-06
2010	Annual	Mon-Sun	Paving Equipment	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.01E-01	2.41E-01	8.88E-01	6.20E-07	3.20E-04	1.74E-05	6.70E-05	7.73E-08	8.00E-03	1.01E-06	1.88E-06	2.58E-06	1.33E-03	7.24E-05	2.78E-04	3.21E-07	3.32E-02	4.19E-06	7.81E-06
2010	Annual	Mon-Sun	Trenchers	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.56E+00	5.03E+00	1.10E+01	6.59E-06	1.17E-02	4.52E-04	6.76E-04	1.05E-06	8.60E-02	2.61E-05	2.93E-05	1.31E-06	2.32E-03	8.98E-05	1.34E-04	2.08E-07	1.71E-02	5.19E-06	5.82E-06
2010	Annual	Mon-Sun	Trenchers	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.51E+00	1.67E+00	7.11E+00	4.81E-06	3.62E-03	2.20E-04	6.84E-04	6.00E-07	6.21E-02	1.27E-05	1.70E-05	2.88E-06	2.17E-03	1.32E-04	4.10E-04	3.59E-07	3.72E-02	7.60E-06	1.02E-05
2010	Annual	Mon-Sun	Bore/Drill Rigs	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.21E-01	6.47E-02	1.73E-01	1.08E-07	1.48E-04	5.50E-06	1.05E-05	1.72E-08	1.41E-03	3.18E-07	4.11E-07	1.67E-06	2.28E-03	8.50E-05	1.62E-04	2.65E-07	2.18E-02	4.91E-06	6.35E-06
2010	Annual	Mon-Sun	Bore/Drill Rigs	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.01E+00	2.97E-01	1.98E+00	1.37E-06	7.95E-04	4.60E-05	1.88E-04	1.70E-07	1.76E-02	2.66E-06	3.79E-06	4.60E-06	2.68E-03	1.55E-04	6.33E-04	5.73E-07	5.94E-02	8.94E-06	1.27E-05
2010	Annual	Mon-Sun	Bore/Drill Rigs	G4	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.51E-01	7.36E-02	6.64E-01	4.84E-07	1.87E-04	9.15E-06	7.34E-05	6.04E-08	6.08E-03	5.29E-07	1.19E-06	6.58E-06	2.54E-03	1.24E-04	9.98E-04	8.21E-07	8.26E-02	7.19E-06	1.62E-05
2010	Annual	Mon-Sun	Concrete/Industrial Saws	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.22E-01	1.38E+00	3.80E+00	2.48E-06	2.62E-03	3.91E-05	5.85E-05	3.94E-07	3.24E-02	2.25E-06	4.55E-06	1.81E-06	1.91E-03	2.84E-05	4.25E-05	2.87E-07	2.36E-02	1.64E-06	3.31E-06
2010	Annual	Mon-Sun	Concrete/Industrial Saws	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.71E-01	7.88E-01	3.71E+00	2.68E-06	7.14E-04	1.61E-05	3.74E-05	3.35E-07	3.46E-02	9.26E-07	2.76E-06	3.40E-06	9.06E-04	2.04E-05	4.75E-05	4.25E-07	4.40E-02	1.17E-06	3.50E-06
2010	Annual	Mon-Sun	Cranes	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.51E-01	2.85E-01	5.49E-01	3.28E-07	5.88E-04	2.28E-05	3.38E-05	5.21E-08	4.28E-03	1.31E-06	1.55E-06	1.15E-06	2.06E-03	7.98E-05	1.18E-04	1.83E-07	1.50E-02	4.61E-06	5.44E-06
2010	Annual	Mon-Sun	Cranes	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.01E-01	5.71E-01	1.94E+00	1.31E-06	9.99E-04	6.06E-05	1.87E-04	1.64E-07	1.69E-02	3.50E-06	5.16E-06	2.30E-06	1.75E-03	1.06E-04	3.28E-04	2.87E-07	2.97E-02	6.14E-06	9.04E-06
2010	Annual	Mon-Sun	Cranes	G4	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.01E-02	2.28E-02	1.22E-01	8.87E-08	3.79E-05	1.92E-06	1.42E-05	1.11E-08	1.11E-03	1.11E-07	2.90E-07	3.89E-06	1.66E-03	8.40E-05	6.20E-04	4.85E-07	4.88E-02	4.85E-06	1.27E-05
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.91E-01	1.92E-01	1.51E+00	1.04E-06	6.84E-04	4.05E-05	1.45E-04	1.29E-07	1.34E-02	2.34E-06	2.70E-06	5.40E-06	3.56E-03	2.11E-04	7.54E-04	6.73E-07	6.97E-02	1.22E-05	1.40E-05
2010	Annual	Mon-Sun	Rough Terrain Forklifts	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.00E-01	1.14E-01	3.72E-01	2.22E-07	3.98E-04	1.54E-05	2.29E-05	3.53E-08	2.90E-03	8.90E-07	8.20E-07	1.96E-06	3.50E-03	1.36E-04	2.02E-04	3.11E-07	2.56E-02	7.83E-06	7.22E-06
2010	Annual	Mon-Sun	Rough Terrain Forklifts	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.42E+00	1.61E+00	8.45E+00	5.71E-06	4.34E-03	2.63E-04	8.14E-04	7.12E-07	7.37E-02	1.52E-05	1.83E-05	3.54E-06	2.69E-03	1.63E-04	5.04E-04	4.42E-07	4.57E-02	9.43E-06	1.14E-05
2010	Annual	Mon-Sun	Rough Terrain Forklifts	G4	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.01E-02	5.68E-02	4.63E-01	3.36E-07	1.43E-04	7.26E-06	5.36E-05	4.19E-08	4.22E-03	4.19E-07	9.02E-07	5.92E-06	2.53E-03	1.28E-04	9.44E-04	7.38E-07	7.43E-02	7.38E-06	1.59E-05
2010	Annual	Mon-Sun	Rubber Tired Loaders	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.51E-01	3.52E-01	8.53E-01	5.03E-07	9.66E-04	3.80E-05	5.34E-05	7.98E-08	6.56E-03	2.19E-06	2.19E-06	1.43E-06	2.74E-03	1.08E-04	1.52E-04	2.27E-07	1.87E-02	6.23E-06	6.23E-06
2010	Annual	Mon-Sun	Rubber Tired Loaders	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.66E+00	2.34E+00	8.96E+00	6.01E-06	4.93E-03	3.03E-04	8.79E-04	7.49E-07	7.76E-02	1.75E-05	2.28E-05	2.57E-06	2.11E-03	1.30E-04	3.76E-04	3.21E-07	3.32E-02	7.49E-06	9.76E-06
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.82E-01	2.11E+00	6.22E+00	4.21E-06	3.24E-03	1.65E-04	4.19E-04	5.25E-07	5.44E-02	9.49E-06	1.39E-05	2.00E-06	1.54E-03	7.84E-05	1.99E-04	2.49E-07	2.58E-02	4.51E-06	6.58E-06
2010	Annual	Mon-Sun	Skid Steer Loaders	G4	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	6.84E+00	5.81E+00	1.11E+01	7.14E-06	8.66E-03	1.82E-04	3.19E-04	1.13E-06	9.32E-02	1.05E-05	2.06E-05	1.23E-06	1.49E-03	3.13E-05	5.49E-05	1.95E-07	1.60E-02	1.81E-06	3.55E-06
2010	Annual	Mon-Sun	Skid Steer Loaders	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.09E+00	3.48E+00	1.50E+01	1.07E-05	3.91E-03	1.43E-04	5.14E-04	1.33E-06	1.38E-01	8.26E-06	1.92E-05	3.07E-06	1.13E-03	4.11E-05	1.48E-04	3.83E-07	3.96E-02	2.38E-06	5.51E-06
2010	Annual	Mon-Sun	Dumpers/Tenders	G4	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.81E-01	6.29E-02	1.63E-01	1.13E-07	6.68E-05	3.88E-06	1.55E-05	1.40E-08	1.45E-03	2.24E-07	4.85E-07	1.79E-06	1.06E-03	6.17E-05	2.47E-04	2.23E-07	2.31E-02	3.57E-06	7.72E-06
2010	Annual	Mon-Sun	Other Construction Equipment	G4	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.02E-01	7.14E-01	3.91E+00	2.86E-06	1.15E-03	2.05E-05	1.20E-04	3.56E-07	3.59E-02	1.19E-06	4.28E-06	4.00E-06	1.61E-03	2.87E-05	1.68E-04	4.99E-07	5.02E-02	1.66E-06	5.99E-06
2010	Annual	Mon-Sun	Aerial Lifts	G4	50	Industrial Equipment	San Bernardino	MD	MOJ	1.40E+00	1.38E+00	2.20E+00	1.39E-06	1.88E-03	4.62E-05	7.87E-05	2.20E-07	1.81E-02	2.67E-06	4.95E-06	1.00E-06	1.36E-03	3.35E-05	5.69E-05	1.59E-07	1.31E-02	1.93E-06	3.58E-06
2010	Annual	Mon-Sun	Aerial Lifts	G4	120	Industrial Equipment	San Bernardino	MD	MOJ	1.40E+00	1.38E+00	3.99E+00	2.82E-06	1.27E-03	5.39E-05	1.88E-04	3.51E-07	3.63E-02	3.12E-06	7.24E-06	2.04E-06	9.17E-04	3.91E-05	1.36E-04	2.54E-07	2.63E-02	2.26E-06	5.24E-06
2010	Annual	Mon-Sun	Forklifts	G4	50	Industrial Equipment	San Bernardino	MD	MOJ	4.65E+00	2.30E+01	3.65E+01	1.87E-05	6.66E-02	9.15E-04	1.69E-03	2.97E-06	2.44E-01	5.18E-05	9.77E-05	8.14E-07	2.90E-03	3.98E-05	7.38E-05	1.29E-07	1.06E-02	2.25E-06	4.26E-06
2010	Annual	Mon-Sun	Forklifts	G4	120	Industrial Equipment	San Bernardino	MD	MOJ	1.63E+01	8.06E+01	1.70E+02	1.12E-04	1.16E-01	2.81E-03	8.58E-03	1.40E-05	1.45E+00	1.59E-04	4.13E-04	1.39E-06	1.44E-03	3.48E-05	1.06E-04	1.73E-07	1.79E-02	1.97E-06	5.12E-06
2010	Annual	Mon-Sun	Forklifts	G4	175	Industrial Equipment	San Bernardino	MD	MOJ	5.97E-01	2.95E+00	1.19E+01	8.53E-06	4.40E-03	1.29E-04	6.54E-04	1.06E-06	1.07E-01	7.29E-06	2.23E-05	2.90E-06	1.49E-03	4.37E-05	2.22E-04	3.61E-07	3.64E-02	2.48E-06	7.58E-06
2010	Annual	Mon-Sun	Sweepers/Scrubbers	G4	50	Industrial Equipment	San Bernardino	MD	MOJ	1.30E+00	1.84E+00	4.82E+00	3.02E-06	4.40E-03	6.71E-05	1.36E-04	4.79E-07	3.94E-02	3.87E-06	7.94E-06	1.64E-06	2.39E-03	3.65E-05	7.40E-05	2.61E-07	2.15E-02	2.11E-06	4.32E-06
2010	Annual	Mon-Sun	Sweepers/Scrubbers	G4	120	Industrial Equipment	San Bernardino	MD	MOJ	1.08E+00	1.53E+00	6.89E+00	4.90E-06	2.00E-03	4.92E-05	2.36E-04	6.11E-07	6.32E-02	2.84E-06	9.74E-06	3.19E-06	1.30E-03	3.21E-05	1.54E-04	3.98E-07	4.12E-02	1.85E-06	6.35E-06
2010	Annual	Mon-Sun	Sweepers/Scrubbers	G4	175	Industrial Equipment	San Bernardino	MD	MOJ	6.30E-03	8.91E-03	8.03E-02	5.86E-08	2.42E-05	3.85E-07	2.94E-06	7.31E-09	7.36E-04	2.22E-08	8.53E-08	6.57E-06	2.71E-03	4.32E-05	3.30E-04	8.20E-07	8.25E-02	2.50E-06	9.57E-06
2010	Annual	Mon-Sun	Other General Industrial Equipmen	G4	50	Industrial Equipment	San Bernardino	MD	MOJ	4.46E-01	8.71E-01	1.56E+00	9.34E-07	1.74E-03	2.74E-05	5.31E-05	1.48E-07	1.22E-02	1.58E-06	3.37E-06	1.07E-06	1.99E-03	3.14E-05	6.09E-05	1.70E-07	1.40E-02	1.81E-06	3.87E-06
2010	Annual	Mon-Sun	Other General Industrial Equipmen	G4	120	Industrial Equipment	San Bernardino	MD	MOJ	1.46E-01	2.86E-01	1.16E+00	8.08E-07	4.39E-04	1.18E-05	4.73E-05	1.01E-07	1.04E-02	6.78E-07	1.86E-06	2.82E-06	1.53E-03	4.11E-05	1.65E-04	3.52E-07	3.64E-02	2.37E-06	6.50E-06
2010	Annual	Mon-Sun	Other General Industrial Equipmen	G4	175	Industrial Equipment	San Bernardino	MD	MOJ	1.42E-02	2.77E-02	2.37E-01	1.72E-07	7.42E-05	1.54E-06	1.05E-05	2.15E-08	2.16E-03	8.90E-08	2.81E-07	6.21E-06	2.68E-03	5.57E-05	3.77E-04	7.75E-07	7.80E-02	3.21E-06	1.01E-05
2010	Annual	Mon-Sun	Other Material Handling Equipment	G4	50	Industrial Equipment	San Bernardino	MD	MOJ	6.30E-03	6.67E-03	1.60E-02	9.58E-09	1.75E-05	6.00E-07	9.44E-07	1.52E-09	1.25E-04	3.47E-08	4.02E-08	1.44E-06	2.62E-03	9.00E-05	1.42E-04	2.28E-07	1.88E-02	5.20E-06	6.03E-06
2010	Annual	Mon-Sun	Other Material Handling Equipment	G4	120	Industrial Equipment	San Bernardino	MD	MOJ	2.79E-01	2.95E-01	8.23E-01	5.59E-07	4.11E-04	2.30E-05	7.49E-05	6.97E-08	7.21E-03	1.33E-06	2.39E-06	1.89E-06	1.39E-03	7.80E-05	2.54E-04	2.36E-07	2.44E-02	4.51E-06	8.10E-06
2010	Annual	Mon-Sun	Generator Sets	G4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	9.94E+01	3.13E+01	7.16E+01	4.50E-05	6.09E-02	2.09E-03	4.12E-03	7.15E-06	5.88E-01	1.21E-04	1.79E-04	1.44E-06	1.95E-03	6.68E-05	1.32E-04	2.28E-07	1.88E-02	3.87E-06	5.74E-06
2010	Annual	Mon-Sun	Generator Sets	G4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	1.92E+01	6.04E+00	3.25E+01	2.26E-05	1.29E-02	6.85E-04	2.90E-03	2.81E-06	2.91E-01	3.96E-05	6.83E-05	3.73E-06	2.13E-03	1.13E-04	4.79E-04	4.66E-07	4.82E-02	6.56E-06	1.13E-05
2010	Annual	Mon-Sun	Generator Sets	G4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	1.81E+00	5.71E-01	5.13E+00	3.75E-06	1.41E-03	6.41E-05	5.22E-04	4.67E-07	4.71E-02	3.71E-06	9.10E-06	6.57E-06	2.47E-03	1.12E-04	9.14E-04	8.19E-07	8.24E-02	6.49E-06	1.59E-05
2010	Annual	Mon-Sun	Pumps	G4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	7.94E+00	4.80E+00	1.09E+01	6.80E-06	9.64E-03	3.47E-04	6.03E-04	1.08E-06	8.87E-02	2.00E-05	2.64E-05	1.41E-06	2.01E-03	7.21E-05	1.25E-04	2.25E-07	1.85E-02	4.17E-06	5.49E-06
2010	Annual	Mon-Sun	Pumps	G4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	1.01E+01	6.09E+00	3.74E+01	2.58E-05	1.50E-02	8.60E-04	3.15E-03	3.22E-06	3.34E-01	4.97E-05	6.77E-05	4.24E-06	2.47E-03	1.41E-04	5.17E-04	5.29E-07	5.48E-02	8.16E-06	1.11E-05
2010	Annual	Mon-Sun	Pumps	G4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	3.04E-01	1.84E-01	1.66E+00	1.21E-06	4.79E-04	2.12E-05	1.63E-04	1.50E-07	1.51E-02	1.23E-06	2.72E-06	6.57E-06	2.61E-03	1.16E-04	8.87E-04	8.20E-07	8.25E-02	6.69E-06	1.48E-05
2010	Annual	Mon-Sun	Air Compressors	G4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	3.02E+00	4.00E+00	8.71E+00	5.19E-06	9.49E-03	3.85E-04	5.38E-04	8.23E-07	6.77E-02	2.22E-05	2.33E-05	1.30E-06	2.37E-03	9.61E-05	1.34E-04	2.06E-07	1.69E-02	5.55E-06	5.83E-06
2010	Annual	Mon-Sun	Air Compressors	G4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	9.80E+00	1.30E+01	5.00E+01	3.36E-05	2.65E-02	1.67E-03	4.83E-03	4.19E-06	4.34E-01	9.64E-05	1.26E-04	2.59E-06	2.04E-03	1.29E-04	3.73E-04	3.23E-07	3.35E-02	7.43E-06	9.69E-06
2010	Annual	Mon-Sun	Air Compressors	G4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	6.59E-01	8.73E-01	5.97E+00	4.33E-06	1.85E-03	9.60E-05	7.00E-04	5.40E-07	5.44E-02	5.54E-06	1.27E-05	4.96E-06	2.12E-03	1.10E-04	8.03E-04	6.19E-07	6.23E-02	6.35E-06	1.46E-05
2010	Annual	Mon-Sun	Welders	G4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	1.58E+01	8.98E+00	2.20E+01	1.36E-05	2.00E-02	7.79E-04	1.35E-03	2.16E-06	1.78E-01	4.51E-05	5.52E-05	1.52E-06	2.23E-03	8.67E-05	1.51E-04	2.41E-07	1.98E-02	5.01E-06	6.14E-06
2010	Annual	Mon-Sun	Welders	G4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	1.61E+01	9.17E+00	3.15E+01	2.17E-05	1.37E-02	8.24E-04	3.02E-03	2.70E-06	2.79E-01	4.76E-05	8.27E-05	2.36E-06	1.49E-03	8.99E-05	3.30E-04	2.94E-07	3.05E-02	5.20E-06	9.02E-06
2010	Annual	Mon-Sun	Welders	G4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	1.11E+00	6.32E-01	3.80E+00	2.77E-06	1.08E-03	5.48E-05	4.29E-04	3.46E-07	3.48E-02	3.17E-06	8.37E-06	4.38E-06	1.71E-03	8.67E-05	6.78E-04	5.47E-07	5.50E-02	5.01E-06	1.32E-05
2010	Annual	Mon-Sun	Pressure Washers	G4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	8.89E-01	2.80E-01	7.20E-01	4.56E-07	5.87E-04	2.09E-05	3.97E-05	7.24E-08	5.95E-03	1.21E-06	1.63E-06	1.63E-06	2.10E-03	7.47E-05	1.42E-04	2.59E-07	2.13E-02	4.32E-06	5.83E-06
2010	Annual	Mon-Sun	Forklifts	C4	50	Industrial Equipment	San Bernardino	MD	MOJ	8.53E+00	4.21E+01	5.64E+01	3.43E-05	6.21E-03	5.93E-05	2.55E-03	0.00E+00	3.85E-01	4.97E-04	0.00E+00	8.14E-07	1.48E-04	1.41E-06	6.05E-05	0.00E+00	9.15E-03	1.18E-05	0.00E+00
2010	Annual	Mon-Sun	Forklifts	C4	120	Industrial Equipment	San Bernardino	MD	MOJ	3.00E+01	1.48E+02	3.53E+02	2.05E-04	1.05E-01	3.66E-04	1.50E-02	0.00E+00	2.31E+00	3.07E-03	0.00E+00	1.39E-06	7.09E-04	2.48E-06	1.02E-04	0.00E+00	1.56E-02	2.08E-05	0.00E+00
2010	Annual	Mon-Sun	Forklifts	C4	175	Industrial Equipment	San Bernardino	MD	MOJ	1.10E+00	5.41E+00	2.65E+01	1.57E-05	6.13E-03	1.88E-05	9.25E-04	0.00E+00	1.76E-01	1.57E-04	0.00E+00	2.90E-06	1.13E-03	3.47E-06	1.71E-04	0.00E+00	3.26E-02	2.91E-05	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	C4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	1.43E+00	4.50E-01	2.82E+00	1.68E-06	5.94E-04	2.78E-06	1.82E-04	0.00E+00	1.89E-02	2.33E-05	0.00E+00	3.73E-06	1.32E-03	6.18E-06	4.06E-04	0.00E+00	4.20E-02	5.18E-05	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	C4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	1.18E+00	3.73E-01	4.08E+00	2.45E-06	7.12E-04	3.22E-06	2.65E-04	0.00E+00	2.75E-02	2.70E-05	0.00E+00	6.57E-06	1.91E-03	8.65E-06	7.11E-04	0.00E+00	7.38E-02	7.25E-05	0.00E+00
2010	Annual	Mon-Sun	Gas Compressors	C4	50	Light Commercial Equipment	San Bernardino	MD	MOJ	2.22E-01	5.17E+00	1.77E+01	9.30E-06	1.78E-03	1.01E-05	3.66E-04	0.00E+00	1.21E-01	8.44E-05	0.00E+00	1.80E-06	3.45E-04	1.95E-06	7.07E-05	0.00E+00	2.35E-02	1.63E-05	0.00E+00
2010	Annual	Mon-Sun	Gas Compressors	C4	120	Light Commercial Equipment	San Bernardino	MD	MOJ	4.59E-01	1.07E+01	1.03E+02	5.29E-05	2.85E-02	5.49E-05	2.16E-03	0.00E+00	6.83E-01	4.60E-04	0.00E+00	4.95E-06	2.67E-03	5.14E-06	2.02E-04	0.00E+00	6.39E-02	4.31E-05	0.00E+00
2010	Annual	Mon-Sun	Gas Compressors	C4	175	Light Commercial Equipment	San Bernardino	MD	MOJ	7.40E-02	1.72E+00	2.66E+01	1.41E-05	5.80E-03	1.53E-05	5.79E-04	0.00E+00	1.78E-01	1.28E-04	0.00E+00	8.21E-06	3.37E-03	8.88E-06	3.36E-04	0.00E+00	1.03E-01	7.44E-05	0.00E+00
2010	Annual	Mon-Sun	Gas Compressors	C4	250	Light Commercial Equipment	San Bernardino	MD	MOJ	5.92E-02	1.38E+00	2.75E+01	1.63E-05	6.68E-03	1.18E-05	5.60E-04	0.00E+00	1.83E-01	9.87E-05	0.00E+00	1.18E-05	4.84E-03	8.54E-06	4.06E-04	0.00E+00	1.33E-01	7.16E-05	0.00E+00
2010	Annual	Mon-Sun	Gas Compressors	C4	500	Light Commercial Equipment	San Bernardino	MD	MOJ	5.18E-02	1.21E+00	3.88E+01	2.29E-05	9.40E-03	1.66E-05	7.89E-04	0.00E+00	2.58E-01	1.39E-04	0.00E+00	1.90E-05	7.79E-03	1.37E-05	6.54E-04	0.00E+00	2.14E-01	1.15E-04	0.00E+00
2010	Annual	Mon-Sun	Pavers	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.04E+01	2.39E+01	3.15E+01	4.26E-04	4.62E-03	1.94E-03	3.72E-03	4.33E-06	3.35E-01	1.75E-04	0.00E+00	1.78E-05	1.93E-04	8.11E-05	1.55E-04	1.81E-07	1.40E-02	7.32E-06	0.00E+00
2010	Annual	Mon-Sun	Pavers	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.23E+01	2.82E+01	8.97E+01	1.20E-03	7.36E-03	2.31E-03	1.37E-02	1.14E-05	9.75E-01	2.08E-04	0.00E+00	4.26E-05	2.61E-04	8.18E-05	4.84E-04	4.05E-07	3.46E-02	7.38E-06	0.00E+00
2010	Annual	Mon-Sun	Pavers	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.65E+00	1.75E+01	1.03E+02	7.91E-04	6.97E-03	1.79E-03	1.40E-02	1.26E-05	1.12E+00	1.62E-04	0.00E+00	4.51E-05	3.98E-04	1.02E-04	8.01E-04	7.21E-07	6.41E-02	9.23E-06	0.00E+00
2010	Annual	Mon-Sun	Pavers	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.22E-01	2.11E+00	1.87E+01	1.01E-04	7.41E-04	2.56E-04	2.46E-03	2.31E-06	2.05E-01	2.31E-05	0.00E+00	4.76E-05	3.50E-04	1.21E-04	1.17E-03	1.09E-06	9.71E-02	1.09E-05	0.00E+00
2010	Annual	Mon-Sun	Pavers	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.46E-01	2.17E+00	2.30E+01	1.11E-04	1.26E-03	2.84E-04	2.74E-03	2.48E-06	2.53E-01	2.56E-05	0.00E+00	5.11E-05	5.83E-04	1.31E-04	1.26E-03	1.14E-06	1.17E-01	1.18E-05	0.00E+00
2010	Annual	Mon-Sun	Rollers	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.43E+00	1.81E+01	2.20E+01	2.65E-04	2.87E-03	1.15E-03	2.49E-03	3.04E-06	2.35E-01	1.04E-04	0.00E+00	1.46E-05	1.58E-04	6.34E-05	1.38E-04	1.68E-07	1.30E-02	5.72E-06	0.00E+00
2010	Annual	Mon-Sun	Rollers	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.06E+01	9.74E+01	2.63E+02	3.12E-03	2.03E-02	5.84E-03	3.59E-02	3.37E-05	2.87E+00	5.27E-04	0.00E+00	3.20E-05	2.09E-04	6.00E-05	3.69E-04	3.46E-07	2.95E-02	5.41E-06	0.00E+00
2010	Annual	Mon-Sun	Rollers	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.03E+01	3.91E+01	1.93E+02	1.29E-03	1.23E-02	2.89E-03	2.35E-02	2.38E-05	2.12E+00	2.61E-04	0.00E+00	3.29E-05	3.13E-04	7.38E-05	6.00E-04	6.08E-07	5.40E-02	6.66E-06	0.00E+00
2010	Annual	Mon-Sun	Rollers	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.89E+00	5.55E+00	3.86E+01	1.67E-04	1.26E-03	4.28E-04	4.50E-03	4.78E-06	4.25E-01	3.86E-05	0.00E+00	3.01E-05	2.27E-04	7.70E-05	8.11E-04	8.60E-07	7.65E-02	6.95E-06	0.00E+00
2010	Annual	Mon-Sun	Rollers	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.02E+00	3.89E+00	3.87E+01	1.52E-04	1.52E-03	3.87E-04	4.06E-03	4.18E-06	4.26E-01	3.49E-05	0.00E+00	3.91E-05	3.89E-04	9.93E-05	1.04E-03	1.07E-06	1.09E-01	8.96E-06	0.00E+00
2010	Annual	Mon-Sun	Scrapers	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.67E-01	1.43E+00	6.17E+00	8.40E-05	5.12E-04	1.60E-04	9.31E-04	7.87E-07	6.70E-02	1.44E-05	0.00E+00	5.88E-05	3.58E-04	1.12E-04	6.51E-04	5.50E-07	4.69E-02	1.01E-05	0.00E+00
2010	Annual	Mon-Sun	Scrapers	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.28E+00	1.31E+01	8.86E+01	6.88E-04	6.07E-03	1.56E-03	1.19E-02	1.09E-05	9.68E-01	1.41E-04	0.00E+00	5.26E-05	4.64E-04	1.19E-04	9.13E-04	8.32E-07	7.40E-02	1.08E-05	0.00E+00
2010	Annual	Mon-Sun	Scrapers	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.17E+00	1.28E+01	1.21E+02	6.41E-04	4.70E-03	1.67E-03	1.58E-02	1.50E-05	1.33E+00	1.51E-04	0.00E+00	5.03E-05	3.68E-04	1.31E-04	1.24E-03	1.18E-06	1.05E-01	1.18E-05	0.00E+00
2010	Annual	Mon-Sun	Scrapers	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.15E+01	3.51E+01	5.14E+02	2.43E-03	2.66E-02	6.40E-03	6.01E-02	5.53E-05	5.64E+00	5.78E-04	0.00E+00	6.93E-05	7.59E-04	1.82E-04	1.71E-03	1.58E-06	1.61E-01	1.65E-05	0.00E+00
2010	Annual	Mon-Sun	Scrapers	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.73E+00	1.75E+01	4.43E+02	2.12E-03	2.30E-02	5.55E-03	5.28E-02	4.89E-05	4.86E+00	5.01E-04	0.00E+00	1.21E-04	1.31E-03	3.17E-04	3.01E-03	2.79E-06	2.77E-01	2.86E-05	0.00E+00
2010	Annual	Mon-Sun	Paving Equipment	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.64E-01	6.05E-01	6.81E-01	9.17E-06	9.90E-05	4.18E-05	8.02E-05	9.35E-08	7.23E-03	3.77E-06	0.00E+00	1.52E-05	1.64E-04	6.91E-05	1.33E-04	1.55E-07	1.20E-02	6.24E-06	0.00E+00
2010	Annual	Mon-Sun	Paving Equipment	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.80E+00	8.72E+00	2.18E+01	2.91E-04	1.78E-03	5.58E-04	3.31E-03	2.78E-06	2.37E-01	5.03E-05	0.00E+00	3.34E-05	2.04E-04	6.40E-05	3.80E-04	3.19E-07	2.72E-02	5.78E-06	0.00E+00
2010	Annual	Mon-Sun	Paving Equipment	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.78E+00	4.10E+00	1.89E+01	1.44E-04	1.27E-03	3.27E-04	2.57E-03	2.33E-06	2.07E-01	2.95E-05	0.00E+00	3.52E-05	3.10E-04	7.99E-05	6.28E-04	5.68E-07	5.05E-02	7.20E-06	0.00E+00
2010	Annual	Mon-Sun	Paving Equipment	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.03E-01	1.15E+00	6.42E+00	3.42E-05	2.52E-04	8.69E-05	8.43E-04	7.94E-07	7.06E-02	7.84E-06	0.00E+00	2.96E-05	2.18E-04	7.53E-05	7.30E-04	6.87E-07	6.11E-02	6.79E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.40E-01	2.98E-01	1.95E-01	2.11E-06	2.26E-05	8.76E-06	2.16E-05	2.71E-08	2.10E-03	7.91E-07	0.00E+00	7.09E-06	7.59E-05	2.94E-05	7.25E-05	9.11E-08	7.05E-03	2.66E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.79E-02	5.95E-02	1.74E-01	1.85E-06	1.29E-05	3.54E-06	2.28E-05	2.22E-08	1.90E-03	3.20E-07	0.00E+00	3.12E-05	2.17E-04	5.95E-05	3.84E-04	3.74E-07	3.19E-02	5.37E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.59E-02	4.46E-02	1.75E-01	1.05E-06	1.07E-05	2.39E-06	2.04E-05	2.15E-08	1.91E-03	2.15E-07	0.00E+00	2.36E-05	2.39E-04	5.35E-05	4.58E-04	4.82E-07	4.28E-02	4.82E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.19E-02	8.93E-02	5.46E-01	2.21E-06	1.73E-05	5.59E-06	6.15E-05	6.77E-08	6.01E-03	5.05E-07	0.00E+00	2.47E-05	1.94E-04	6.27E-05	6.88E-04	7.58E-07	6.74E-02	5.65E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.99E-01	7.44E-01	7.47E+00	2.76E-05	2.89E-04	6.89E-05	7.63E-04	8.07E-07	8.22E-02	6.22E-06	0.00E+00	3.70E-05	3.89E-04	9.27E-05	1.03E-03	1.08E-06	1.11E-01	8.36E-06	0.00E+00
2010	Annual	Mon-Sun	Surfacing Equipment	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.09E+00	1.36E+00	2.14E+01	7.98E-05	8.30E-04	2.01E-04	2.23E-03	2.37E-06	2.36E-01	1.82E-05	0.00E+00	5.87E-05	6.10E-04	1.48E-04	1.64E-03	1.74E-06	1.73E-01	1.34E-05	0.00E+00
2010	Annual	Mon-Sun	Signal Boards	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.68E-01	2.46E-01	4.14E-01	4.47E-06	4.70E-05	1.83E-05	4.53E-05	5.75E-08	4.45E-03	1.65E-06	0.00E+00	1.82E-05	1.91E-04	7.45E-05	1.84E-04	2.34E-07	1.81E-02	6.73E-06	0.00E+00
2010	Annual	Mon-Sun	Signal Boards	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.74E+00	4.02E+00	1.48E+01	1.59E-04	1.08E-03	3.00E-04	1.90E-03	1.89E-06	1.61E-01	2.71E-05	0.00E+00	3.95E-05	2.69E-04	7.47E-05	4.72E-04	4.70E-07	4.01E-02	6.74E-06	0.00E+00
2010	Annual	Mon-Sun	Signal Boards	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.70E+00	2.50E+00	1.76E+01	1.05E-04	1.05E-03	2.38E-04	2.02E-03	2.17E-06	1.93E-01	2.14E-05	0.00E+00	4.23E-05	4.21E-04	9.52E-05	8.09E-04	8.69E-07	7.72E-02	8.59E-06	0.00E+00
2010	Annual	Mon-Sun	Signal Boards	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.59E-01	5.27E-01	6.10E+00	2.08E-05	1.62E-04	5.40E-05	6.61E-04	7.56E-07	6.72E-02	4.87E-06	0.00E+00	3.94E-05	3.07E-04	1.02E-04	1.25E-03	1.43E-06	1.28E-01	9.24E-06	0.00E+00
2010	Annual	Mon-Sun	Trenchers	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.60E+01	6.25E+01	9.67E+01	1.27E-03	1.36E-02	5.74E-03	1.13E-02	1.33E-05	1.03E+00	5.18E-04	0.00E+00	2.02E-05	2.18E-04	9.18E-05	1.81E-04	2.13E-07	1.64E-02	8.28E-06	0.00E+00
2010	Annual	Mon-Sun	Trenchers	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.88E+01	8.47E+01	2.53E+02	3.28E-03	2.05E-02	6.38E-03	3.84E-02	3.22E-05	2.75E+00	5.76E-04	0.00E+00	3.87E-05	2.42E-04	7.54E-05	4.54E-04	3.80E-07	3.24E-02	6.80E-06	0.00E+00
2010	Annual	Mon-Sun	Trenchers	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.34E+00	9.27E+00	6.10E+01	4.58E-04	4.10E-03	1.04E-03	8.32E-03	7.50E-06	6.67E-01	9.42E-05	0.00E+00	4.94E-05	4.42E-04	1.13E-04	8.98E-04	8.09E-07	7.19E-02	1.02E-05	0.00E+00

2010	Annual	Mon-Sun	Trenchers	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.79E-01	8.32E-01	8.43E+00	4.58E-05	3.39E-04	1.15E-04	1.11E-03	1.04E-06	9.26E-02	1.04E-05	0.00E+00	5.51E-05	4.08E-04	1.38E-04	1.34E-03	1.25E-06	1.11E-01	1.25E-05	0.00E+00
2010	Annual	Mon-Sun	Trenchers	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	6.11E-01	1.06E+00	1.50E+01	7.28E-05	8.67E-04	1.84E-04	1.80E-03	1.62E-06	1.65E-01	1.66E-05	0.00E+00	6.86E-05	8.17E-04	1.73E-04	1.70E-03	1.53E-06	1.56E-01	1.56E-05	0.00E+00
2010	Annual	Mon-Sun	Trenchers	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.19E-01	3.80E-01	1.02E+01	4.95E-05	5.86E-04	1.25E-04	1.24E-03	1.12E-06	1.11E-01	1.13E-05	0.00E+00	1.30E-04	1.54E-03	3.30E-04	3.26E-03	2.95E-06	2.93E-01	2.98E-05	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.57E+00	3.62E+00	5.15E+00	3.51E-05	4.53E-04	9.85E-05	5.10E-04	7.26E-07	5.61E-02	8.88E-06	0.00E+00	9.68E-06	1.25E-04	2.72E-05	1.41E-04	2.00E-07	1.55E-02	2.45E-06	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.81E+00	1.11E+01	3.91E+01	2.53E-04	2.67E-03	4.01E-04	3.42E-03	5.02E-06	4.28E-01	3.62E-05	0.00E+00	2.27E-05	2.40E-04	3.61E-05	3.07E-04	4.52E-07	3.85E-02	3.25E-06	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.11E+00	2.57E+00	1.65E+01	6.18E-05	9.68E-04	1.19E-04	1.17E-03	2.04E-06	1.81E-01	1.08E-05	0.00E+00	2.40E-05	3.77E-04	4.64E-05	4.57E-04	7.93E-07	7.05E-02	4.19E-06	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.58E-01	2.21E+00	1.88E+01	4.24E-05	3.82E-04	1.06E-04	1.31E-03	2.34E-06	2.08E-01	9.53E-06	0.00E+00	1.92E-05	1.73E-04	4.78E-05	5.92E-04	1.06E-06	9.40E-02	4.31E-06	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.13E+00	4.92E+00	6.92E+01	1.51E-04	1.37E-03	3.66E-04	4.19E-03	7.51E-06	7.65E-01	3.30E-05	0.00E+00	3.07E-05	2.78E-04	7.43E-05	8.52E-04	1.53E-06	1.56E-01	6.71E-06	0.00E+00
2010	Annual	Mon-Sun	Bore/Drill Rigs	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.39E+00	7.83E+00	2.18E+02	4.81E-04	4.30E-03	1.17E-03	1.36E-02	2.42E-05	2.41E+00	1.06E-04	0.00E+00	6.14E-05	5.49E-04	1.49E-04	1.74E-03	3.09E-06	3.07E-01	1.35E-05	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.67E+01	6.52E+01	7.62E+01	8.98E-04	1.02E-02	3.68E-03	8.59E-03	1.05E-05	8.15E-01	3.32E-04	0.00E+00	1.38E-05	1.57E-04	5.65E-05	1.32E-04	1.62E-07	1.25E-02	5.10E-06	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.53E+01	1.77E+02	5.98E+02	6.90E-03	4.70E-02	1.24E-02	7.43E-02	7.64E-05	6.51E+00	1.12E-03	0.00E+00	3.90E-05	2.66E-04	6.98E-05	4.20E-04	4.31E-07	3.68E-02	6.30E-06	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.74E+01	3.42E+02	1.75E+03	1.13E-02	1.14E-01	2.50E-02	1.90E-01	2.15E-04	1.92E+01	2.25E-03	0.00E+00	3.31E-05	3.35E-04	7.32E-05	5.56E-04	6.31E-07	5.61E-02	6.60E-06	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.55E+01	1.39E+02	9.99E+02	3.60E-03	2.73E-02	1.01E-02	1.04E-01	1.24E-04	1.10E+01	9.09E-04	0.00E+00	2.59E-05	1.97E-04	7.25E-05	7.46E-04	8.92E-07	7.93E-02	6.54E-06	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.56E+01	1.00E+02	1.06E+03	3.56E-03	3.09E-02	9.93E-03	9.65E-02	1.15E-04	1.17E+01	8.96E-04	0.00E+00	3.55E-05	3.08E-04	9.91E-05	9.63E-04	1.15E-06	1.17E-01	8.94E-06	0.00E+00
2010	Annual	Mon-Sun	Excavators	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.71E+00	6.70E+00	1.18E+02	4.01E-04	3.42E-03	1.11E-03	1.10E-02	1.30E-05	1.30E+00	1.00E-04	0.00E+00	5.98E-05	5.10E-04	1.65E-04	1.65E-03	1.95E-06	1.94E-01	1.49E-05	0.00E+00
2010	Annual	Mon-Sun	Concrete/Industrial Saws	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.19E-01	6.67E-01	9.37E-01	1.00E-05	1.07E-04	4.10E-05	1.02E-04	1.30E-07	1.01E-02	3.70E-06	0.00E+00	1.50E-05	1.60E-04	6.15E-05	1.53E-04	1.95E-07	1.51E-02	5.55E-06	0.00E+00
2010	Annual	Mon-Sun	Concrete/Industrial Saws	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.31E-01	1.16E+00	3.95E+00	4.17E-05	2.89E-04	7.79E-05	4.99E-04	5.05E-07	4.30E-02	7.03E-06	0.00E+00	3.59E-05	2.49E-04	6.70E-05	4.30E-04	4.35E-07	3.70E-02	6.05E-06	0.00E+00
2010	Annual	Mon-Sun	Concrete/Industrial Saws	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.40E-02	3.81E-02	2.78E-01	1.64E-06	1.67E-05	3.67E-06	3.13E-05	3.43E-08	3.05E-03	3.31E-07	0.00E+00	4.31E-05	4.39E-04	9.62E-05	8.22E-04	9.00E-07	8.00E-02	8.68E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.07E-01	1.43E+00	1.56E+00	2.06E-05	2.26E-04	9.17E-05	1.82E-04	2.14E-07	1.66E-02	8.27E-06	0.00E+00	1.44E-05	1.58E-04	6.41E-05	1.27E-04	1.50E-07	1.16E-02	5.78E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.47E+00	1.57E+01	3.61E+01	4.72E-04	2.92E-03	8.75E-04	5.13E-03	4.61E-06	3.93E-01	7.90E-05	0.00E+00	3.01E-05	1.86E-04	5.58E-05	3.27E-04	2.94E-07	2.51E-02	5.03E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.47E+00	1.57E+01	5.76E+01	4.22E-04	3.83E-03	9.49E-04	7.29E-03	7.09E-06	6.30E-01	8.56E-05	0.00E+00	2.69E-05	2.44E-04	6.05E-05	4.65E-04	4.52E-07	4.01E-02	5.46E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.66E+00	3.04E+01	1.55E+02	7.14E-04	5.27E-03	1.89E-03	1.88E-02	1.92E-05	1.70E+00	1.70E-04	0.00E+00	2.35E-05	1.73E-04	6.21E-05	6.18E-04	6.30E-07	5.60E-02	5.60E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.17E+00	1.11E+01	9.12E+01	3.82E-04	3.69E-03	1.01E-03	9.87E-03	9.85E-06	1.00E+00	9.15E-05	0.00E+00	3.42E-05	3.31E-04	9.10E-05	8.85E-04	8.83E-07	9.00E-02	8.21E-06	0.00E+00
2010	Annual	Mon-Sun	Cranes	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.11E+00	2.50E+01	3.44E+02	1.46E-03	1.39E-02	3.85E-03	3.81E-02	3.80E-05	3.78E+00	3.47E-04	0.00E+00	5.83E-05	5.57E-04	1.54E-04	1.52E-03	1.52E-06	1.51E-01	1.39E-05	0.00E+00
2010	Annual	Mon-Sun	Graders	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.68E-01	4.38E-01	5.66E-01	7.08E-06	7.85E-05	3.06E-05	6.48E-05	7.79E-08	6.03E-03	2.76E-06	0.00E+00	1.61E-05	1.79E-04	6.99E-05	1.48E-04	1.78E-07	1.38E-02	6.31E-06	0.00E+00
2010	Annual	Mon-Sun	Graders	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.12E+01	2.92E+01	1.01E+02	1.24E-03	7.97E-03	2.27E-03	1.35E-02	1.28E-05	1.09E+00	2.05E-04	0.00E+00	4.24E-05	2.73E-04	7.75E-05	4.63E-04	4.39E-07	3.74E-02	7.00E-06	0.00E+00
2010	Annual	Mon-Sun	Graders	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.82E+01	9.99E+01	5.65E+02	3.90E-03	3.70E-02	8.69E-03	6.75E-02	6.96E-05	6.18E+00	7.84E-04	0.00E+00	3.91E-05	3.70E-04	8.70E-05	6.76E-04	6.97E-07	6.19E-02	7.85E-06	0.00E+00
2010	Annual	Mon-Sun	Graders	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.37E+01	6.20E+01	4.84E+02	2.05E-03	1.53E-02	5.45E-03	5.54E-02	6.00E-05	5.33E+00	4.92E-04	0.00E+00	3.31E-05	2.47E-04	8.80E-05	8.94E-04	9.67E-07	8.60E-02	7.94E-06	0.00E+00
2010	Annual	Mon-Sun	Graders	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	6.71E-01	1.75E+00	1.83E+01	7.07E-05	6.59E-04	1.88E-04	1.86E-03	1.97E-06	2.01E-01	1.70E-05	0.00E+00	4.03E-05	3.76E-04	1.07E-04	1.06E-03	1.13E-06	1.15E-01	9.69E-06	0.00E+00
2010	Annual	Mon-Sun	Graders	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.09E-01	2.86E-01	6.31E+00	2.47E-05	2.28E-04	6.55E-05	6.57E-04	6.98E-07	6.94E-02	5.91E-06	0.00E+00	8.64E-05	7.96E-04	2.29E-04	2.30E-03	2.44E-06	2.43E-01	2.07E-05	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Trucks	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	7.79E-01	4.25E+00	2.43E+01	1.64E-04	1.62E-03	3.68E-04	2.72E-03	2.99E-06	2.66E-01	3.32E-05	0.00E+00	3.85E-05	3.81E-04	8.65E-05	6.39E-04	7.03E-07	6.25E-02	7.80E-06	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Trucks	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.75E+00	3.14E+01	2.37E+02	9.01E-04	6.75E-03	2.57E-03	2.53E-02	2.94E-05	2.61E+00	2.32E-04	0.00E+00	2.87E-05	2.15E-04	8.19E-05	8.07E-04	9.36E-07	8.32E-02	7.39E-06	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Trucks	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.10E+00	4.42E+01	5.46E+02	1.93E-03	1.67E-02	5.51E-03	5.12E-02	5.91E-05	6.02E+00	4.97E-04	0.00E+00	4.36E-05	3.77E-04	1.25E-04	1.16E-03	1.34E-06	1.36E-01	1.12E-05	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Trucks	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.29E+01	1.25E+02	2.51E+03	8.99E-03	7.66E-02	2.55E-02	2.43E-01	2.78E-04	2.77E+01	2.30E-03	0.00E+00	7.17E-05	6.11E-04	2.03E-04	1.93E-03	2.22E-06	2.21E-01	1.83E-05	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.92E+00	5.02E+00	1.03E+01	1.30E-04	1.40E-03	5.69E-04	1.18E-03	1.43E-06	1.10E-01	5.14E-05	0.00E+00	2.60E-05	2.79E-04	1.13E-04	2.35E-04	2.84E-07	2.20E-02	1.02E-05	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.40E+00	1.41E+01	5.40E+01	6.78E-04	4.21E-03	1.24E-03	7.34E-03	6.89E-06	5.88E-01	1.12E-04	0.00E+00	4.79E-05	2.98E-04	8.79E-05	5.19E-04	4.87E-07	4.15E-02	7.93E-06	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.29E+00	5.99E+00	4.58E+01	3.20E-04	2.91E-03	7.08E-04	5.57E-03	5.63E-06	5.01E-01	6.39E-05	0.00E+00	5.33E-05	4.86E-04	1.18E-04	9.29E-04	9.40E-07	8.36E-02	1.07E-05	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.28E-01	5.96E-01	6.61E+00	2.50E-05	1.85E-04	6.68E-05	7.58E-04	8.19E-07	7.28E-02	6.02E-06	0.00E+00	4.20E-05	3.11E-04	1.12E-04	1.27E-03	1.37E-06	1.22E-01	1.01E-05	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.28E+00	3.36E+00	5.69E+01	1.99E-04	1.77E-03	5.18E-04	5.79E-03	6.15E-06	6.26E-01	4.68E-05	0.00E+00	5.93E-05	5.27E-04	1.54E-04	1.72E-03	1.83E-06	1.87E-01	1.39E-05	0.00E+00
2010	Annual	Mon-Sun	Crushing/Proc. Equipment	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.82E-01	4.78E-01	1.28E+01	4.54E-05	3.88E-04	1.18E-04	1.35E-03	1.41E-06	1.41E-01	1.07E-05	0.00E+00	9.49E-05	8.12E-04	2.48E-04	2.82E-03	2.96E-06	2.94E-01	2.23E-05	0.00E+00
2010	Annual	Mon-Sun	Rough Terrain Forklifts	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.33E+00	4.14E+00	6.54E+00	7.80E-05	8.65E-04	3.28E-04	7.35E-04	9.04E-07	7.00E-02	2.96E-05	0.00E+00	1.89E-05	2.09E-04	7.94E-05	1.78E-04	2.19E-07	1.69E-02	7.16E-06	0.00E+00
2010	Annual	Mon-Sun	Rough Terrain Forklifts	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	6.37E+01	1.98E+02	5.67E+02	6.68E-03	4.40E-02	1.20E-02	7.25E-02	7.25E-05	6.18E+00	1.08E-03	0.00E+00	3.37E-05	2.22E-04	6.06E-05	3.66E-04	3.66E-07	3.12E-02	5.46E-06	0.00E+00
2010	Annual	Mon-Sun	Rough Terrain Forklifts	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.16E+00	2.54E+01	1.45E+02	9.48E-04	9.25E-03	2.08E-03	1.63E-02	1.78E-05	1.58E+00	1.87E-04	0.00E+00	3.74E-05	3.65E-04	8.19E-05	6.43E-04	7.02E-07	6.24E-02	7.39E-06	0.00E+00
2010	Annual	Mon-Sun	Rough Terrain Forklifts	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.55E-01	1.42E+00	1.10E+01	4.01E-05	3.02E-04	1.08E-04	1.18E-03	1.36E-06	1.21E-01	9.72E-06	0.00E+00	2.83E-05	2.13E-04	7.61E-05	8.31E-04	9.60E-07	8.53E-02	6.87E-06	0.00E+00
2010	Annual	Mon-Sun	Rough Terrain Forklifts	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.99E-01	9.31E-01	1.08E+01	3.67E-05	3.20E-04	9.76E-05	1.02E-03	1.17E-06	1.19E-01	8.80E-06	0.00E+00	3.94E-05	3.43E-04	1.05E-04	1.10E-03	1.26E-06	1.28E-01	9.45E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.26E+00	8.71E+00	1.27E+01	1.57E-04	1.74E-03	6.78E-04	1.45E-03	1.75E-06	1.36E-01	6.12E-05	0.00E+00	1.80E-05	2.00E-04	7.79E-05	1.66E-04	2.01E-07	1.56E-02	7.03E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	8.86E+01	2.37E+02	6.40E+02	7.81E-03	5.05E-02	1.43E-02	8.55E-02	8.18E-05	6.97E+00	1.29E-03	0.00E+00	3.30E-05	2.13E-04	6.02E-05	3.61E-04	3.45E-07	2.94E-02	5.43E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.99E+01	1.33E+02	6.48E+02	4.43E-03	4.22E-02	9.84E-03	7.68E-02	7.98E-05	7.09E+00	8.87E-04	0.00E+00	3.32E-05	3.16E-04	7.37E-05	5.75E-04	5.98E-07	5.31E-02	6.65E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.96E+01	1.33E+02	8.97E+02	3.73E-03	2.79E-02	9.90E-03	1.02E-01	1.11E-04	9.88E+00	8.94E-04	0.00E+00	2.81E-05	2.10E-04	7.46E-05	7.67E-04	8.37E-07	7.44E-02	6.73E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.07E+01	5.52E+01	5.94E+02	2.26E-03	2.11E-02	6.00E-03	5.98E-02	6.42E-05	6.54E+00	5.41E-04	0.00E+00	4.09E-05	3.82E-04	1.09E-04	1.08E-03	1.16E-06	1.18E-01	9.79E-06	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Loaders	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.41E+00	1.18E+01	2.60E+02	1.00E-03	9.24E-03	2.64E-03	2.69E-02	2.88E-05	2.86E+00	2.39E-04	0.00E+00	8.50E-05	7.83E-04	2.24E-04	2.28E-03	2.44E-06	2.43E-01	2.02E-05	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Dozers	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.20E-01	5.37E-01	3.18E+00	2.78E-05	2.33E-04	6.43E-05	4.79E-04	3.91E-07	3.47E-02	5.80E-06	0.00E+00	5.17E-05	4.34E-04	1.20E-04	8.93E-04	7.28E-07	6.47E-02	1.08E-05	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Dozers	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.93E+00	1.31E+01	1.10E+02	7.04E-04	5.10E-03	1.82E-03	1.61E-02	1.36E-05	1.21E+00	1.65E-04	0.00E+00	5.35E-05	3.88E-04	1.39E-04	1.22E-03	1.03E-06	9.17E-02	1.25E-05	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Dozers	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.52E+00	2.02E+01	2.45E+02	1.38E-03	1.76E-02	3.66E-03	3.24E-02	2.63E-05	2.68E+00	3.30E-04	0.00E+00	6.85E-05	8.70E-04	1.81E-04	1.60E-03	1.30E-06	1.32E-01	1.63E-05	0.00E+00
2010	Annual	Mon-Sun	Rubber Tired Dozers	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	4.85E+00	2.17E+01	3.96E+02	2.26E-03	2.85E-02	5.94E-03	5.32E-02	4.35E-05	4.33E+00	5.36E-04	0.00E+00	1.04E-04	1.31E-03	2.73E-04	2.45E-03	2.00E-06	1.99E-01	2.47E-05	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.02E+01	5.36E+01	7.57E+01	8.34E-04	9.49E-03	3.36E-03	8.33E-03	1.05E-05	8.12E-01	3.03E-04	0.00E+00	1.56E-05	1.77E-04	6.27E-05	1.56E-04	1.96E-07	1.52E-02	5.66E-06	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.70E+02	7.17E+02	1.70E+03	1.84E-02	1.30E-01	3.25E-02	2.03E-01	2.17E-04	1.85E+01	2.94E-03	0.00E+00	2.57E-05	1.81E-04	4.54E-05	2.83E-04	3.03E-07	2.58E-02	4.10E-06	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.01E+01	5.35E+01	2.47E+02	1.50E-03	1.57E-02	3.25E-03	2.58E-02	3.05E-05	2.71E+00	2.93E-04	0.00E+00	2.81E-05	2.94E-04	6.07E-05	4.82E-04	5.70E-07	5.06E-02	5.48E-06	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	6.52E+00	1.73E+01	1.35E+02	4.52E-04	3.49E-03	1.23E-03	1.34E-02	1.67E-05	1.48E+00	1.11E-04	0.00E+00	2.61E-05	2.02E-04	7.08E-05	7.74E-04	9.65E-07	8.58E-02	6.39E-06	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.05E+01	2.79E+01	4.36E+02	1.37E-03	1.18E-02	3.67E-03	3.80E-02	5.41E-05	4.81E+00	3.31E-04	0.00E+00	4.90E-05	4.24E-04	1.31E-04	1.36E-03	1.94E-06	1.72E-01	1.19E-05	0.00E+00
2010	Annual	Mon-Sun	Tractors/Loaders/Backhoes	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.21E+01	5.86E+01	1.37E+03	4.37E-03	3.73E-02	1.17E-02	1.23E-01	1.70E-04	1.51E+01	1.05E-03	0.00E+00	7.47E-05	6.37E-04	1.99E-04	2.11E-03	2.91E-06	2.58E-01	1.79E-05	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.68E-01	4.84E-01	5.66E-01	7.74E-06	8.50E-05	3.49E-05	6.72E-05	7.77E-08	6.01E-03	3.15E-06	0.00E+00	1.60E-05	1.76E-04	7.22E-05	1.39E-04	1.61E-07	1.24E-02	6.52E-06	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	9.51E+01	2.74E+02	8.30E+02	1.12E-02	6.88E-02	2.12E-02	1.24E-01	1.06E-04	9.02E+00	1.92E-03	0.00E+00	4.09E-05	2.51E-04	7.74E-05	4.51E-04	3.86E-07	3.29E-02	6.99E-06	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	3.22E+01	9.29E+01	5.15E+02	3.97E-03	3.52E-02	9.00E-03	6.86E-02	6.33E-05	5.62E+00	8.12E-04	0.00E+00	4.27E-05	3.80E-04	9.69E-05	7.39E-04	6.81E-07	6.05E-02	8.75E-06	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.77E+01	7.98E+01	6.03E+02	3.13E-03	2.29E-02	8.18E-03	7.75E-02	7.45E-05	6.62E+00	7.38E-04	0.00E+00	3.92E-05	2.87E-04	1.03E-04	9.71E-04	9.34E-07	8.30E-02	9.25E-06	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.90E+01	5.47E+01	6.45E+02	3.01E-03	3.26E-02	7.96E-03	7.45E-02	6.95E-05	7.08E+00	7.18E-04	0.00E+00	5.50E-05	5.96E-04	1.46E-04	1.36E-03	1.27E-06	1.29E-01	1.31E-05	0.00E+00
2010	Annual	Mon-Sun	Crawler Tractors	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.92E+00	8.42E+00	1.78E+02	8.38E-04	9.00E-03	2.21E-03	2.10E-02	1.96E-05	1.95E+00	1.99E-04	0.00E+00	9.95E-05	1.07E-03	2.62E-04	2.49E-03	2.33E-06	2.32E-01	2.37E-05	0.00E+00
2010	Annual	Mon-Sun	Skid Steer Loaders	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.09E+02	4.88E+02	5.76E+02	5.28E-03	6.11E-02	1.91E-02	6.00E-02	8.04E-05	6.22E+00	1.73E-03	0.00E+00	1.08E-05	1.25E-04	3.92E-05	1.23E-04	1.65E-07	1.27E-02	3.54E-06	0.00E+00
2010	Annual	Mon-Sun	Skid Steer Loaders	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.09E+02	2.56E+02	5.00E+02	4.54E-03	3.60E-02	7.75E-03	5.28E-02	6.41E-05	5.46E+00	6.99E-04	0.00E+00	1.77E-05	1.41E-04	3.03E-05	2.06E-04	2.51E-07	2.14E-02	2.73E-06	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Tractors	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.20E-02	3.68E-02	1.59E-01	2.31E-06	1.37E-05	4.51E-06	2.61E-05	2.02E-08	1.72E-03	4.07E-07	0.00E+00	6.27E-05	3.72E-04	1.23E-04	7.09E-04	5.49E-07	4.68E-02	1.11E-05	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Tractors	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.46E+01	4.50E+01	2.69E+02	2.28E-03	1.92E-02	5.23E-03	3.97E-02	3.30E-05	2.93E+00	4.72E-04	0.00E+00	5.06E-05	4.28E-04	1.16E-04	8.82E-04	7.33E-07	6.52E-02	1.05E-05	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Tractors	D	250	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.38E+01	4.25E+01	2.53E+02	1.56E-03	1.14E-02	4.00E-03	3.62E-02	3.12E-05	2.77E+00	3.61E-04	0.00E+00	3.68E-05	2.67E-04	9.40E-05	8.52E-04	7.33E-07	6.52E-02	8.48E-06	0.00E+00
2010	Annual	Mon-Sun	Off-Highway Tractors	D	750	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.83E+01	5.63E+01	1.46E+03	8.04E-03	1.00E-01	2.08E-02	1.92E-01	1.61E-04	1.60E+01	1.88E-03	0.00E+00	1.43E-04	1.78E-03	3.71E-04	3.42E-03	2.85E-06	2.84E-01	3.34E-05	0.00E+00
2010	Annual	Mon-Sun	Other Construction Equipment	D	50	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.03E+00	1.99E+00	2.59E+00	2.62E-05	2.91E-04	1.03E-04	2.77E-04	3.60E-07	2.78E-02	9.26E-06	0.00E+00	1.31E-05	1.46E-04	5.16E-05	1.39E-04	1.81E-07	1.40E-02	4.66E-06	0.00E+00
2010	Annual	Mon-Sun	Other Construction Equipment	D	120	Construction and Mining Equipment	San Bernardino	MD	MOJ	1.70E+00	3.29E+00	1.22E+01	1.21E-04	8.89E-04	2.17E-04	1.42E-03	1.56E-06	1.33E-01	1.95E-05	0.00E+00	3.70E-05	2.71E-04	6.59E-05	4.32E-04	4.74E-07	4.04E-02	5.95E-06	0.00E+00
2010	Annual	Mon-Sun	Other Construction Equipment	D	175	Construction and Mining Equipment	San Bernardino	MD	MOJ	2.35E+00	4.53E+00	2.20E+01	1.23E-04	1.34E-03	2.65E-04	2.25E-03	2.71E-06	2.41E-01	2.39E-05	0.00E+00	2.71E-05	2.95E-04	5.83E-05	4.96E-04	5.99E-07	5.32E-02	5.26E-06	0.00E+00
2010	Annual	Mon-Sun	Other Construction Equipment	D	500	Construction and Mining Equipment	San Bernardino	MD	MOJ	5.45E+00	1.05E+01	1.21E+02	3.57E-04	3.19E-03	8.97E-04	1.04E-02	1.31E-05	1.34E+00	8.09E-05	0.00E+00	3.39E-05	3.03E-04	8.52E-05	9.90E-04	1.25E-06	1.27E-01	7.69E-06	0.00E+00
2010	Annual	Mon-Sun	Aerial Lifts	D	50	Industrial Equipment	San Bernardino	MD	MOJ	3.93E+00	4.14E+00	3.77E+00	3.93E-05	4.02E-04	1.58E-04	4.11E-04	5.25E-07	4.06E-02	1.42E-05	0.00E+00	9.48E-06	9.71E-05	3.81E-05	9.92E-05	1.27E-07	9.80E-03	3.44E-06	0.00E+00
2010	Annual	Mon-Sun	Aerial Lifts	D	120	Industrial Equipment	San Bernardino	MD	MOJ	3.49E+00	3.67E+00	6.40E+00	6.67E-05	4.59E-04	1.30E-04	8.29E-04	8.19E-07	6.98E-02	1.17E-05	0.00E+00	1.82E-05	1.25E-04	3.54E-05	2.26E-04	2.23E-07	1.90E-02	3.19E-06	0.00E+00
2010	Annual	Mon-Sun	Aerial Lifts	D	500	Industrial Equipment	San Bernardino	MD	MOJ	4.47E-01	4.71E-01	4.54E+00	1.41E-05	1.36E-04	3.55E-05	4.53E-04	4.91E-07	5.00E-02	3.20E-06	0.00E+00	2.99E-05	2.90E-04	7.54E-05	9.63E-04	1.04E-06	1.06E-01	6.80E-06	0.00E+00
2010	Annual	Mon-Sun	Aerial Lifts	D	750	Industrial Equipment	San Bernardino	MD	MOJ	3.59E-02	3.79E-02	6.60E-01	2.07E-06	1.98E-05	5.32E-06	6.77E-05	7.31E-08	7.27E-03	4.80E-07	0.00E+00	5.48E-05	5.24E-04	1.40E-04	1.79E-03	1.93E-06	1.92E-01	1.27E-05	0.00E+00
2010	Annual	Mon-Sun	Forklifts	D	50	Industrial Equipment	San Bernardino	MD	MOJ	1.19E+00	5.89E+00	4.04E+00	4.83E-05	5.39E-04	1.98E-04	4.51E-04	5.58E-07	4.31E-02	1.79E-05	0.00E+00	8.20E-06	9.16E-05	3.37E-05	7.66E-05	9.48E-08	7.33E-03	3.04E-06	0.00E+00
2010	Annual	Mon-Sun	Forklifts	D	120	Industrial Equipment	San Bernardino	MD	MOJ	1.87E+00	9.23E+00	1.32E+01	1.59E-04	1.04E-03	2.80E-04	1.62E-03	1.69E-06	1.44E-01	2.53E-05	0.00E+00	1.73E-05	1.12E-04	3.04E-05	1.76E-04	1.83E-07	1.56E-02	2.74E-06	0.00E+00
2010	Annual	Mon-Sun	Forklifts	D	175	Industrial Equipment	San Bernardino	MD	MOJ	1.88E+00	9.28E+00	2.37E+01	1.57E-04	1.53E-03	3.45E-04	2.59E-03	2.92E-06	2.60E-01	3.12E-05	0.00E+00	1.70E-05	1.65E-04	3.72E-05	2.79E-04	3.15E-07	2.80E-02	3.36E-06	0.00E+00
2010	Annual	Mon-Sun	Forklifts	D	250	Industrial Equipment	San Bernardino	MD	MOJ	1.87E+00	9.21E+00	3.22E+01	1.05E-04	7.87E-04	3.01E-04	3.32E-03	3.99E-06	3.55E-01	2.72E-05	0.00E+00	1.14E-05	8.54E-05	3.27E-05	3.60E-04	4.33E-07	3.85E-02	2.95E-06	0.00E+00
2010	Annual	Mon-Sun	Forklifts	D	500	Industrial Equipment	San Bernardino	MD	MOJ	7.99E-01	3.94E+00	1.98E+01	6.05E-05	4.62E-04	1.72E-04	1.76E-03	2.15E-06	2.19E-01	1.55E-05	0.00E+00	1.54E-05	1.17E-04	4.36E-05	4.48E-04	5.44E-07	5.54E-02	3.93E-06	0.00E+00
2010	Annual	Mon-Sun	Sweepers/Scrubbers	D	50	Industrial Equipment	San Bernardino	MD	MOJ	1.71E+00	5.70E+00	8.42E+00	1.02E-04	1.12E-03	4.34E-04	9.41E-04	1.16E-06	8.99E-02	3.92E-05	0.00E+00	1.79E-05	1.96E-04	7.61E-05	1.65E-04	2.04E-07	1.58E-02	6.87E-06	0.00E+00
2010	Annual	Mon-Sun	Sweepers/Scrubbers	D	120	Industrial Equipment	San Bernardino	MD	MOJ	2.82E+00	9.44E+00	3.25E+01	4.01E-04	2.52E-03	7.10E-04	4.10E-03	4.15E-06	3.54E-01	6.41E-05	0.00E+00	4.25E-05	2.67E-04	7.52E-05	4.34E-04	4.40E-07	3.75E-02	6.79E-06	0.00E+00
2010	Annual	Mon-Sun	Sweepers/Scrubbers	D	175	Industrial Equipment	San Bernardino	MD	MOJ	1.30E+00	4.34E+00	2.76E+01	1.87E-04	1.75E-03	4.06E-04	3.12E-03	3.39E-06	3.02E-01	3.66E-05	0.00E+00	4.30E-05	4.03E-04	9.35E-05	7.18E-04	7.81E-07	6.94E-02	8.44E-06	0.00E+00
2010	Annual	Mon-Sun	Sweepers/Scrubbers	D	250	Industrial Equipment	San Bernardino	MD	MOJ	2.08E-01	6.95E-01	5.10E+00	1.70E-05	1.27E-04	4.69E-05	5.45E-04	6.33E-07	5.63E-02	4.24E-06	0.00E+00	2.45E-05	1.82E-04	6.75E-05	7.84E-04	9.11E-07	8.09E-02	6.09E-06	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	50	Industrial Equipment	San Bernardino	MD	MOJ	3.81E-01	1.49E+00	1.53E+00	2.14E-05	2.30E-04	9.62E-05	1.80E-04	2.09E-07	1.62E-02	8.68E-06	0.00E+00	1.44E-05	1.54E-04	6.46E-05	1.21E-04	1.40E-07	1.09E-02	5.83E-06	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	120	Industrial Equipment	San Bernardino	MD	MOJ	1.53E+00	5.96E+00	1.70E+01	2.39E-04	1.39E-03	4.38E-04	2.46E-03	2.17E-06	1.85E-01	3.96E-05	0.00E+00	4.00E-05	2.33E-04	7.36E-05	4.13E-04	3.64E-07	3.10E-02	6.64E-06	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	175	Industrial Equipment	San Bernardino	MD	MOJ	1.53E+00	5.98E+00	2.62E+01	2.03E-04	1.74E-03	4.56E-04	3.41E-03	3.22E-06	2.87E-01	4.12E-05	0.00E+00	3.40E-05	2.91E-04	7.63E-05	5.71E-04	5.39E-07	4.79E-02	6.89E-06	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	250	Industrial Equipment	San Bernardino	MD	MOJ	1.52E+00	5.95E+00	3.66E+01	1.52E-04	1.09E-03	4.18E-04	4.49E-03	4.54E-06	4.03E-01	3.77E-05	0.00E+00	2.55E-05	1.84E-04	7.03E-05	7.54E-04	7.62E-07	6.77E-02	6.34E-06	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	500	Industrial Equipment	San Bernardino	MD	MOJ	1.52E+00	5.94E+00	7.16E+01	2.73E-04	2.38E-03	7.45E-04	7.76E-03	7.73E-06	7.88E-01	6.72E-05	0.00E+00	4.60E-05	4.01E-04	1.25E-04	1.31E-03	1.30E-06	1.33E-01	1.13E-05	0.00E+00
2010	Annual	Mon-Sun	Other General Industrial Equipmen	D	750	Industrial Equipment	San Bernardino	MD	MOJ	3.80E-01	1.48E+00	2.95E+01	1.14E-04	9.82E-04	3.09E-04	3.29E-03	3.26E-06	3.24E-01	2.79E-05	0.00E+00	7.70E-05	6.61E-04	2.08E-04	2.21E-03	2.20E-06	2.19E-01	1.88E-05	0.00E+00
2010	Annual	Mon-Sun	Other Material Handling Equipment	D	50	Industrial Equipment	San Bernardino	MD	MOJ	1.09E-02	3.95E-02	5.65E-02	7.86E-07	8.43E-06	3.53E-06	6.64E-06	7.75E-09	5.99E-04	3.19E-07	0.00E+00	1.99E-05	2.13E-04	8.94E-05	1.68E-04	1.96E-07	1.52E-02	8.06E-06	0.00E+00
2010	Annual	Mon-Sun	Other Material Handling Equipment	D	120	Industrial Equipment	San Bernardino	MD	MOJ	6.56E-02	2.37E-01	6.61E-01	9.22E-06	5.37E-05	1.70E-05	9.55E-05	8.43E-08	7.19E-03	1.53E-06	0.00E+00	3.89E-05	2.27E-04	7.15E-05	4.02E-04	3.56E-07	3.03E-02	6.45E-06	0.00E+00
2010	Annual	Mon-Sun	Other Material Handling Equipment	D	175	Industrial Equipment	San Bernardino	MD	MOJ	7.03E-02	2.54E-01	1.42E+00	1.09E-05	9.37E-05	2.45E-05	1.84E-04	1.74E-07	1.55E-02	2.21E-06	0.00E+00	4.30E-05	3.69E-04	9.63E-05	7.25E-04	6.86E-07	6.10E-02	8.69E-06	0.00E+00

2010	Annual	Mon-Sun	Other Material Handling Equipment	D	250	Industrial Equipment	San Bernardino	MD	MOJ	1.67E-01	6.04E-01	3.98E+00	1.64E-05	1.18E-04	4.49E-05	4.87E-04	4.93E-07	4.38E-02	4.05E-06	0.00E+00	2.71E-05	1.96E-04	7.43E-05	8.05E-04	8.15E-07	7.24E-02	6.71E-06	0.00E+00
2010	Annual	Mon-Sun	Other Material Handling Equipment	D	500	Industrial Equipment	San Bernardino	MD	MOJ	3.13E-02	1.13E-01	9.82E-01	3.73E-06	3.27E-05	1.01E-05	1.06E-04	1.06E-07	1.08E-02	9.11E-07	0.00E+00	3.30E-05	2.89E-04	8.94E-05	9.41E-04	9.40E-07	9.57E-02	8.07E-06	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	50	Light Commercial Equipment	San Bernardino	MD	MOJ	3.34E+01	3.09E+01	4.38E+01	4.42E-04	4.51E-03	1.74E-03	4.75E-03	6.11E-06	4.72E-01	1.57E-04	0.00E+00	1.43E-05	1.46E-04	5.65E-05	1.54E-04	1.98E-07	1.53E-02	5.10E-06	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	120	Light Commercial Equipment	San Bernardino	MD	MOJ	5.07E+01	4.69E+01	1.67E+02	1.69E-03	1.19E-02	3.31E-03	2.14E-02	2.14E-05	1.83E+00	2.99E-04	0.00E+00	3.60E-05	2.53E-04	7.05E-05	4.56E-04	4.57E-07	3.89E-02	6.36E-06	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	175	Light Commercial Equipment	San Bernardino	MD	MOJ	3.00E+00	2.77E+00	1.79E+01	1.01E-04	1.04E-03	2.34E-04	2.06E-03	2.21E-06	1.97E-01	2.11E-05	0.00E+00	3.63E-05	3.74E-04	8.44E-05	7.44E-04	7.98E-07	7.09E-02	7.62E-06	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	250	Light Commercial Equipment	San Bernardino	MD	MOJ	1.68E+00	1.55E+00	1.49E+01	4.81E-05	3.89E-04	1.26E-04	1.62E-03	1.85E-06	1.64E-01	1.14E-05	0.00E+00	3.10E-05	2.51E-04	8.15E-05	1.04E-03	1.19E-06	1.06E-01	7.35E-06	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	500	Light Commercial Equipment	San Bernardino	MD	MOJ	3.73E+00	3.45E+00	5.26E+01	1.59E-04	1.53E-03	3.99E-04	5.20E-03	5.69E-06	5.80E-01	3.60E-05	0.00E+00	4.60E-05	4.44E-04	1.16E-04	1.51E-03	1.65E-06	1.68E-01	1.05E-05	0.00E+00
2010	Annual	Mon-Sun	Generator Sets	D	750	Light Commercial Equipment	San Bernardino	MD	MOJ	2.31E+00	2.14E+00	5.27E+01	1.61E-04	1.53E-03	4.13E-04	5.35E-03	5.85E-06	5.81E-01	3.73E-05	0.00E+00	7.53E-05	7.17E-04	1.93E-04	2.50E-03	2.73E-06	2.72E-01	1.74E-05	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	50	Light Commercial Equipment	San Bernardino	MD	MOJ	1.46E+01	1.61E+01	2.57E+01	2.70E-04	2.78E-03	1.09E-03	2.81E-03	3.57E-06	2.76E-01	9.85E-05	0.00E+00	1.68E-05	1.72E-04	6.77E-05	1.74E-04	2.22E-07	1.72E-02	6.11E-06	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	120	Light Commercial Equipment	San Bernardino	MD	MOJ	2.87E+01	3.16E+01	1.13E+02	1.19E-03	8.12E-03	2.30E-03	1.46E-02	1.44E-05	1.23E+00	2.08E-04	0.00E+00	3.76E-05	2.57E-04	7.29E-05	4.64E-04	4.57E-07	3.89E-02	6.58E-06	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	175	Light Commercial Equipment	San Bernardino	MD	MOJ	3.10E+00	3.42E+00	2.18E+01	1.28E-04	1.28E-03	2.95E-04	2.55E-03	2.69E-06	2.39E-01	2.66E-05	0.00E+00	3.74E-05	3.75E-04	8.63E-05	7.46E-04	7.88E-07	7.00E-02	7.79E-06	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	250	Light Commercial Equipment	San Bernardino	MD	MOJ	2.23E+00	2.46E+00	2.25E+01	7.53E-05	5.98E-04	1.98E-04	2.47E-03	2.79E-06	2.48E-01	1.78E-05	0.00E+00	3.06E-05	2.43E-04	8.02E-05	1.00E-03	1.13E-06	1.01E-01	7.24E-06	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	500	Light Commercial Equipment	San Bernardino	MD	MOJ	4.41E-02	4.86E-02	7.60E-01	2.37E-06	2.29E-05	5.99E-06	7.60E-05	8.23E-08	8.38E-03	5.40E-07	0.00E+00	4.88E-05	4.72E-04	1.23E-04	1.56E-03	1.69E-06	1.72E-01	1.11E-05	0.00E+00
2010	Annual	Mon-Sun	Pumps	D	750	Light Commercial Equipment	San Bernardino	MD	MOJ	7.35E-03	8.10E-03	2.10E-01	6.63E-07	6.32E-06	1.70E-06	2.15E-05	2.32E-08	2.31E-03	1.53E-07	0.00E+00	8.18E-05	7.80E-04	2.10E-04	2.65E-03	2.87E-06	2.85E-01	1.89E-05	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	50	Light Commercial Equipment	San Bernardino	MD	MOJ	6.88E+00	1.53E+01	1.60E+01	2.05E-04	2.17E-03	9.02E-04	1.83E-03	2.21E-06	1.71E-01	8.14E-05	0.00E+00	1.33E-05	1.42E-04	5.88E-05	1.20E-04	1.44E-07	1.11E-02	5.31E-06	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	120	Light Commercial Equipment	San Bernardino	MD	MOJ	4.58E+01	1.02E+02	2.20E+02	2.81E-03	1.71E-02	5.24E-03	3.07E-02	2.81E-05	2.40E+00	4.72E-04	0.00E+00	2.75E-05	1.68E-04	5.13E-05	3.01E-04	2.75E-07	2.35E-02	4.63E-06	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	175	Light Commercial Equipment	San Bernardino	MD	MOJ	1.73E+00	3.87E+00	1.56E+01	1.11E-04	9.89E-04	2.49E-04	1.96E-03	1.92E-06	1.71E-01	2.24E-05	0.00E+00	2.86E-05	2.56E-04	6.43E-05	5.08E-04	4.97E-07	4.42E-02	5.80E-06	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	250	Light Commercial Equipment	San Bernardino	MD	MOJ	2.44E+00	5.44E+00	3.24E+01	1.26E-04	9.31E-04	3.36E-04	3.83E-03	4.01E-06	3.57E-01	3.03E-05	0.00E+00	2.32E-05	1.71E-04	6.17E-05	7.04E-04	7.38E-07	6.56E-02	5.57E-06	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	500	Light Commercial Equipment	San Bernardino	MD	MOJ	3.18E+00	7.10E+00	7.46E+01	2.68E-04	2.41E-03	6.94E-04	7.88E-03	8.06E-06	8.21E-01	6.26E-05	0.00E+00	3.78E-05	3.40E-04	9.78E-05	1.11E-03	1.14E-06	1.16E-01	8.82E-06	0.00E+00
2010	Annual	Mon-Sun	Air Compressors	D	750	Light Commercial Equipment	San Bernardino	MD	MOJ	1.19E+00	2.65E+00	4.31E+01	1.57E-04	1.39E-03	4.08E-04	4.68E-03	4.78E-06	4.75E-01	3.68E-05	0.00E+00	5.92E-05	5.25E-04	1.54E-04	1.76E-03	1.80E-06	1.79E-01	1.39E-05	0.00E+00
2010	Annual	Mon-Sun	Welders	D	50	Light Commercial Equipment	San Bernardino	MD	MOJ	3.44E+01	6.05E+01	7.33E+01	8.76E-04	9.20E-03	3.76E-03	8.25E-03	1.01E-05	7.84E-01	3.40E-04	0.00E+00	1.45E-05	1.52E-04	6.22E-05	1.36E-04	1.68E-07	1.30E-02	5.62E-06	0.00E+00
2010	Annual	Mon-Sun	Welders	D	120	Light Commercial Equipment	San Bernardino	MD	MOJ	2.67E+01	4.70E+01	8.51E+01	1.02E-03	6.44E-03	1.92E-03	1.16E-02	1.09E-05	9.27E-01	1.73E-04	0.00E+00	2.16E-05	1.37E-04	4.08E-05	2.46E-04	2.31E-07	1.97E-02	3.68E-06	0.00E+00
2010	Annual	Mon-Sun	Welders	D	175	Light Commercial Equipment	San Bernardino	MD	MOJ	1.32E-01	2.33E-01	1.04E+00	6.91E-06	6.42E-05	1.57E-05	1.28E-04	1.28E-07	1.14E-02	1.41E-06	0.00E+00	2.97E-05	2.76E-04	6.73E-05	5.49E-04	5.52E-07	4.91E-02	6.07E-06	0.00E+00
2010	Annual	Mon-Sun	Welders	D	250	Light Commercial Equipment	San Bernardino	MD	MOJ	2.94E-02	5.17E-02	2.79E-01	1.04E-06	7.83E-06	2.74E-06	3.22E-05	3.46E-08	3.08E-03	2.47E-07	0.00E+00	2.01E-05	1.51E-04	5.30E-05	6.23E-04	6.69E-07	5.95E-02	4.78E-06	0.00E+00
2010	Annual	Mon-Sun	Welders	D	500	Light Commercial Equipment	San Bernardino	MD	MOJ	7.35E-02	1.29E-01	9.82E-01	3.38E-06	3.13E-05	8.63E-06	1.02E-04	1.06E-07	1.08E-02	7.79E-07	0.00E+00	2.61E-05	2.42E-04	6.68E-05	7.88E-04	8.22E-07	8.37E-02	6.02E-06	0.00E+00
2010	Annual	Mon-Sun	Pressure Washers	D	50	Light Commercial Equipment	San Bernardino	MD	MOJ	8.01E-01	3.18E-01	2.09E-01	1.84E-06	1.82E-05	6.64E-06	2.21E-05	2.93E-08	2.27E-03	5.99E-07	0.00E+00	5.79E-06	5.74E-05	2.09E-05	6.95E-05	9.23E-08	7.14E-03	1.89E-06	0.00E+00
2010	Annual	Mon-Sun	Pressure Washers	D	120	Light Commercial Equipment	San Bernardino	MD	MOJ	3.31E-01	1.31E-01	1.44E-01	1.28E-06	9.76E-06	2.57E-06	1.76E-05	1.85E-08	1.58E-03	2.32E-07	0.00E+00	9.72E-06	7.44E-05	1.96E-05	1.34E-04	1.41E-07	1.20E-02	1.77E-06	0.00E+00

Reference source 1: Table C.4, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009

Table C.4 Methane and Nitrous Oxide Emission Factors for Highway Vehicles by Model Year

Vehicle Types/Model Years	N_2O (g/mile)	CH_4 (g/mile)
Gasoline Passenger Cars		
Model Years 1984-1993	0.0647	0.0704
Model Year 1994	0.0560	0.0531
Model Year 1995	0.0473	0.0358
Model Year 1996	0.0426	0.0272
Model Year 1997	0.0422	0.0268
Model Year 1998	0.0393	0.0249
Model Year 1999	0.0337	0.0216
Model Year 2000	0.0273	0.0178
Model Year 2001	0.0158	0.0110
Model Year 2002	0.0153	0.0107
Model Year 2003	0.0135	0.0114
Model Year 2004	0.0083	0.0145
Model Year 2005 - Present	0.0079	0.0147
Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)		
Model Years 1987-1993	0.1035	0.0813
Model Year 1994	0.0982	0.0646
Model Year 1995	0.0908	0.0517
Model Year 1996	0.0871	0.0452
Model Year 1997	0.0871	0.0452
Model Year 1998	0.0728	0.0391
Model Year 1999	0.0564	0.0321
Model Year 2000	0.0621	0.0346
Model Year 2001	0.0164	0.0151
Model Year 2002	0.0228	0.0178
Model Year 2003	0.0114	0.0155
Model Year 2004	0.0132	0.0152
Model Year 2005 - Present	0.0101	0.0157

Table C.4 Methane and Nitrous Oxide Emission Factors for Highway Vehicles by Model Year (continued)

Vehicle Types/Model Years	N_2O (g/mile)	CH_4 (g/mile)
Gasoline Heavy-Duty Vehicles		
Model Years 1985-1986	0.0515	0.4090
Model Year 1987	0.0849	0.3675
Model Years 1988-1989	0.0933	0.3492
Model Years 1990-1995	0.1142	0.3246
Model Year 1996	0.1680	0.1278
Model Year 1997	0.1726	0.0924
Model Year 1998	0.1693	0.0641
Model Year 1999	0.1435	0.0578
Model Year 2000	0.1092	0.0493
Model Year 2001	0.1235	0.0528
Model Year 2002	0.1307	0.0546
Model Year 2003	0.1240	0.0533
Model Year 2004	0.0285	0.0341
Model Year 2005 - Present	0.0177	0.0326
Diesel Passenger Cars		
Model Years 1960-1982	0.0012	0.0006
Model Years 1983 - Present	0.0010	0.0005
Diesel Light Trucks		
Model Years 1960-1982	0.0017	0.0011
Model Years 1983-1995	0.0014	0.0009
Model Years 1996 - Present	0.0015	0.0010
Diesel Heavy-Duty Vehicles		
All Model Years	0.0048	0.0051

Source: Gasoline vehicle factors from EPA Climate Leaders, Mobile Combustion Guidance, (2008) based on U.S. EPA, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2005 (2007). Diesel vehicle factors based on U.S. EPA, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2005 (2007), Annex 3.2, Table A-98.

Reference source 2: Table C.6, California Climate Action Registry General Reporting Protocol Version 3.1, January 2009

Table C.6 Methane and Nitrous Oxide Emission Factors for Non-Highway Vehicles

Vehicle Type/Fuel Type	N_2O (g/gallon)	CH_4 (g/gallon)
Ships & Boats		
Residual Fuel Oil	0.30	0.86
Diesel Fuel	0.26	0.74
Gasoline	0.22	0.64
Locomotives		
Diesel Fuel	0.26	0.80
Agricultural Equipment		
Gasoline	0.22	1.26
Diesel Fuel	0.26	1.44
Construction		
Gasoline	0.22	0.50
Diesel Fuel	0.26	0.58
Other Non-Highway		
Snowmobiles (Gasoline)	0.22	0.50
Other Recreational (Gasoline)	0.22	0.50
Other Small Utility (Gasoline)	0.22	0.50
Other Large Utility (Gasoline)	0.22	0.50
Other Large Utility (Diesel)	0.26	0.58
Aircraft		
Jet Fuel	0.31	0.27
Aviation Gasoline	0.11	7.04
All Non-Highway/Construction Vehicles		
Butane*	0.41	0.09
Propane*	0.41	0.09

Source: U.S. EPA, Climate Leaders, Mobile Combustion Guidance (2008) based on U.S. EPA Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2005 (2007), Annex 3.2, Table A-101, except butane and propane.
* Butane and propane emission factors based on stationary combustion emission factors for these fuels from U.S. EPA, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2000 (2002).

Reference source 3: Tier 2/Bin 3 Federal emissions standard.

Summary of Current and Historical Light-Duty Vehicle Emission Standards

US EPA Federal Light-Duty Vehicle Emission Standards for Air Pollutants

Tier 2 Program

Standard	Model Year	Vehicles	Emission Limits at Full Useful Life (100,000-120,000 miles) Maximum Allowed Grams per Mile					Air Pollution Score
			NOx	NMOG	CO	PM	HCHO	
Bin 1	2004+	LDV, LLDT, HLDT, MDPV	0.00	0.000	0.0	0.0	0.0	10
Bin 2	2004+	LDV, LLDT, HLDT, MDPV	0.02	0.010	2.1	0.01	0.004	9
Bin 3	2004+	LDV, LLDT, HLDT, MDPV	0.03	0.055	2.1	0.01	0.011	8
Bin 4	2004+	LDV, LLDT, HLDT, MDPV	0.04	0.070	2.1	0.01	0.011	7
Bin 5	2004+	LDV, LLDT, HLDT, MDPV	0.07	0.090	4.2	0.01	0.018	6
Bin 6	2004+	LDV, LLDT, HLDT, MDPV	0.10	0.090	4.2	0.01	0.018	5
Bin 7	2004+	LDV, LLDT, HLDT, MDPV	0.15	0.090	4.2	0.02	0.018	4
Bin 8a	2004+	LDV, LLDT, HLDT, MDPV	0.20	0.125	4.2	0.02	0.018	3
Bin 8b	2004-2008	HLDT, MDPV	0.20	0.156	4.2	0.02	0.018	3
Bin 9a	2004-2006	LDV, LLDT	0.30	0.090	4.2	0.06	0.018	2
Bin 9b	2004-2006	LDT2	0.30	0.130	4.2	0.06	0.018	2
Bin 9c	2004-2008	HLDT, MDPV	0.30	0.180	4.2	0.06	0.018	2
Bin 10a	2004-2006	LDV, LLDT	0.60	0.156	4.2	0.08	0.018	1
Bin 10b	2004-2008	HLDT, MDPV	0.60	0.230	6.4	0.08	0.027	1
Bin 10c	2004-2008	LDT4, MDPV	0.60	0.280	6.4	0.08	0.027	1
Bin 11	2004-2008	MDPV	0.90	0.280	7.3	0.12	0.032	0

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
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APPLICATION FOR CERTIFICATION
For the CALICO SOLAR (Formerly SES Solar One)

Docket No. 08-AFC-13

PROOF OF SERVICE
(Revised 6/14/10)

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DECLARATION OF SERVICE

I, Darin Neufeld, declare that on August 4, 2010, I served and filed copies of the attached Applicant's Submittal of Additional Air Quality Analysis Discussed at the August 4, 2010 Hearing. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:
[www.energy.ca.gov/sitingcases/solarone].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

FOR SERVICE TO ALL OTHER PARTIES:

_X_ sent electronically to all email addresses on the Proof of Service list;

____ by personal delivery;

_X_ by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses NOT marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

_X_ sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (***preferred method***);

OR

____ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 08-AFC-13
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

Original Signed By
Darin Neufeld

*indicates change