

APPENDIX R

UREMBIS REPORT

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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Project Name: Point Molate - Alt A Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	3.55	61.63	18.37	0.06	19.71	2.13	21.84	4.14	1.96	6.10	7,121.21
2009 TOTALS (tons/year mitigated)	3.55	61.22	18.37	0.06	1.67	2.00	3.67	0.38	1.84	2.22	7,121.21
Percent Reduction	0.00	0.66	0.00	0.00	91.53	5.97	83.20	90.89	5.97	63.66	0.00
2010 TOTALS (tons/year unmitigated)	3.67	57.30	21.61	0.07	30.82	1.99	32.81	6.47	1.83	8.30	7,608.45
2010 TOTALS (tons/year mitigated)	3.67	56.77	21.61	0.07	2.39	1.83	4.23	0.53	1.69	2.22	7,608.45
Percent Reduction	0.00	0.92	0.00	0.00	92.24	7.95	87.12	91.79	7.96	73.27	0.00
2011 TOTALS (tons/year unmitigated)	9.13	6.60	17.08	0.02	0.10	0.32	0.43	0.04	0.30	0.33	2,245.49
2011 TOTALS (tons/year mitigated)	5.81	6.60	17.08	0.02	0.10	0.32	0.43	0.04	0.30	0.33	2,245.49
Percent Reduction	36.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012 TOTALS (tons/year unmitigated)	4.79	2.43	4.56	0.01	0.03	0.15	0.18	0.01	0.14	0.15	654.74
2012 TOTALS (tons/year mitigated)	1.83	2.31	4.56	0.01	0.03	0.09	0.12	0.01	0.08	0.09	654.74
Percent Reduction	61.74	4.97	0.00	0.00	0.00	40.50	34.34	0.00	40.76	38.10	0.00

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	1.47	2.53	2.84	0.00	0.00	0.00	3,029.89
TOTALS (tons/year, mitigated)	1.31	2.03	2.42	0.00	0.00	0.00	2,424.16
Percent Reduction	10.88	19.76	14.79	NaN	NaN	NaN	19.99

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	37.82	58.93	428.63	0.44	94.41	17.96	45,741.52
TOTALS (tons/year, mitigated)	36.99	57.50	418.20	0.44	92.11	17.51	44,628.50
Percent Reduction	2.19	2.43	2.43	0.00	2.44	2.45	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	39.29	61.46	431.47	0.44	94.41	17.96	48,771.41
TOTALS (tons/year, mitigated)	38.30	59.53	420.62	0.44	92.11	17.51	47,052.66
Percent Reduction	2.52	3.14	2.51	0.00	2.44	2.45	3.52

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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Project Name: Point Molate - Alt A Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOX	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (lbs/day unmitigated)	53.01	927.00	274.60	0.97	297.45	31.83	329.29	62.56	29.28	91.84	107,280.19
2009 TOTALS (lbs/day mitigated)	53.01	921.65	274.60	0.97	24.12	30.20	54.32	5.47	27.78	33.26	107,280.19
2010 TOTALS (lbs/day unmitigated)	49.33	839.56	251.86	0.97	297.45	28.46	325.91	62.56	26.18	88.74	107,280.15
2010 TOTALS (lbs/day mitigated)	49.33	834.51	251.86	0.97	24.12	26.93	51.06	5.47	24.78	30.25	107,280.15
2011 TOTALS (lbs/day unmitigated)	74.66	42.16	109.38	0.12	0.66	2.07	2.73	0.23	1.89	2.12	14,371.21
2011 TOTALS (lbs/day mitigated)	46.57	42.16	109.38	0.12	0.66	2.07	2.73	0.23	1.89	2.12	14,371.21
2012 TOTALS (lbs/day unmitigated)	77.13	56.29	112.63	0.13	0.68	3.35	4.02	0.24	3.06	3.30	16,135.49
2012 TOTALS (lbs/day mitigated)	31.60	53.97	112.63	0.13	0.68	2.18	2.86	0.24	1.99	2.23	16,135.49

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	8.38	13.92	19.64	0.00	0.04	0.04	16,609.10
TOTALS (lbs/day, mitigated)	7.50	11.15	17.31	0.00	0.04	0.04	13,290.03
Percent Reduction	10.50	19.90	11.86	NAN	0.00	0.00	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	196.76	301.00	2,261.28	2.47	517.32	98.32	251,871.59
TOTALS (lbs/day, mitigated)	192.55	293.70	2,206.25	2.40	504.74	95.92	245,742.72
Percent Reduction	2.14	2.43	2.43	2.83	2.43	2.44	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	205.14	314.92	2,280.92	2.47	517.36	98.36	268,480.69
TOTALS (lbs/day, mitigated)	200.05	304.85	2,223.56	2.40	504.78	95.96	259,032.75
Percent Reduction	2.48	3.20	2.51	2.83	2.43	2.44	3.52

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 6/1/2009-6/30/2009	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
Active Days: 26											
Demolition 06/01/2009-	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
06/30/2009											
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	27.30	15.70	0.00	0.00	1.74	1.74	0.00	1.60	1.60	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009	<u>53.01</u>	<u>927.00</u>	<u>274.60</u>	<u>0.97</u>	<u>297.45</u>	<u>31.83</u>	<u>329.29</u>	<u>62.56</u>	<u>29.28</u>	<u>91.84</u>	<u>107,280.19</u>
Active Days: 132											
Mass Grading 07/01/2009-	53.01	927.00	274.60	0.97	297.45	31.83	329.29	62.56	29.28	91.84	107,280.19
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	293.80	0.00	293.80	61.36	0.00	61.36	0.00
Mass Grading Off Road Diesel	4.42	35.65	18.16	0.00	0.00	1.92	1.92	0.00	1.77	1.77	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010	<u>49.33</u>	<u>839.56</u>	<u>251.86</u>	<u>0.97</u>	<u>297.45</u>	<u>28.46</u>	<u>325.91</u>	<u>62.56</u>	<u>26.18</u>	<u>88.74</u>	<u>107,280.15</u>
Active Days: 129											
Mass Grading 07/01/2009-	49.33	839.56	251.86	0.97	297.45	28.46	325.91	62.56	26.18	88.74	107,280.15
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	293.80	0.00	293.80	61.36	0.00	61.36	0.00
Mass Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	33.79	19.05	0.00	293.81	1.80	295.61	61.36	1.65	63.01	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	33.79	19.05	0.00	293.81	1.80	295.61	61.36	1.65	63.01	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	293.80	0.00	293.80	61.36	0.00	61.36	0.00
Fine Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	8.22	45.89	116.77	0.12	0.65	2.20	2.85	0.23	2.01	2.24	14,280.72
Building 10/01/2010-03/31/2012	8.22	45.89	116.77	0.12	0.65	2.20	2.85	0.23	2.01	2.24	14,280.72
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	1.33	20.82	13.17	0.03	0.14	0.70	0.84	0.05	0.65	0.69	3,609.22
Building Worker Trips	3.10	7.30	91.86	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,925.17
Time Slice 1/1/2011-3/30/2011 Active Days: 76	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building 10/01/2010-03/31/2012	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	1.23	18.65	12.30	0.03	0.14	0.63	0.77	0.05	0.58	0.63	3,609.31
Building Worker Trips	2.82	6.63	84.83	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,920.62

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Time Slice 3/31/2011-12/31/2011	74.66	42.16	109.38	0.12	0.66	2.07	2.73	0.23	1.89	2.12	14,371.21
Active Days: 237											
Building 10/01/2010-03/31/2012	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	1.23	18.65	12.30	0.03	0.14	0.63	0.77	0.05	0.58	0.63	3,609.31
Building Worker Trips	2.82	6.63	84.83	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,920.62
Coating 03/31/2011-05/31/2012	67.10	0.07	0.90	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.95
Architectural Coating	67.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.07	0.90	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.95
Time Slice 1/2/2012-1/31/2012	74.04	38.59	101.50	0.12	0.66	1.90	2.56	0.23	1.73	1.96	14,367.48
Active Days: 26											
Building 10/01/2010-03/31/2012	6.94	38.53	100.67	0.12	0.65	1.90	2.55	0.23	1.73	1.96	14,272.57
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	1.13	16.63	11.47	0.03	0.14	0.57	0.71	0.05	0.52	0.57	3,609.40
Building Worker Trips	2.55	6.03	78.20	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,916.84
Coating 03/31/2011-05/31/2012	67.10	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	67.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91

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Time Slice 2/1/2012-3/31/2012	<u>77.13</u>	<u>56.29</u>	<u>112.63</u>	<u>0.13</u>	<u>0.68</u>	<u>3.35</u>	<u>4.02</u>	<u>0.24</u>	<u>3.06</u>	<u>3.30</u>	<u>16,135.49</u>
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.09	17.70	11.13	0.00	0.02	1.44	1.46	0.01	1.33	1.33	1,768.01
Paving Off-Gas	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.13	2.12	0.63	0.00	0.01	0.07	0.08	0.00	0.06	0.07	344.05
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	67.10	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	67.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Time Slice 4/2/2012-5/31/2012	70.19	17.76	11.96	0.01	0.03	1.44	1.47	0.01	1.33	1.34	1,862.92
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.09	17.70	11.13	0.00	0.02	1.44	1.46	0.01	1.33	1.33	1,768.01
Paving Off-Gas	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.13	2.12	0.63	0.00	0.01	0.07	0.08	0.00	0.06	0.07	344.05
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	67.10	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	67.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

Building Volume Total (cubic feet): 398224.8

Building Volume Daily (cubic feet): 14000

On Road Truck Travel (VMT): 194.44

Off-Road Equipment:

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 58.76

Maximum Daily Acreage Disturbed: 14.69

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Tractors/loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

Total Acres Disturbed: 58.76

Maximum Daily Acreage Disturbed: 14.69

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 25862.07

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

Acres to be Paved: 14.69

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/1/2010 - 3/31/2012 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG NOx CO SO2 PM10 Dust PM10 Exhaust PM10 PM2.5 Dust PM2.5 Exhaust PM2.5 CO2

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Time Slice 6/1/2009-6/30/2009 Active Days: 26	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Demo/On 06/01/2009- 06/30/2009	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	23.20	15.70	0.00	0.00	0.26	0.26	0.00	0.24	0.24	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009 Active Days: 132	<u>53.01</u>	<u>921.65</u>	<u>274.60</u>	<u>0.97</u>	<u>24.12</u>	<u>30.20</u>	<u>54.32</u>	<u>5.47</u>	<u>27.78</u>	<u>33.26</u>	<u>107,280.19</u>
Mass Grading 07/01/2009- 06/30/2010	53.01	921.65	274.60	0.97	24.12	30.20	54.32	5.47	27.78	33.26	107,280.19
Mass Grading Dust	0.00	0.00	0.00	0.00	20.47	0.00	20.47	4.27	0.00	4.27	0.00
Mass Grading Off Road Diesel	4.42	30.30	18.16	0.00	0.00	0.29	0.29	0.00	0.27	0.27	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010 Active Days: 129	<u>49.33</u>	<u>834.51</u>	<u>251.86</u>	<u>0.97</u>	<u>24.12</u>	<u>26.93</u>	<u>51.06</u>	<u>5.47</u>	<u>24.78</u>	<u>30.25</u>	<u>107,280.15</u>
Mass Grading 07/01/2009- 06/30/2010	49.33	834.51	251.86	0.97	24.12	26.93	51.06	5.47	24.78	30.25	107,280.15
Mass Grading Dust	0.00	0.00	0.00	0.00	20.47	0.00	20.47	4.27	0.00	4.27	0.00
Mass Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	28.74	19.05	0.00	20.48	0.27	20.75	4.28	0.25	4.53	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	28.74	19.05	0.00	20.48	0.27	20.75	4.28	0.25	4.53	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	20.47	0.00	20.47	4.27	0.00	4.27	0.00
Fine Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	8.22	45.89	116.77	0.12	0.65	2.20	2.85	0.23	2.01	2.24	14,280.72
Building 10/01/2010-03/31/2012	8.22	45.89	116.77	0.12	0.65	2.20	2.85	0.23	2.01	2.24	14,280.72
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	1.33	20.82	13.17	0.03	0.14	0.70	0.84	0.05	0.65	0.69	3,609.22
Building Worker Trips	3.10	7.30	91.86	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,925.17
Time Slice 1/1/2011-3/30/2011 Active Days: 76	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building 10/01/2010-03/31/2012	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	1.23	18.65	12.30	0.03	0.14	0.63	0.77	0.05	0.58	0.63	3,609.31
Building Worker Trips	2.82	6.63	84.83	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,920.62

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Time Slice 3/31/2011-12/31/2011 Active Days: 237	46.57	42.16	109.38	0.12	0.66	2.07	2.73	0.23	1.89	2.12	14,371.21
Building 10/01/2010-03/31/2012	7.56	42.09	108.48	0.12	0.65	2.07	2.72	0.23	1.89	2.12	14,276.26
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	1.23	18.65	12.30	0.03	0.14	0.63	0.77	0.05	0.58	0.63	3,609.31
Building Worker Trips	2.82	6.63	84.83	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,920.62
Coating 03/31/2011-05/31/2012	39.01	0.07	0.90	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.95
Architectural Coating	38.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.07	0.90	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.95
Time Slice 1/2/2012-1/31/2012 Active Days: 26	28.51	38.59	101.50	0.12	0.66	1.90	2.56	0.23	1.73	1.96	14,367.48
Building 10/01/2010-03/31/2012	6.94	38.53	100.67	0.12	0.65	1.90	2.55	0.23	1.73	1.96	14,272.57
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	1.13	16.63	11.47	0.03	0.14	0.57	0.71	0.05	0.52	0.57	3,609.40
Building Worker Trips	2.55	6.03	78.20	0.09	0.51	0.25	0.76	0.18	0.21	0.40	8,916.84
Coating 03/31/2011-05/31/2012	21.57	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	21.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91

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Time Slice 2/1/2012-3/31/2012	31.60	53.97	112.63	0.13	0.68	2.18	2.86	0.24	1.99	2.23	16,135.49
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.09	15.38	11.13	0.00	0.02	0.28	0.30	0.01	0.26	0.26	1,768.01
Paving Off-Gas	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.13	2.12	0.63	0.00	0.01	0.07	0.08	0.00	0.06	0.07	344.05
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	21.57	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	21.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Time Slice 4/2/2012-5/31/2012	24.67	15.44	11.96	0.01	0.03	0.28	0.31	0.01	0.26	0.27	1,862.92
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.09	15.38	11.13	0.00	0.02	0.28	0.30	0.01	0.26	0.26	1,768.01
Paving Off-Gas	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.13	2.12	0.63	0.00	0.01	0.07	0.08	0.00	0.06	0.07	344.05
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	21.57	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91
Architectural Coating	21.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.00	94.91

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.00	13.83	11.62	0.00	0.02	0.02	16,595.36
Heath - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	6.73						
TOTALS (lbs/day, unmitigated)	8.38	13.92	19.64	0.00	0.04	0.04	16,609.10

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.80	11.06	9.29	0.00	0.02	0.02	13,276.29
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	6.05						
TOTALS (lbs/day, mitigated)	7.50	11.15	17.31	0.00	0.04	0.04	13,290.03

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Residential Increase Energy Efficiency Beyond Title 24	20.00
Commercial Increase Energy Efficiency Beyond Title 24	20.00
Percent of Residential Landscape Equipment that are Electrically Powered and have Electrical Outlets at the the Front and Rear of Residences	20.00
For Nonresidential Interior Use Low VOC Coating	10.00
For Nonresidential Exterior Use Low VOC Coating	10.00

Area Source Changes to Defaults

- Percentage of residences with wood stoves changed from 35% to 0%
- Percentage of residences with wood fireplaces changed from 10% to 0%
- Percentage of residences with natural gas fireplaces changed from 55% to 50%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated									
Source	ROG	NOX	CO	SO2	PM10	PM25	CO2		
Hotel	29.55	41.45	311.55	0.34	71.22	13.54	34,682.12		
Strip mall	41.20	69.20	519.29	0.57	118.96	22.61	57,902.51		
General office building	0.72	1.17	8.98	0.01	2.01	0.38	983.54		
Casino	82.69	141.55	1,064.03	1.16	243.25	46.23	118,448.45		
Entertainment	42.60	47.63	357.43	0.39	81.88	15.56	39,854.97		
TOTALS (lbs/day, unmitigated)	196.76	301.00	2,261.28	2.47	517.32	98.32	251,871.59		

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated									
Source	ROG	NOX	CO	SO2	PM10	PM25	CO2		
Hotel	28.97	40.44	303.97	0.33	69.49	13.21	33,838.18		
Strip mall	40.24	67.52	506.65	0.55	116.07	22.06	56,493.55		
General office building	0.70	1.15	8.76	0.01	1.96	0.37	959.61		
Casino	80.71	138.11	1,038.14	1.13	237.33	45.10	115,566.21		
Entertainment	41.93	46.48	348.73	0.38	79.89	15.18	38,885.17		
TOTALS (lbs/day, mitigated)	192.55	293.70	2,206.25	2.40	504.74	95.92	245,742.72		

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Nonresidential Mitigation Measures

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 6

The Number of Dedicated Daily Shuttle Trips is 4

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2012 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel	2.45	rooms	1,129.00	2,766.05	41,490.75	
Strip mall	15.40	1000 sq ft	300.00	4,620.00	69,300.00	
General office building	11.00	1000 sq ft	7.10	78.10	1,171.50	

Summary of Land Uses

Land Use Type	Acreeage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Casino		34.04	1000 sq ft	277.52	9,446.78	141,701.71
Entertainment		1.06	unknown	3,000.00	3,180.00	47,700.00
					20,090.93	301,363.96

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.8	0.7	99.1	0.2
Light Truck < 3750 lbs	12.8	1.6	95.3	3.1
Light Truck 3751-5750 lbs	19.8	0.5	99.5	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.4	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.2	59.4	40.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential:	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Hotel	5.0	2.5	92.5
Strip mall	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Casino	5.0	2.5	92.5
Entertainment	2.0	1.0	97.0

Operational Changes to Defaults

- Ambient summer temperature changed from 85 degrees F to 70 degrees F
- Ambient winter temperature changed from 40 degrees F to 50 degrees F
- Home-based work urban trip length changed from 10.8 miles to 15 miles
- Home-based shop urban trip length changed from 7.3 miles to 15 miles
- Home-based other urban trip length changed from 7.5 miles to 15 miles
- Commercial-based commute urban trip length changed from 9.5 miles to 15 miles
- Commercial-based non-work urban trip length changed from 7.35 miles to 15 miles
- Commercial-based customer urban trip length changed from 7.35 miles to 15 miles

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt A Cumulative Operation.urb924

Project Name: Point Molate - Alt A Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	1.47	2.53	2.84	0.00	0.00	0.00	3,029.89
TOTALS (tons/year, mitigated)	1.31	2.03	2.42	0.00	0.00	0.00	2,424.16
Percent Reduction	10.88	19.76	14.79	NaN	NaN	NaN	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	18.78	22.06	187.05	0.44	94.14	17.70	45,373.41
TOTALS (tons/year, mitigated)	18.36	21.52	182.49	0.43	91.86	17.27	44,269.34
Percent Reduction	2.24	2.45	2.44	2.27	2.42	2.43	2.43

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	20.25	24.59	189.89	0.44	94.14	17.70	48,403.30
TOTALS (tons/year, mitigated)	19.67	23.55	184.91	0.43	91.86	17.27	46,693.50
Percent Reduction	2.86	4.23	2.62	2.27	2.42	2.43	3.53

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equin\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt A Cumulative Operation.urb924

Project Name: Point Molate - Alt A Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

12/29/2008 10:06:23 AM

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	8.38	13.92	19.64	0.00	0.04	0.04	16,609.10
TOTALS (lbs/day, mitigated)	7.50	11.15	17.31	0.00	0.04	0.04	13,290.03
Percent Reduction	10.50	19.90	11.86	NAN	0.00	0.00	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	99.39	112.65	996.73	2.45	515.82	96.99	249,893.98
TOTALS (lbs/day, mitigated)	97.32	109.90	972.49	2.39	503.28	94.64	243,813.23
Percent Reduction	2.08	2.44	2.43	2.45	2.43	2.42	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	107.77	126.57	1,016.37	2.45	515.86	97.03	266,503.08
TOTALS (lbs/day, mitigated)	104.82	121.05	989.80	2.39	503.32	94.68	257,103.26
Percent Reduction	2.74	4.36	2.61	2.45	2.43	2.42	3.53

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.00	13.83	11.62	0.00	0.02	0.02	16,595.36
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	6.73						
TOTALS (lbs/day, unmitigated)	8.38	13.92	19.64	0.00	0.04	0.04	16,609.10

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.80	11.06	9.29	0.00	0.02	0.02	13,276.29
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	6.05						
TOTALS (lbs/day, mitigated)	7.50	11.15	17.31	0.00	0.04	0.04	13,290.03

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 50%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated									
Source	ROG	NOX	CO	SO2	PM10	PM25	CO2		
Hotel	15.18	15.51	137.32	0.34	71.02	13.35	34,409.81		
Strip mall	20.40	25.90	228.91	0.56	118.61	22.30	57,447.87		
General office building	0.36	0.44	3.95	0.01	2.01	0.38	975.82		
Casino	40.73	52.97	468.99	1.15	242.54	45.61	117,518.44		
Entertainment	22.72	17.83	157.56	0.39	81.64	15.35	39,542.04		
TOTALS (lbs/day, unmitigated)	99.39	112.65	996.73	2.45	515.82	96.99	249,893.98		

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated									
Source	ROG	NOX	CO	SO2	PM10	PM25	CO2		
Hotel	14.89	15.13	133.98	0.33	69.29	13.03	33,572.50		
Strip mall	19.93	25.27	223.34	0.55	115.73	21.76	56,049.97		
General office building	0.35	0.43	3.86	0.01	1.96	0.37	952.08		
Casino	39.76	51.68	457.58	1.12	236.64	44.50	114,658.83		
Entertainment	22.39	17.39	153.73	0.38	79.66	14.98	38,579.85		
TOTALS (lbs/day, mitigated)	97.32	109.90	972.49	2.39	503.28	94.64	243,813.23		

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 70 Season: Summer

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel		2.45	rooms	1,129.00	2,766.05	41,490.75
Strip mall		15.40	1000 sq ft	300.00	4,620.00	69,300.00
General office building		11.00	1000 sq ft	7.10	78.10	1,171.50
Casino		34.04	1000 sq ft	277.52	9,446.78	141,701.71
Entertainment		1.06	unknown	3,000.00	3,180.00	47,700.00
					20,090.93	301,363.96

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.0	0.0	100.0	0.0
Light Truck < 3750 lbs	12.6	0.0	99.2	0.8
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.3	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.2	34.4	65.6	0.0
School Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Hotel	5.0	2.5	92.5
Strip mall	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Casino	5.0	2.5	92.5
Entertainment	2.0	1.0	97.0

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt B Construction and Operation.urb924

Project Name: Point Molate - Alt B Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10_Dust</u>	<u>PM10_Exhaust</u>	<u>PM10</u>	<u>PM2.5_Dust</u>	<u>PM2.5_Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	3.55	61.63	18.37	0.06	26.41	2.13	28.54	5.55	1.96	7.50	7,121.21
2009 TOTALS (tons/year mitigated)	3.55	61.22	18.37	0.06	2.14	2.00	4.14	0.47	1.84	2.31	7,121.21
Percent Reduction	0.00	0.66	0.00	0.00	91.91	5.97	85.51	91.43	5.97	69.15	0.00
2010 TOTALS (tons/year unmitigated)	3.75	57.97	23.17	0.07	41.39	2.02	43.41	8.68	1.85	10.53	7,823.67
2010 TOTALS (tons/year mitigated)	3.75	57.45	23.17	0.07	3.14	1.86	5.00	0.69	1.71	2.40	7,823.67
Percent Reduction	0.00	0.91	0.00	0.00	92.42	7.86	88.49	92.06	7.87	77.24	0.00
2011 TOTALS (tons/year unmitigated)	12.13	8.99	22.82	0.03	0.14	0.41	0.55	0.05	0.37	0.42	3,101.83
2011 TOTALS (tons/year mitigated)	7.66	8.99	22.82	0.03	0.14	0.41	0.55	0.05	0.37	0.42	3,101.83
Percent Reduction	36.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012 TOTALS (tons/year unmitigated)	6.35	3.00	5.90	0.01	0.04	0.17	0.21	0.01	0.15	0.17	875.43
2012 TOTALS (tons/year mitigated)	2.38	2.88	5.90	0.01	0.04	0.11	0.15	0.01	0.10	0.11	875.43
Percent Reduction	62.46	4.02	0.00	0.00	0.00	35.72	29.24	0.00	35.98	33.13	0.00
AREA SOURCE EMISSION ESTIMATES											
TOTALS (tons/year, unmitigated)	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>			
TOTALS (tons/year, mitigated)	5.00	3.32	3.32	3.32	0.00	0.01	0.01	4,028.91			
Percent Reduction	4.82	2.65	2.83	2.83	0.00	0.00	0.00	3,223.55			
Percent Reduction	3.60	20.18	14.76	Nan	100.00	100.00	100.00	19.99			

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	40.49	61.43	449.04	0.46	97.98	18.62	47,534.91
TOTALS (tons/year, mitigated)	39.38	59.55	435.40	0.45	95.01	18.07	46,091.64
Percent Reduction	2.74	3.06	3.04	2.17	3.03	2.95	3.04

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	45.49	64.75	452.36	0.46	97.99	18.63	51,563.82
TOTALS (tons/year, mitigated)	44.20	62.20	438.23	0.45	95.01	18.07	49,315.19
Percent Reduction	2.84	3.94	3.12	2.17	3.04	3.01	4.36

Urbemis 2007 Version 9.2.4
 Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt B Construction and Operation.urb924

Project Name: Point Molate - Alt B Construction and Operation
 Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
 Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (lbs/day unmitigated)	53.01	927.00	274.60	0.97	399.05	31.83	430.89	83.78	29.28	113.06	107,280.19
2009 TOTALS (lbs/day mitigated)	53.01	921.65	274.60	0.97	31.20	30.20	61.40	6.95	27.78	34.74	107,280.19
2010 TOTALS (lbs/day unmitigated)	49.33	839.56	251.86	0.97	399.05	28.46	427.51	83.78	26.18	109.96	107,280.15
2010 TOTALS (lbs/day mitigated)	49.33	834.51	251.86	0.97	31.20	26.93	58.14	6.95	24.78	31.73	107,280.15
2011 TOTALS (lbs/day unmitigated)	99.34	57.48	146.13	0.18	0.92	2.60	3.52	0.33	2.36	2.69	19,850.93
2011 TOTALS (lbs/day mitigated)	61.67	57.48	146.13	0.18	0.92	2.60	3.52	0.33	2.36	2.69	19,850.93
2012 TOTALS (lbs/day unmitigated)	101.82	70.72	146.80	0.18	0.95	3.85	4.80	0.34	3.51	3.85	21,732.96
2012 TOTALS (lbs/day mitigated)	40.77	68.40	146.80	0.18	0.95	2.69	3.64	0.34	2.44	2.78	21,732.96

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AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	27.76	18.22	23.06	0.00	0.06	0.06	22,081.33
TOTALS (lbs/day, mitigated)	26.83	14.60	20.38	0.00	0.06	0.06	17,668.36
Percent Reduction	3.35	19.87	11.62	NaN	0.00	0.00	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	210.44	313.73	2,367.96	2.57	536.85	102.06	261,744.80
TOTALS (lbs/day, mitigated)	204.84	304.22	2,295.95	2.49	520.56	98.97	253,797.61
Percent Reduction	2.66	3.03	3.04	3.11	3.03	3.03	3.04

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	238.20	331.95	2,391.02	2.57	536.91	102.12	283,826.13
TOTALS (lbs/day, mitigated)	231.67	318.82	2,316.33	2.49	520.62	99.03	271,465.97
Percent Reduction	2.74	3.96	3.12	3.11	3.03	3.03	4.35

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 6/1/2009-6/30/2009 Active Days: 26	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
Demolition 06/01/2009- 06/30/2009	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	27.30	15.70	0.00	0.00	1.74	1.74	0.00	1.60	1.60	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.36	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009 Active Days: 132	<u>53.01</u>	<u>927.00</u>	<u>274.60</u>	<u>0.97</u>	<u>399.05</u>	<u>31.83</u>	<u>430.89</u>	<u>83.78</u>	<u>29.28</u>	<u>113.06</u>	<u>107,280.19</u>
Mass Grading 07/01/2009- 06/30/2010	53.01	927.00	274.60	0.97	399.05	31.83	430.89	83.78	29.28	113.06	107,280.19
Mass Grading Dust	0.00	0.00	0.00	0.00	395.40	0.00	395.40	82.58	0.00	82.58	0.00
Mass Grading Off Road Diesel	4.42	35.65	18.16	0.00	0.00	1.92	1.92	0.00	1.77	1.77	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010 Active Days: 129	<u>49.33</u>	<u>839.56</u>	<u>251.86</u>	<u>0.97</u>	<u>399.05</u>	<u>28.46</u>	<u>427.51</u>	<u>83.78</u>	<u>26.18</u>	<u>109.96</u>	<u>107,280.15</u>
Mass Grading 07/01/2009- 06/30/2010	49.33	839.56	251.86	0.97	399.05	28.46	427.51	83.78	26.18	109.96	107,280.15
Mass Grading Dust	0.00	0.00	0.00	0.00	395.40	0.00	395.40	82.58	0.00	82.58	0.00
Mass Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010	4.22	33.79	19.05	0.00	395.41	1.80	397.21	82.58	1.65	84.23	3,159.18
Active Days: 79											
Fine Grading 07/01/2010-09/30/2010	4.22	33.79	19.05	0.00	395.41	1.80	397.21	82.58	1.65	84.23	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	395.40	0.00	395.40	82.58	0.00	82.58	0.00
Fine Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010	10.18	62.94	156.15	0.18	0.92	2.78	3.70	0.33	2.53	2.86	19,729.53
Active Days: 79											
Building 10/01/2010-03/31/2012	10.18	62.94	156.15	0.18	0.92	2.78	3.70	0.33	2.53	2.86	19,729.53
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	2.25	35.42	21.83	0.06	0.23	1.20	1.43	0.08	1.10	1.18	6,073.73
Building Worker Trips	4.14	9.74	122.58	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,909.47
Time Slice 1/1/2011-3/30/2011	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Active Days: 76											
Building 10/01/2010-03/31/2012	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.08	31.73	20.38	0.06	0.23	1.07	1.31	0.08	0.98	1.06	6,073.88
Building Worker Trips	3.76	8.84	113.19	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,903.39

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Time Slice 3/31/2011-1/231/2011	99.34	57.48	146.13	0.18	0.92	2.60	3.52	0.33	2.36	2.69	19,850.93
Active Days: 237											
Building 10/01/2010-03/31/2012	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.08	31.73	20.38	0.06	0.23	1.07	1.31	0.08	0.98	1.06	6,073.88
Building Worker Trips	3.76	8.84	113.19	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,903.39
Coating 03/31/2011-05/31/2012	89.99	0.09	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.33
Architectural Coating	89.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.33
Time Slice 1/22/2012-1/31/2012	98.56	52.29	135.46	0.18	0.92	2.39	3.31	0.33	2.17	2.49	19,845.97
Active Days: 26											
Building 10/01/2010-03/31/2012	8.57	52.20	134.34	0.18	0.92	2.38	3.30	0.33	2.16	2.49	19,718.70
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	1.92	28.29	19.00	0.06	0.23	0.96	1.19	0.08	0.88	0.96	6,074.01
Building Worker Trips	3.40	8.05	104.35	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,898.36
Coating 03/31/2011-05/31/2012	89.98	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	89.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27

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Time Slice 2/1/2012-3/31/2012	<u>101.82</u>	<u>70.72</u>	<u>148.80</u>	<u>0.18</u>	<u>0.95</u>	<u>3.85</u>	<u>4.80</u>	<u>0.34</u>	<u>3.51</u>	<u>3.85</u>	<u>21,732.96</u>
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.27	18.43	11.35	0.01	0.02	1.47	1.49	0.01	1.35	1.36	1,886.99
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.17	2.85	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	463.02
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	89.98	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	89.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Time Slice 4/2/2012-5/31/2012	93.25	18.52	12.46	0.01	0.03	1.47	1.50	0.01	1.35	1.36	2,014.26
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.27	18.43	11.35	0.01	0.02	1.47	1.49	0.01	1.35	1.36	1,886.99
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.17	2.85	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	463.02
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	89.98	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	89.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27

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Phase Assumptions

Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

Building Volume Total (cubic feet): 398224.8

Building Volume Daily (cubic feet): 14000

On Road Truck Travel (VMT): 194.44

Off-Road Equipment:

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 79.09

Maximum Daily Acreage Disturbed: 19.77

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

Total Acres Disturbed: 79.09

Maximum Daily Acreage Disturbed: 19.77

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 25862.07

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

Acres to be Paved: 19.77

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/1/2010 - 3/31/2012 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG NOx CO SO2 PM10 Dust PM10 Exhaust PM10 PM2.5 Dust PM2.5 Exhaust PM2.5 CO2

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Time Slice 6/1/2009-6/30/2009 Active Days: 26	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Demolition 06/01/2009- 06/30/2009	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	23.20	15.70	0.00	0.00	0.26	0.26	0.00	0.24	0.24	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009 Active Days: 132	<u>53.01</u>	<u>921.65</u>	<u>274.60</u>	<u>0.97</u>	<u>31.20</u>	<u>30.20</u>	<u>61.40</u>	<u>6.95</u>	<u>27.78</u>	<u>34.74</u>	<u>107,280.19</u>
Mass Grading 07/01/2009- 06/30/2010	53.01	921.65	274.60	0.97	31.20	30.20	61.40	6.95	27.78	34.74	107,280.19
Mass Grading Dust	0.00	0.00	0.00	0.00	27.55	0.00	27.55	5.75	0.00	5.75	0.00
Mass Grading Off Road Diesel	4.42	30.30	18.16	0.00	0.00	0.29	0.29	0.00	0.27	0.27	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010 Active Days: 129	<u>49.33</u>	<u>834.51</u>	<u>251.86</u>	<u>0.97</u>	<u>31.20</u>	<u>26.93</u>	<u>58.14</u>	<u>6.95</u>	<u>24.78</u>	<u>31.73</u>	<u>107,280.15</u>
Mass Grading 07/01/2009- 06/30/2010	49.33	834.51	251.86	0.97	31.20	26.93	58.14	6.95	24.78	31.73	107,280.15
Mass Grading Dust	0.00	0.00	0.00	0.00	27.55	0.00	27.55	5.75	0.00	5.75	0.00
Mass Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	28.74	19.05	0.00	27.56	0.27	27.83	5.76	0.25	6.01	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	28.74	19.05	0.00	27.56	0.27	27.83	5.76	0.25	6.01	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	27.55	0.00	27.55	5.75	0.00	5.75	0.00
Fine Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	10.18	62.94	156.15	0.18	0.92	2.78	3.70	0.33	2.53	2.86	19,729.53
Building 10/01/2010-03/31/2012	10.18	62.94	156.15	0.18	0.92	2.78	3.70	0.33	2.53	2.86	19,729.53
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	2.25	36.42	21.83	0.06	0.23	1.20	1.43	0.08	1.10	1.18	6,073.73
Building Worker Trips	4.14	9.74	122.58	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,909.47
Time Slice 1/1/2011-3/30/2011 Active Days: 76	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Building 10/01/2010-03/31/2012	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.08	31.73	20.38	0.06	0.23	1.07	1.31	0.08	0.98	1.06	6,073.88
Building Worker Trips	3.76	8.84	113.19	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,903.39

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Time Slice 3/31/2011-1/23/2011	61.67	57.48	146.13	0.18	0.92	2.60	3.52	0.33	2.36	2.69	19,850.93
Active Days: 237											
Building 10/01/2010-03/31/2012	9.35	57.39	144.92	0.18	0.92	2.60	3.51	0.33	2.36	2.69	19,723.60
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.08	31.73	20.38	0.06	0.23	1.07	1.31	0.08	0.98	1.06	6,073.88
Building Worker Trips	3.76	8.84	113.19	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,903.39
Coating 03/31/2011-05/31/2012	52.32	0.09	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.33
Architectural Coating	52.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.33
Time Slice 1/2/2012-1/31/2012	37.50	52.29	135.46	0.18	0.92	2.39	3.31	0.33	2.17	2.49	19,845.97
Active Days: 26											
Building 10/01/2010-03/31/2012	8.57	52.20	134.34	0.18	0.92	2.38	3.30	0.33	2.16	2.49	19,718.70
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	1.92	28.29	19.00	0.06	0.23	0.96	1.19	0.08	0.88	0.96	6,074.01
Building Worker Trips	3.40	8.05	104.35	0.12	0.68	0.34	1.02	0.25	0.29	0.53	11,898.36
Coating 03/31/2011-05/31/2012	28.93	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27

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Time Slice 2/1/2012-3/31/2012	<u>40.77</u>	<u>68.40</u>	<u>146.80</u>	<u>0.18</u>	<u>0.95</u>	<u>2.69</u>	<u>3.64</u>	<u>0.34</u>	<u>2.44</u>	<u>2.78</u>	<u>21,732.96</u>
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.27	16.11	14.35	0.01	0.02	0.30	0.33	0.01	0.28	0.29	1,886.99
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.17	2.85	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	463.02
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	28.93	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Time Slice 4/2/2012-5/31/2012	<u>32.20</u>	<u>16.20</u>	<u>12.46</u>	<u>0.01</u>	<u>0.03</u>	<u>0.31</u>	<u>0.34</u>	<u>0.01</u>	<u>0.28</u>	<u>0.29</u>	<u>2,014.26</u>
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.27	16.11	11.35	0.01	0.02	0.30	0.33	0.01	0.28	0.29	1,886.99
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.17	2.85	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	463.02
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	28.93	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27
Architectural Coating	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	127.27

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

The following mitigation measures apply to Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

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NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.33	18.11	13.44	0.00	0.03	0.03	22,064.84
Hearth - No Summer Emissions							
Landscape	0.78	0.11	9.62	0.00	0.03	0.03	16.49
Consumer Products	16.63						
Architectural Coatings	9.02						
TOTALS (lbs/day, unmitigated)	27.76	18.22	23.06	0.00	0.06	0.06	22,081.33

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.07	14.49	10.76	0.00	0.03	0.03	17,651.87
Hearth - No Summer Emissions							
Landscape	0.78	0.11	9.62	0.00	0.03	0.03	16.49
Consumer Products	16.63						
Architectural Coatings	8.35						
TOTALS (lbs/day, mitigated)	26.83	14.60	20.38	0.00	0.06	0.06	17,668.36

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Residential Increase Energy Efficiency Beyond Title 24	20.00
Commercial Increase Energy Efficiency Beyond Title 24	20.00
Percent of Residential Landscape Equipment that are Electrically Powered and have Electrical Outlets at the Front and Rear of Residences	20.00
For Nonresidential Interior Use Low VOC Coating	10.00
For Nonresidential Exterior Use Low VOC Coating	10.00

Area Source Changes to Defaults

- Percent residential using natural gas changed from 60% to 100%
- Percentage of residences with wood stoves changed from 35% to 0%
- Percentage of residences with wood fireplaces changed from 10% to 0%
- Percentage of residences with natural gas fireplaces changed from 55% to 50%

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	19.49	30.02	233.09	0.25	51.32	9.77	25,183.43
Hotel	29.55	41.45	311.55	0.34	71.22	13.54	34,682.12
Strip mall	34.88	51.03	386.24	0.41	85.65	16.29	41,853.90
General office building	0.72	1.17	8.98	0.01	2.01	0.38	983.54
Casino	83.20	142.43	1,070.67	1.17	244.77	46.52	119,186.84
Entertainment	42.60	47.63	357.43	0.39	81.88	15.56	39,854.97
TOTALS (lbs/day, unmitigated)	210.44	313.73	2,367.96	2.57	536.85	102.06	261,744.80

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	18.66	28.62	222.19	0.24	48.92	9.31	24,006.41
Hotel	28.87	40.26	302.64	0.33	69.19	13.15	33,689.55
Strip mall	33.93	49.57	375.18	0.40	83.20	15.83	40,656.08
General office building	0.70	1.14	8.72	0.01	1.95	0.37	955.39
Casino	80.86	138.36	1,040.02	1.13	237.76	45.19	115,775.82
Entertainment	41.82	46.27	347.20	0.38	79.54	15.12	38,714.36
TOTALS (lbs/day, mitigated)	204.84	304.22	2,295.95	2.49	520.56	98.97	253,797.61

Operational Mitigation Options SelectedResidential Mitigation Measures

Residential Mix of Uses Mitigation

Operational Mitigation Options Selected

Residential Mitigation Measures

Percent Reduction in Trips is 0.43% (calculated as a % of 9.57 trips/day))

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Inputs Selected:

The number of housing units within a 1/2 mile radius of the project, plus the number of residential units included in the project are 340.

The employment for the study area (within a 1/2 mile radius of the project) is 85.

Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2% (calculated as a % of 9.57 trips/day))

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43% (calculated as a % of 9.57 trips/day)

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Operational Mitigation Options Selected

Residential Mitigation Measures

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 6

The Number of Dedicated Daily Shuttle Trips is 4

Nonresidential Mitigation Measures

Non-Residential Mix of Uses Mitigation

Percent Reduction in Trips is 0.43%

Inputs Selected:

The number of housing units within a 1/2 mile radius of the project, plus the number of residential units included in the project are 340.

The employment for the study area (within a 1/2 mile radius of the project) is 85.

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43%

Nonresidential Mitigation Measures

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 6

The Number of Dedicated Daily Shuttle Trips is 4

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2012 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreege	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	21.25	5.86	dwelling units	340.00	1,992.40	29,886.00
Hotel		2.45	rooms	1,129.00	2,766.05	41,490.75
Strip mall		15.40	1000 sq ft	300.00	4,620.00	49,884.22
General office building		11.00	1000 sq ft	7.10	78.10	1,171.50
Casino		34.04	1000 sq ft	279.25	9,505.67	142,585.05
Entertainment		1.06	unknown	3,000.00	3,180.00	47,700.00
					22,142.22	312,717.52

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.8	0.7	99.1	0.2

Vehicle Type	Vehicle Fleet Mix						
	Percent Type	Non-Catalyst			Catalyst		Diesel
Light Truck < 3750 lbs	12.8	1.6	95.3	3.1			
Light Truck 3751-5750 lbs	19.8	0.5	99.5	0.0			
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0			
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2			
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0			
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0			
Heavy-Heavy Truck 33,001-60,000 lbs	0.4	0.0	0.0	100.0			
Other Bus	0.1	0.0	0.0	100.0			
Urban Bus	0.1	0.0	0.0	100.0			
Motorcycle	3.2	59.4	40.6	0.0			
School Bus	0.1	0.0	0.0	100.0			
Motor Home	0.6	0.0	83.3	16.7			

	Travel Conditions						
	Residential			Commercial			
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer	
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1				

% of Trips - Commercial (by land use)

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Casino				5.0	2.5	92.5
Entertainment				2.0	1.0	97.0

Operational Changes to Defaults

- Ambient summer temperature changed from 85 degrees F to 70 degrees F
- Ambient winter temperature changed from 40 degrees F to 50 degrees F
- Home-based work urban trip length changed from 10.8 miles to 15 miles
- Home-based shop urban trip length changed from 7.3 miles to 15 miles
- Home-based other urban trip length changed from 7.5 miles to 15 miles
- Commercial-based commute urban trip length changed from 9.5 miles to 15 miles
- Commercial-based non-work urban trip length changed from 7.35 miles to 15 miles
- Commercial-based customer urban trip length changed from 7.35 miles to 15 miles

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\lequinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt B Cumulative Operation.urb924

Project Name: Point Molate - Alt B Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	5.00	3.32	3.32	0.00	0.01	0.01	4,028.91
TOTALS (tons/year, mitigated)	4.82	2.65	2.83	0.00	0.00	0.00	3,223.55
Percent Reduction	3.60	20.18	14.76	NaN	100.00	100.00	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	20.67	24.33	206.80	0.48	103.76	19.52	50,043.27
TOTALS (tons/year, mitigated)	20.11	23.59	200.53	0.48	100.61	18.93	48,528.88
Percent Reduction	2.71	3.04	3.03	0.00	3.04	3.02	3.03

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	25.67	27.65	210.12	0.48	103.77	19.53	54,072.18
TOTALS (tons/year, mitigated)	24.93	26.24	203.36	0.48	100.61	18.93	51,752.43
Percent Reduction	2.88	5.10	3.22	0.00	3.05	3.07	4.29

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt B Cumulative Operation.urb924

Project Name: Point Molate - Alt B Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	27.76	18.22	23.06	0.00	0.06	0.06	22,081.33
TOTALS (lbs/day, mitigated)	26.83	14.60	20.38	0.00	0.06	0.06	17,668.36
Percent Reduction	3.35	19.87	11.62	NaN	0.00	0.00	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	109.32	124.20	1,102.17	2.70	568.50	106.91	275,612.17
TOTALS (lbs/day, mitigated)	106.48	120.46	1,068.76	2.62	551.31	103.68	267,271.70
Percent Reduction	2.60	3.01	3.03	2.96	3.02	3.02	3.03

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	137.08	142.42	1,125.23	2.70	568.56	106.97	297,693.50
TOTALS (lbs/day, mitigated)	133.31	135.06	1,089.14	2.62	551.37	103.74	284,940.06
Percent Reduction	2.75	5.17	3.21	2.96	3.02	3.02	4.28

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.33	18.11	13.44	0.00	0.03	0.03	22,064.84
Hearth - No Summer Emissions							
Landscape	0.78	0.11	9.62	0.00	0.03	0.03	16.49
Consumer Products	16.63						
Architectural Coatings	9.02						
TOTALS (lbs/day, unmitigated)	27.76	18.22	23.06	0.00	0.06	0.06	22,081.33

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.07	14.49	10.76	0.00	0.03	0.03	17,651.87
Hearth - No Summer Emissions							
Landscape	0.78	0.11	9.62	0.00	0.03	0.03	16.49
Consumer Products	16.63						
Architectural Coatings	8.35						
TOTALS (lbs/day, mitigated)	26.83	14.60	20.38	0.00	0.06	0.06	17,668.36

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Area Source Changes to Defaults

Percent residential using natural gas changed from 60% to 100%

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 50%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	9.68	11.22	102.51	0.24	51.17	9.64	24,985.60
Hotel	15.18	15.51	137.32	0.34	71.02	13.35	34,409.81
Strip mall	20.40	25.90	228.91	0.56	118.61	22.30	57,447.87
General office building	0.36	0.44	3.95	0.01	2.01	0.38	975.82
Casino	40.98	53.30	471.92	1.16	244.05	45.89	118,251.03
Entertainment	22.72	17.83	157.56	0.39	81.64	15.35	39,542.04
TOTALS (lbs/day, unmitigated)	109.32	124.20	1,102.17	2.70	568.50	106.91	275,612.17

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/lowhouse general	9.27	10.70	97.71	0.23	48.78	9.19	23,817.82
Hotel	14.84	15.07	133.39	0.33	68.98	12.97	33,425.03
Strip mall	19.85	25.16	222.36	0.55	115.22	21.66	55,803.77
General office building	0.35	0.43	3.84	0.01	1.95	0.37	947.90
Casino	39.83	51.78	458.41	1.12	237.07	44.58	114,866.80
Entertainment	22.34	17.32	153.05	0.38	79.31	14.91	38,410.38
TOTALS (lbs/day, mitigated)	106.48	120.46	1,066.76	2.62	551.31	103.68	267,271.70

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/lowhouse general	21.25	5.86 dwelling units		340.00	1,992.40	29,886.00
Hotel		2.45 rooms		1,129.00	2,766.05	41,490.75
Strip mall		15.40 1000 sq ft		300.00	4,620.00	69,300.00
General office building		11.00 1000 sq ft		7.10	78.10	1,171.50
Casino		34.04 1000 sq ft		279.25	9,505.67	142,585.05

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Casino				5.0	2.5	92.5
Entertainment				2.0	1.0	97.0

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt C Construction and Operation.urb924

Project Name: Point Molate - Alt C Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	3.55	61.63	18.37	0.06	9.20	2.13	11.33	1.95	1.96	3.91	7,121.21
2009 TOTALS (tons/year mitigated)	3.55	61.22	18.37	0.06	0.94	2.00	2.94	0.22	1.84	2.06	7,121.21
Percent Reduction	0.00	0.66	0.00	0.00	89.82	5.97	74.08	88.49	5.97	47.17	0.00
2010 TOTALS (tons/year unmitigated)	3.58	56.69	19.34	0.06	14.25	1.97	16.22	3.01	1.81	4.82	7,337.75
2010 TOTALS (tons/year mitigated)	3.58	56.17	19.34	0.06	1.22	1.81	3.04	0.29	1.67	1.95	7,337.75
Percent Reduction	0.00	0.93	0.00	0.00	91.42	8.04	81.27	90.50	8.04	59.46	0.00
2011 TOTALS (tons/year unmitigated)	4.44	4.43	8.71	0.01	0.05	0.25	0.30	0.02	0.23	0.24	1,167.21
2011 TOTALS (tons/year mitigated)	2.93	4.43	8.71	0.01	0.05	0.25	0.30	0.02	0.23	0.24	1,167.21
Percent Reduction	33.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012 TOTALS (tons/year unmitigated)	2.30	1.78	2.59	0.00	0.01	0.12	0.13	0.00	0.11	0.11	372.00
2012 TOTALS (tons/year mitigated)	0.96	1.68	2.59	0.00	0.01	0.07	0.08	0.00	0.06	0.07	372.00
Percent Reduction	58.31	5.59	0.00	0.00	0.00	41.87	37.86	0.00	42.03	40.37	0.00

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.69	1.02	1.57	0.00	0.00	0.00	1,213.26
TOTALS (tons/year, mitigated)	0.62	0.82	1.40	0.00	0.00	0.00	970.86
Percent Reduction	10.14	19.61	10.83	NaN	NaN	NaN	19.98

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	21.89	34.90	254.01	0.26	55.88	10.62	27,074.66
TOTALS (tons/year, mitigated)	21.40	34.04	247.83	0.26	54.52	10.36	26,415.85
Percent Reduction	2.24	2.46	2.43	0.00	2.43	2.45	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	22.58	35.92	255.58	0.26	55.88	10.62	28,287.92
TOTALS (tons/year, mitigated)	22.02	34.86	249.23	0.26	54.52	10.36	27,386.71
Percent Reduction	2.48	2.95	2.48	0.00	2.43	2.45	3.19

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt C Construction and Operation.urb924

Project Name: Point Molate - Alt C Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (lbs/day unmitigated)	53.01	927.00	274.60	0.97	138.25	31.83	170.09	29.31	29.28	58.59	107,280.19
2009 TOTALS (lbs/day mitigated)	53.01	921.65	274.60	0.97	13.03	30.20	43.23	3.16	27.78	30.94	107,280.19
2010 TOTALS (lbs/day unmitigated)	49.33	839.56	251.86	0.97	138.25	28.46	166.71	29.31	26.18	55.49	107,280.15
2010 TOTALS (lbs/day mitigated)	49.33	834.51	251.86	0.97	13.03	26.93	39.97	3.16	24.78	27.94	107,280.15
2011 TOTALS (lbs/day unmitigated)	35.76	28.30	55.78	0.06	0.30	1.59	1.89	0.11	1.45	1.56	7,468.68
2011 TOTALS (lbs/day mitigated)	23.03	28.30	55.78	0.06	0.30	1.59	1.89	0.11	1.45	1.56	7,468.68
2012 TOTALS (lbs/day unmitigated)	37.86	40.79	62.53	0.06	0.32	2.66	2.98	0.11	2.44	2.55	8,999.02
2012 TOTALS (lbs/day mitigated)	17.23	38.87	62.53	0.06	0.32	1.70	2.02	0.11	1.55	1.67	8,999.02

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AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	4.10	5.62	12.67	0.00	0.03	0.03	6,654.94
TOTALS (lbs/day, mitigated)	3.71	4.52	11.74	0.00	0.03	0.03	5,326.70
Percent Reduction	9.51	19.57	7.34	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	112.53	178.23	1,339.98	1.47	306.14	58.18	149,083.98
TOTALS (lbs/day, mitigated)	110.03	173.91	1,307.36	1.43	298.69	56.77	145,456.28
Percent Reduction	2.22	2.42	2.43	2.72	2.43	2.42	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	116.63	183.85	1,352.65	1.47	306.17	58.21	155,738.92
TOTALS (lbs/day, mitigated)	113.74	178.43	1,319.10	1.43	298.72	56.80	150,782.98
Percent Reduction	2.48	2.95	2.48	2.72	2.43	2.42	3.18

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 6/1/2009-6/30/2009	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
Active Days: 26											
Demolition 06/01/2009-	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
06/30/2009											
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	27.30	15.70	0.00	0.00	1.74	1.74	0.00	1.60	1.60	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009	<u>53.01</u>	<u>927.00</u>	<u>274.60</u>	<u>0.97</u>	<u>138.25</u>	<u>31.83</u>	<u>170.09</u>	<u>29.31</u>	<u>29.28</u>	<u>58.59</u>	<u>107,280.19</u>
Active Days: 132											
Mass Grading 07/01/2009-	53.01	927.00	274.60	0.97	138.25	31.83	170.09	29.31	29.28	58.59	107,280.19
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	134.60	0.00	134.60	28.11	0.00	28.11	0.00
Mass Grading Off Road Diesel	4.42	35.65	18.16	0.00	0.00	1.92	1.92	0.00	1.77	1.77	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010	<u>49.33</u>	<u>839.56</u>	<u>251.86</u>	<u>0.97</u>	<u>138.25</u>	<u>28.46</u>	<u>166.71</u>	<u>29.31</u>	<u>26.18</u>	<u>55.49</u>	<u>107,280.15</u>
Active Days: 129											
Mass Grading 07/01/2009-	49.33	839.56	251.86	0.97	138.25	28.46	166.71	29.31	26.18	55.49	107,280.15
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	134.60	0.00	134.60	28.11	0.00	28.11	0.00
Mass Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	33.79	19.05	0.00	134.61	1.80	136.41	28.11	1.65	29.77	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	33.79	19.05	0.00	134.61	1.80	136.41	28.11	1.65	29.77	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	134.60	0.00	134.60	28.11	0.00	28.11	0.00
Fine Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	154.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	5.80	30.52	59.34	0.06	0.29	1.68	1.97	0.11	1.54	1.64	7,427.67
Building 10/01/2010-03/31/2012	5.80	30.52	59.34	0.06	0.29	1.68	1.97	0.11	1.54	1.64	7,427.67
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	0.60	9.44	5.97	0.02	0.06	0.32	0.38	0.02	0.29	0.31	1,635.91
Building Worker Trips	1.41	3.31	41.64	0.04	0.23	0.11	0.35	0.08	0.10	0.18	4,045.42
Time Slice 1/1/2011-3/30/2011 Active Days: 76	5.35	28.27	55.37	0.06	0.29	1.59	1.88	0.11	1.45	1.56	7,425.64
Building 10/01/2010-03/31/2012	5.35	28.27	55.37	0.06	0.29	1.59	1.88	0.11	1.45	1.56	7,425.64
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	0.56	8.45	5.57	0.02	0.06	0.29	0.35	0.02	0.26	0.28	1,635.96
Building Worker Trips	1.28	3.00	38.45	0.04	0.23	0.11	0.35	0.08	0.10	0.18	4,043.36

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

Building Volume Total (cubic feet): 398224.8

Building Volume Daily (cubic feet): 14000

On Road Truck Travel (VMT): 194.44

Off-Road Equipment:

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 26.92

Maximum Daily Acreage Disturbed: 6.73

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

Total Acres Disturbed: 26.92

Maximum Daily Acreage Disturbed: 6.73

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 25862.07

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

Acres to be Paved: 6.73

Off-Road Equipment:

- 4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 10/1/2010 - 3/31/2012 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2009-6/30/2009 Active Days: 26	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Demolition 06/01/2009- 06/30/2009	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	23.20	15.70	0.00	0.00	0.26	0.26	0.00	0.24	0.24	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009 Active Days: 132	<u>53.01</u>	<u>921.65</u>	<u>274.60</u>	<u>0.97</u>	<u>13.03</u>	<u>30.20</u>	<u>43.23</u>	<u>3.16</u>	<u>27.78</u>	<u>30.94</u>	<u>107,280.19</u>
Mass Grading 07/01/2009- 06/30/2010	53.01	921.65	274.60	0.97	13.03	30.20	43.23	3.16	27.78	30.94	107,280.19
Mass Grading Dust	0.00	0.00	0.00	0.00	9.38	0.00	9.38	1.96	0.00	1.96	0.00
Mass Grading Off Road Diesel	4.42	30.30	18.16	0.00	0.00	0.29	0.29	0.00	0.27	0.27	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010 Active Days: 129	<u>49.33</u>	<u>834.51</u>	<u>251.86</u>	<u>0.97</u>	<u>13.03</u>	<u>26.93</u>	<u>39.97</u>	<u>3.16</u>	<u>24.78</u>	<u>27.94</u>	<u>107,280.15</u>
Mass Grading 07/01/2009- 06/30/2010	49.33	834.51	251.86	0.97	13.03	26.93	39.97	3.16	24.78	27.94	107,280.15
Mass Grading Dust	0.00	0.00	0.00	0.00	9.38	0.00	9.38	1.96	0.00	1.96	0.00
Mass Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	28.74	19.05	0.00	9.39	0.27	9.66	1.96	0.25	2.21	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	28.74	19.05	0.00	9.39	0.27	9.66	1.96	0.25	2.21	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	9.38	0.00	9.38	1.96	0.00	1.96	0.00
Fine Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	5.80	30.52	59.34	0.06	0.29	1.68	1.97	0.11	1.54	1.64	7,427.67
Building 10/01/2010-03/31/2012	5.80	30.52	59.34	0.06	0.29	1.68	1.97	0.11	1.54	1.64	7,427.67
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	0.60	9.44	5.97	0.02	0.06	0.32	0.38	0.02	0.29	0.31	1,635.91
Building Worker Trips	1.41	3.31	41.64	0.04	0.23	0.11	0.35	0.08	0.10	0.18	4,045.42
Time Slice 1/1/2011-3/30/2011 Active Days: 76	5.35	28.27	55.37	0.06	0.29	1.59	1.88	0.11	1.45	1.56	7,425.64
Building 10/01/2010-03/31/2012	5.35	28.27	55.37	0.06	0.29	1.59	1.88	0.11	1.45	1.56	7,425.64
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	0.56	8.45	5.57	0.02	0.06	0.29	0.35	0.02	0.26	0.28	1,635.96
Building Worker Trips	1.28	3.00	38.45	0.04	0.23	0.11	0.35	0.08	0.10	0.18	4,043.36

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

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NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Paving 2/1/2012 - 5/3/2012 - Default Paving Description

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Architectural Coating 3/3/2011 - 5/3/2012 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.40	5.53	4.65	0.00	0.01	0.01	6,641.20
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	3.05						
TOTALS (lbs/day, unmitigated)	4.10	5.62	12.67	0.00	0.03	0.03	6,654.94

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.32	4.43	3.72	0.00	0.01	0.01	5,312.96
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	2.74						
TOTALS (lbs/day, mitigated)	3.71	4.52	11.74	0.00	0.03	0.03	5,326.70

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Residential Increase Energy Efficiency Beyond Title 24	20.00
Commercial Increase Energy Efficiency Beyond Title 24	20.00
Percent of Residential Landscape Equipment that are Electrically Powered and have Electrical Outlets at the Front and Rear of Residences	20.00
For Nonresidential Interior Use Low VOC Coating	10.00
For Nonresidential Exterior Use Low VOC Coating	10.00

Area Source Changes to Defaults

- Percent residential using natural gas changed from 60% to 0%
- Percentage of residences with wood stoves changed from 35% to 0%
- Percentage of residences with wood fireplaces changed from 10% to 0%
- Percentage of residences with natural gas fireplaces changed from 55% to 50%

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	10.49	14.46	108.72	0.12	24.85	4.72	12,102.79
Strip mall	1.01	1.04	8.04	0.01	1.62	0.31	802.40
General office building	0.72	1.17	8.98	0.01	2.01	0.38	983.54
Casino	83.20	142.43	1,070.67	1.17	244.77	46.52	119,186.84
Entertainment	17.11	19.13	143.57	0.16	32.89	6.25	16,008.41
TOTALS (lbs/day, unmitigated)	112.53	178.23	1,339.98	1.47	306.14	58.18	149,083.98

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	10.29	14.11	106.07	0.12	24.25	4.61	11,808.29
Strip mall	0.99	1.01	7.84	0.01	1.58	0.30	782.88
General office building	0.70	1.15	8.76	0.01	1.96	0.37	959.61
Casino	81.21	138.97	1,044.61	1.14	238.81	45.39	116,286.62
Entertainment	16.84	18.67	140.08	0.15	32.09	6.10	15,618.88
TOTALS (lbs/day, mitigated)	110.03	173.91	1,307.36	1.43	298.69	56.77	145,456.28

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Nonresidential Mitigation Measures

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 6

The Number of Dedicated Daily Shuttle Trips is 4

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2012 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel		2.25	rooms	429.00	965.25	14,478.75
Strip mall		8.15	1000 sq ft	20.00	163.00	944.26
General office building		11.00	1000 sq ft	7.10	78.10	1,171.50

Summary of Land Uses

Land Use Type	Acres	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Casino		34.04	1000 sq ft	279.25	9,505.67	142,585.05
Entertainment		1.06	unknown	1,205.00	1,277.30	19,159.50
					11,989.32	178,339.06

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.8	0.7	99.1	0.2
Light Truck < 3750 lbs	12.8	1.6	95.3	3.1
Light Truck 3751-5750 lbs	19.8	0.5	99.5	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.4	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.2	59.4	40.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Hotel	5.0	2.5	92.5
Strip mall	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Casino	5.0	2.5	92.5
Entertainment	2.0	1.0	97.0

Operational Changes to Defaults

- Ambient summer temperature changed from 85 degrees F to 70 degrees F
- Ambient winter temperature changed from 40 degrees F to 50 degrees F
- Home-based work urban trip length changed from 10.8 miles to 15 miles
- Home-based shop urban trip length changed from 7.3 miles to 15 miles
- Home-based other urban trip length changed from 7.5 miles to 15 miles
- Commercial-based commute urban trip length changed from 9.5 miles to 15 miles
- Commercial-based non-work urban trip length changed from 7.35 miles to 15 miles
- Commercial-based customer urban trip length changed from 7.35 miles to 15 miles

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt C Cumulative Operation.urb924

Project Name: Point Molate - Alt C Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.69	1.02	1.57	0.00	0.00	0.00	1,213.26
TOTALS (tons/year, mitigated)	0.62	0.82	1.40	0.00	0.00	0.00	970.86
Percent Reduction	10.14	19.61	10.83	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	10.97	13.33	113.02	0.27	56.85	10.70	27,407.60
TOTALS (tons/year, mitigated)	10.71	12.99	110.27	0.27	55.48	10.43	26,740.69
Percent Reduction	2.37	2.55	2.43	0.00	2.41	2.52	2.43

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	11.66	14.35	114.59	0.27	56.85	10.70	28,620.86
TOTALS (tons/year, mitigated)	11.33	13.81	111.67	0.27	55.48	10.43	27,711.55
Percent Reduction	2.83	3.76	2.55	0.00	2.41	2.52	3.18

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt C Cumulative Operation.urb924

Project Name: Point Molate - Alt C Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	4.10	5.62	12.67	0.00	0.03	0.03	6,654.94
TOTALS (lbs/day, mitigated)	3.71	4.52	11.74	0.00	0.03	0.03	5,326.70
Percent Reduction	9.51	19.57	7.34	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	57.24	68.04	602.34	1.49	311.54	58.59	150,947.19
TOTALS (lbs/day, mitigated)	55.98	66.38	587.68	1.44	303.97	57.17	147,274.14
Percent Reduction	2.20	2.44	2.43	3.36	2.43	2.42	2.43

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	61.34	73.66	615.01	1.49	311.57	58.62	157,602.13
TOTALS (lbs/day, mitigated)	59.69	70.90	599.42	1.44	304.00	57.20	152,600.84
Percent Reduction	2.69	3.75	2.53	3.36	2.43	2.42	3.17

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.40	5.53	4.65	0.00	0.01	0.01	6,641.20
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	3.05						
TOTALS (lbs/day, unmitigated)	4.10	5.62	12.67	0.00	0.03	0.03	6,654.94

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.32	4.43	3.72	0.00	0.01	0.01	5,312.96
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	0.00						
Architectural Coatings	2.74						
TOTALS (lbs/day, mitigated)	3.71	4.52	11.74	0.00	0.03	0.03	5,326.70

Area Source Changes to Defaults

Percent residential using natural gas changed from 60% to 0%

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 50%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	5.41	5.41	47.92	0.12	24.78	4.66	12,007.76
Strip mall	1.36	1.73	15.26	0.04	7.91	1.49	3,829.86
General office building	0.36	0.44	3.95	0.01	2.01	0.38	975.82
Casino	40.98	53.30	471.92	1.16	244.05	45.89	118,251.03
Entertainment	9.13	7.16	63.29	0.16	32.79	6.17	15,882.72
TOTALS (lbs/day, unmitigated)	57.24	68.04	602.34	1.49	311.54	58.59	150,947.19

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Hotel	5.31	5.28	46.75	0.11	24.18	4.55	11,715.57
Strip mall	1.33	1.68	14.89	0.04	7.72	1.45	3,736.66
General office building	0.35	0.43	3.86	0.01	1.96	0.37	952.08
Casino	40.00	52.00	460.43	1.13	238.11	44.78	115,373.59
Entertainment	8.99	6.99	61.75	0.15	32.00	6.02	15,496.24
TOTALS (lbs/day, mitigated)	55.98	66.38	587.68	1.44	303.97	57.17	147,274.14

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel	2.25	rooms	429.00	965.25	14,478.75	
Strip mall	15.40	1000 sq ft	20.00	308.00	4,620.00	
General office building	11.00	1000 sq ft	7.10	78.10	1,171.50	
Casino	34.04	1000 sq ft	279.25	9,505.67	142,585.05	
Entertainment	1.06	unknown	1,205.00	1,277.30	19,159.50	
					12,134.32	182,014.80

Vehicle Type	Vehicle Fleet Mix						
	Percent Type	Non-Catalyst	Catalyst	Diesel	Residential		
Light Auto	54.0	0.0	100.0	0.0	Home-Work	Home-Shop	Home-Other
Light Truck < 3750 lbs	12.6	0.0	99.2	0.8	15.0	15.0	15.0
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0	16.8	7.1	7.9
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0	35.0	35.0	35.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2	18.0	18.0	49.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0			
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0			
Heavy-Heavy Truck 33,001-60,000 lbs	0.3	0.0	0.0	100.0			
Other Bus	0.1	0.0	0.0	100.0			
Urban Bus	0.1	0.0	0.0	100.0			
Motorcycle	3.2	34.4	65.6	0.0			
School Bus	0.1	0.0	0.0	100.0			
Motor Home	0.6	0.0	83.3	16.7			

Travel Conditions

	Residential				Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer	
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0	
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6	
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0	
% of Trips - Residential	32.9	18.0	49.1				

% of Trips - Commercial (by land use)	Residential			Commute	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Casino				5.0	2.5	92.5
Entertainment				2.0	1.0	97.0

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt D Construction and Operation.urb924

Project Name: Point Molate - Alt D Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

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CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	3.55	61.63	18.37	0.06	26.28	2.13	28.41	5.52	1.96	7.47	7,121.21
2009 TOTALS (tons/year mitigated)	3.55	61.22	18.37	0.06	2.13	2.00	4.13	0.47	1.84	2.31	7,121.21
Percent Reduction	0.00	0.66	0.00	0.00	91.91	5.97	85.47	91.43	5.97	69.06	0.00
2010 TOTALS (tons/year unmitigated)	3.78	58.57	23.25	0.07	41.19	2.04	43.22	8.64	1.87	10.51	7,900.53
2010 TOTALS (tons/year mitigated)	3.78	58.05	23.25	0.07	3.13	1.88	5.00	0.69	1.73	2.41	7,900.53
Percent Reduction	0.00	0.90	0.00	0.00	92.41	7.79	88.43	92.05	7.79	77.04	0.00
2011 TOTALS (tons/year unmitigated)	11.81	11.11	23.16	0.03	0.15	0.48	0.63	0.05	0.44	0.49	3,405.79
2011 TOTALS (tons/year mitigated)	7.52	11.11	23.16	0.03	0.15	0.48	0.63	0.05	0.44	0.49	3,405.79
Percent Reduction	36.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012 TOTALS (tons/year unmitigated)	6.14	3.47	5.98	0.01	0.04	0.19	0.22	0.01	0.17	0.18	950.88
2012 TOTALS (tons/year mitigated)	2.33	3.35	5.98	0.01	0.04	0.12	0.16	0.01	0.11	0.13	950.88
Percent Reduction	62.00	3.48	0.00	0.00	0.00	32.69	26.89	0.00	32.91	30.38	0.00

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	11.69	3.00	2.19	0.00	0.01	0.01	3,785.78
TOTALS (tons/year, mitigated)	11.62	2.40	1.89	0.00	0.00	0.00	3,029.26
Percent Reduction	0.60	20.00	13.70	NaN	100.00	100.00	19.98

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	15.64	24.68	182.40	0.19	39.42	7.51	19,178.02
TOTALS (tons/year, mitigated)	15.47	24.42	180.46	0.18	39.01	7.42	18,973.37
Percent Reduction	1.09	1.05	1.06	5.26	1.04	1.20	1.07

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	27.33	27.68	184.59	0.19	39.43	7.52	22,963.80
TOTALS (tons/year, mitigated)	27.09	26.82	182.35	0.18	39.01	7.42	22,002.63
Percent Reduction	0.88	3.11	1.21	5.26	1.07	1.33	4.19

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Versions9a\Projects\Point Molate 9.2.4\Point Molate - Alt D Construction and Operation.urb924

Project Name: Point Molate - Alt D Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (lbs/day unmitigated)	53.01	927.00	274.60	0.97	397.05	31.83	428.89	83.36	29.28	112.64	107,280.19
2009 TOTALS (lbs/day mitigated)	53.01	921.65	274.60	0.97	31.06	30.20	61.26	6.92	27.78	34.71	107,280.19
2010 TOTALS (lbs/day unmitigated)	49.33	839.56	251.86	0.97	397.05	28.46	425.51	83.36	26.18	109.54	107,280.15
2010 TOTALS (lbs/day mitigated)	49.33	834.51	251.86	0.97	31.06	26.93	58.00	6.92	24.78	31.70	107,280.15
2011 TOTALS (lbs/day unmitigated)	96.41	71.03	148.24	0.19	0.98	3.05	4.04	0.35	2.78	3.13	21,791.93
2011 TOTALS (lbs/day mitigated)	60.26	71.03	148.24	0.19	0.98	3.05	4.04	0.35	2.78	3.13	21,791.93
2012 TOTALS (lbs/day unmitigated)	98.83	82.77	148.81	0.20	1.01	4.25	5.26	0.36	3.88	4.24	23,671.92
2012 TOTALS (lbs/day mitigated)	40.25	80.45	148.81	0.20	1.01	3.09	4.10	0.36	2.81	3.17	23,671.92

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	64.37	16.48	16.06	0.00	0.05	0.05	20,740.34
TOTALS (lbs/day, mitigated)	64.00	13.20	14.45	0.00	0.04	0.04	16,595.02
Percent Reduction	0.57	19.90	10.02	NaN	20.00	20.00	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	80.56	126.05	963.35	1.03	216.02	41.07	105,599.81
TOTALS (lbs/day, mitigated)	79.79	124.69	953.00	1.02	213.72	40.65	104,472.99
Percent Reduction	0.96	1.08	1.07	0.97	1.06	1.02	1.07

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	144.93	142.53	979.41	1.03	216.07	41.12	126,340.15
TOTALS (lbs/day, mitigated)	143.79	137.89	967.45	1.02	213.76	40.69	121,068.01
Percent Reduction	0.79	3.26	1.22	0.97	1.07	1.05	4.17

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u> Dust	<u>PM10</u> Exhaust	<u>PM10</u>	<u>PM2.5</u> Dust	<u>PM2.5</u> Exhaust	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 6/1/2009-6/30/2009	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
Active Days: 26											
Demolition 06/01/2009-	4.08	34.11	18.96	0.01	5.91	1.96	7.88	1.23	1.81	3.04	3,132.24
06/30/2009											
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	27.30	15.70	0.00	0.00	1.74	1.74	0.00	1.60	1.60	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009	53.01	927.00	274.60	0.97	397.05	31.83	428.89	83.36	29.28	112.64	107,280.19
Active Days: 132											
Mass Grading 07/01/2009-	53.01	927.00	274.60	0.97	397.05	31.83	428.89	83.36	29.28	112.64	107,280.19
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	393.40	0.00	393.40	82.16	0.00	82.16	0.00
Mass Grading Off Road Diesel	4.42	35.65	18.16	0.00	0.00	1.92	1.92	0.00	1.77	1.77	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010	49.33	839.56	251.86	0.97	397.05	28.46	425.51	83.36	26.18	109.54	107,280.15
Active Days: 129											
Mass Grading 07/01/2009-	49.33	839.56	251.86	0.97	397.05	28.46	425.51	83.36	26.18	109.54	107,280.15
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	393.40	0.00	393.40	82.16	0.00	82.16	0.00
Mass Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010 Active Days: 79	4.22	33.79	19.05	0.00	393.41	1.80	395.21	82.16	1.65	83.81	3,159.18
Fine Grading 07/01/2010- 09/30/2010	4.22	33.79	19.05	0.00	393.41	1.80	395.21	82.16	1.65	83.81	3,159.18
Fine Grading Dust	0.00	0.00	0.00	0.00	393.40	0.00	393.40	82.16	0.00	82.16	0.00
Fine Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010 Active Days: 79	10.94	78.08	158.42	0.19	0.98	3.29	4.27	0.35	3.00	3.34	21,675.33
Building 10/01/2010-03/31/2012	10.94	78.08	158.42	0.19	0.98	3.29	4.27	0.35	3.00	3.34	21,675.33
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	3.22	51.06	30.45	0.08	0.33	1.72	2.05	0.11	1.58	1.69	8,635.83
Building Worker Trips	3.93	9.24	116.24	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,293.17
Time Slice 1/1/2011-3/30/2011 Active Days: 76	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Building 10/01/2010-03/31/2012	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.98	45.75	28.40	0.08	0.33	1.54	1.87	0.11	1.41	1.53	8,636.01
Building Worker Trips	3.56	8.39	107.33	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,287.40

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Time Slice 3/31/2011-12/31/2011	<u>96.41</u>	<u>71.03</u>	<u>148.24</u>	<u>0.19</u>	<u>0.98</u>	<u>3.05</u>	<u>4.04</u>	<u>0.35</u>	<u>2.78</u>	<u>3.13</u>	<u>21,791.93</u>
Active Days: 237											
Building 10/01/2010-03/31/2012	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.98	45.75	28.40	0.08	0.33	1.54	1.87	0.11	1.41	1.53	8,636.01
Building Worker Trips	3.56	8.39	107.33	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,287.40
Coating 03/31/2011-05/31/2012	86.35	0.09	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.19
Architectural Coating	86.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.19
Time Slice 1/2/2012-1/31/2012	95.57	64.36	137.47	0.19	0.98	2.79	3.77	0.35	2.54	2.88	21,787.27
Active Days: 26											
Building 10/01/2010-03/31/2012	9.22	64.27	136.40	0.19	0.98	2.78	3.76	0.35	2.53	2.88	21,665.14
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	2.75	40.77	26.45	0.08	0.33	1.38	1.71	0.11	1.27	1.38	8,636.18
Building Worker Trips	3.22	7.63	98.95	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,282.63
Coating 03/31/2011-05/31/2012	86.35	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	86.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13

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Time Slice 2/1/2012-3/31/2012	98.83	82.77	148.81	0.20	1.01	4.25	5.26	0.36	3.88	4.24	23,671.92
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.26	18.42	11.34	0.01	0.02	1.47	1.49	0.01	1.35	1.36	1,884.65
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.17	2.84	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	460.68
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	86.35	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	86.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Time Slice 4/2/2012-5/31/2012	89.61	18.50	12.41	0.01	0.03	1.47	1.50	0.01	1.35	1.36	2,006.78
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.26	18.42	11.34	0.01	0.02	1.47	1.49	0.01	1.35	1.36	1,884.65
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	15.48	9.17	0.00	0.00	1.37	1.37	0.00	1.26	1.26	1,272.41
Paving On Road Diesel	0.17	2.84	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	460.68
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	86.35	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	86.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

Building Volume Total (cubic feet): 398224.8

Building Volume Daily (cubic feet): 14000

On Road Truck Travel (VMT): 194.44

Off-Road Equipment:

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 78.69

Maximum Daily Acreage Disturbed: 19.67

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

Total Acres Disturbed: 78.69

Maximum Daily Acreage Disturbed: 19.67

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 25862.07

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

Acres to be Paved: 19.67

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/1/2010 - 3/31/2012 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG

NOx

CO

SO2

PM10 Dust

PM10 Exhaust

PM10

PM2.5 Dust

PM2.5 Exhaust

PM2.5

CO2

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Time Slice 6/1/2009-6/30/2009	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
Active Days: 26											
Demolition 06/01/2009-	4.08	30.01	18.96	0.01	5.91	0.49	6.40	1.23	0.45	1.68	3,132.24
06/30/2009											
Fugitive Dust	0.00	0.00	0.00	0.00	5.88	0.00	5.88	1.22	0.00	1.22	0.00
Demo Off Road Diesel	3.67	23.20	15.70	0.00	0.00	0.26	0.26	0.00	0.24	0.24	2,227.97
Demo On Road Diesel	0.36	6.70	1.92	0.01	0.03	0.22	0.25	0.01	0.21	0.22	782.84
Demo Worker Trips	0.05	0.11	1.35	0.00	0.01	0.00	0.01	0.00	0.00	0.01	121.44
Time Slice 7/1/2009-12/31/2009	<u>53.01</u>	<u>921.65</u>	<u>274.60</u>	<u>0.97</u>	<u>31.06</u>	<u>30.20</u>	<u>61.26</u>	<u>6.92</u>	<u>27.78</u>	<u>34.71</u>	<u>107,280.19</u>
Active Days: 132											
Mass Grading 07/01/2009-	53.01	921.65	274.60	0.97	31.06	30.20	61.26	6.92	27.78	34.71	107,280.19
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	27.41	0.00	27.41	5.72	0.00	5.72	0.00
Mass Grading Off Road Diesel	4.42	30.30	18.16	0.00	0.00	0.29	0.29	0.00	0.27	0.27	3,007.48
Mass Grading On Road Diesel	48.53	891.22	254.75	0.97	3.65	29.91	33.55	1.20	27.51	28.71	104,120.92
Mass Grading Worker Trips	0.06	0.14	1.69	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.79
Time Slice 1/1/2010-6/30/2010	<u>49.33</u>	<u>834.51</u>	<u>251.86</u>	<u>0.97</u>	<u>31.06</u>	<u>26.93</u>	<u>58.00</u>	<u>6.92</u>	<u>24.78</u>	<u>31.70</u>	<u>107,280.15</u>
Active Days: 129											
Mass Grading 07/01/2009-	49.33	834.51	251.86	0.97	31.06	26.93	58.00	6.92	24.78	31.70	107,280.15
06/30/2010											
Mass Grading Dust	0.00	0.00	0.00	0.00	27.41	0.00	27.41	5.72	0.00	5.72	0.00
Mass Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Mass Grading On Road Diesel	45.12	805.77	232.82	0.97	3.65	26.66	30.31	1.20	24.53	25.72	104,120.97
Mass Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70

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Time Slice 7/1/2010-9/30/2010	4.22	28.74	19.05	0.00	27.42	0.27	27.69	5.73	0.25	5.98	3,159.18
Active Days: 79											
Fine Grading 07/01/2010-	4.22	28.74	19.05	0.00	27.42	0.27	27.69	5.73	0.25	5.98	3,159.18
09/30/2010											
Fine Grading Dust	0.00	0.00	0.00	0.00	27.41	0.00	27.41	5.72	0.00	5.72	0.00
Fine Grading Off Road Diesel	4.16	28.62	17.48	0.00	0.00	0.27	0.27	0.00	0.25	0.25	3,007.48
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.05	0.12	1.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.70
Time Slice 10/1/2010-12/31/2010	10.94	78.08	158.42	0.19	0.98	3.29	4.27	0.35	3.00	3.34	21,675.33
Active Days: 79											
Building 10/01/2010-03/31/2012	10.94	78.08	158.42	0.19	0.98	3.29	4.27	0.35	3.00	3.34	21,675.33
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	3.22	51.06	30.45	0.08	0.33	1.72	2.05	0.11	1.58	1.69	8,636.83
Building Worker Trips	3.93	9.24	116.24	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,293.17
Time Slice 1/1/2011-3/30/2011	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Active Days: 76											
Building 10/01/2010-03/31/2012	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.98	45.75	28.40	0.08	0.33	1.54	1.87	0.11	1.41	1.53	8,636.01
Building Worker Trips	3.56	8.39	107.33	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,287.40

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Time Slice 3/31/2011-12/31/2011	60.26	71.03	148.24	0.19	0.98	3.05	4.04	0.35	2.78	3.13	21,791.93
Active Days: 237											
Building 10/01/2010-03/31/2012	10.06	70.94	147.08	0.19	0.98	3.05	4.03	0.35	2.78	3.12	21,669.74
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	2.98	45.75	28.40	0.08	0.33	1.54	1.87	0.11	1.41	1.53	8,636.01
Building Worker Trips	3.56	8.39	107.33	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,287.40
Coating 03/31/2011-05/31/2012	50.20	0.09	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.19
Architectural Coating	50.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.09	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.19
Time Slice 1/2/2012-1/31/2012	36.99	64.36	137.47	0.19	0.98	2.79	3.77	0.35	2.54	2.88	21,787.27
Active Days: 26											
Building 10/01/2010-03/31/2012	9.22	64.27	136.40	0.19	0.98	2.78	3.76	0.35	2.53	2.88	21,665.14
Building Off Road Diesel	3.26	15.87	11.00	0.00	0.00	1.08	1.08	0.00	1.00	1.00	1,746.33
Building Vendor Trips	2.75	40.77	26.45	0.08	0.33	1.38	1.71	0.11	1.27	1.38	8,636.18
Building Worker Trips	3.22	7.63	98.95	0.11	0.65	0.32	0.97	0.23	0.27	0.50	11,282.63
Coating 03/31/2011-05/31/2012	27.76	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	27.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13

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Time Slice	40.25	80.45	148.81	0.20	1.01	3.09	4.10	0.36	2.81	3.17	23,671.92
Time Slice 2/1/2012-3/31/2012											
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.26	16.10	11.34	0.01	0.02	0.30	0.33	0.01	0.28	0.29	1,884.65
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.17	2.84	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	460.68
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	27.76	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	27.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Time Slice 4/2/2012-5/31/2012	31.03	16.18	12.41	0.01	0.03	0.31	0.34	0.01	0.28	0.29	2,006.78
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.26	16.10	11.34	0.01	0.02	0.30	0.33	0.01	0.28	0.29	1,884.65
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.17	2.84	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	460.68
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	27.76	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	27.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Time Slice 4/2/2012-5/31/2012	31.03	16.18	12.41	0.01	0.03	0.31	0.34	0.01	0.28	0.29	2,006.78
Active Days: 52											
Asphalt 02/01/2012-05/31/2012	3.26	16.10	11.34	0.01	0.02	0.30	0.33	0.01	0.28	0.29	1,884.65
Paving Off-Gas	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.55	13.16	9.17	0.00	0.00	0.21	0.21	0.00	0.19	0.19	1,272.41
Paving On Road Diesel	0.17	2.84	0.85	0.00	0.02	0.09	0.11	0.01	0.09	0.09	460.68
Paving Worker Trips	0.04	0.10	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.56
Coating 03/31/2011-05/31/2012	27.76	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13
Architectural Coating	27.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.08	1.07	0.00	0.01	0.00	0.01	0.00	0.00	0.01	122.13

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/30/2009 - Type Your Description Here

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Fine Grading 7/1/2010 - 9/30/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:
NOX: 15%

The following mitigation measures apply to Phase: Mass Grading 7/1/2009 - 6/30/2010 - Type Your Description Here

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

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NOX: 15%

For Tractors/loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Paving 2/1/2012 - 5/31/2012 - Default Paving Description

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Architectural Coating 3/31/2011 - 5/31/2012 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.25	16.39	8.04	0.00	0.03	0.03	20,726.60
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	53.82						
Architectural Coatings	8.65						
TOTALS (lbs/day, unmitigated)	64.37	16.48	16.06	0.00	0.05	0.05	20,740.34

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.00	13.11	6.43	0.00	0.02	0.02	16,581.28
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	53.82						
Architectural Coatings	8.53						
TOTALS (lbs/day, mitigated)	64.00	13.20	14.45	0.00	0.04	0.04	16,595.02

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Residential Increase Energy Efficiency Beyond Title 24	20.00
Commercial Increase Energy Efficiency Beyond Title 24	20.00
Percent of Residential Landscape Equipment that are Electrically Powered and have Electrical Outlets at the Front and Rear of Residences	20.00
For Nonresidential Interior Use Low VOC Coating	10.00
For Nonresidential Exterior Use Low VOC Coating	10.00

Area Source Changes to Defaults

- Percent residential using natural gas changed from 60% to 100%
- Percentage of residences with wood stoves changed from 35% to 0%
- Percentage of residences with wood fireplaces changed from 10% to 0%
- Percentage of residences with natural gas fireplaces changed from 55% to 50%

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/lowhouse general	43.44	63.98	496.74	0.53	109.37	20.81	53,668.36
Quality resturant	19.37	33.34	251.02	0.27	57.27	10.88	27,897.83
Hotel	1.73	1.69	12.67	0.01	2.90	0.55	1,410.58
Strip mall	15.86	26.78	200.97	0.22	46.04	8.75	22,409.02
General office building	0.16	0.26	1.95	0.00	0.44	0.08	214.02
TOTALS (lbs/day, unmitigated)	80.56	126.05	963.35	1.03	216.02	41.07	105,599.81

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/lowhouse general	42.87	63.01	489.23	0.52	107.72	20.50	52,857.87
Quality resturant	19.26	33.13	249.49	0.27	56.92	10.82	27,727.89
Hotel	1.73	1.68	12.59	0.01	2.88	0.55	1,401.99
Strip mall	15.77	26.62	199.75	0.22	45.76	8.70	22,272.52
General office building	0.16	0.25	1.94	0.00	0.44	0.08	212.72
TOTALS (lbs/day, mitigated)	79.79	124.69	953.00	1.02	213.72	40.65	104,472.99

Operational Mitigation Options Selected

Residential Mitigation Measures

Residential Mix of Uses Mitigation

NOTE this mitigation measure INCREASES Trips by 1.82%

Operational Mitigation Options Selected

Residential Mitigation Measures

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Inputs Selected:

The number of housing units within a 1/2 mile radius of the project, plus the number of residential units included in the project are 1100.

The employment for the study area (within a 1/2 mile radius of the project) is 85.

Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2% (calculated as a % of 9.57 trips/day))

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43% (calculated as a % of 9.57 trips/day)

Note that the above percent is applied to a baseline of 9.57 and that product is subtracted from the Unmitigated Trips

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

Operational Mitigation Options Selected

Residential Mitigation Measures

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 6

The Number of Dedicated Daily Shuttle Trips is 4

Nonresidential Mitigation Measures

Non-Residential Mix of Uses Mitigation

NOTE this mitigation measure INCREASES Trips by 1.82%

Inputs Selected:

The number of housing units within a 1/2 mile radius of the project, plus the number of residential units included in the project are 1100.

The employment for the study area (within a 1/2 mile radius of the project) is 85.

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.43%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 6

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Nonresidential Mitigation Measures

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site Is 6

The Number of Dedicated Daily Shuttle Trips Is 4

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2012 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/kownhouse general	68.75	3.86	dwelling units	1,100.00	4,246.00	63,690.00
Quality restaurant		55.60	1000 sq ft	40.00	2,224.00	33,360.00
Hotel		0.75	rooms	150.00	112.50	1,687.50
Strip mall		17.88	1000 sq ft	100.00	1,788.00	26,820.00
General office building		11.33	1000 sq ft	1.50	16.99	254.92
					8,387.49	125,812.42

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.8	0.7	99.1	0.2
Light Truck < 3750 lbs	12.8	1.6	95.3	3.1
Light Truck 3751-5750 lbs	19.8	0.5	99.5	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0

Vehicle Type	Vehicle Fleet Mix					
	Percent Type	Non-Catalyst	Catalyst	Diesel		
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2		
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0		
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0		
Heavy-Heavy Truck 33,001-60,000 lbs	0.4	0.0	0.0	100.0		
Other Bus	0.1	0.0	0.0	100.0		
Urban Bus	0.1	0.0	0.0	100.0		
Motorcycle	3.2	59.4	40.6	0.0		
School Bus	0.1	0.0	0.0	100.0		
Motor Home	0.6	0.0	83.3	16.7		

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Quality restaurant	8.0	4.0	88.0
Hotel	5.0	2.5	92.5
Strip mall	2.0	1.0	97.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
General office building				35.0	17.5	47.5

Operational Changes to Defaults

- Ambient summer temperature changed from 85 degrees F to 70 degrees F
- Ambient winter temperature changed from 40 degrees F to 50 degrees F
- Home-based work urban trip length changed from 10.8 miles to 15 miles
- Home-based shop urban trip length changed from 7.3 miles to 15 miles
- Home-based other urban trip length changed from 7.5 miles to 15 miles
- Commercial-based commute urban trip length changed from 9.5 miles to 15 miles
- Commercial-based non-work urban trip length changed from 7.35 miles to 15 miles
- Commercial-based customer urban trip length changed from 7.35 miles to 15 miles

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equin\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt D Cumulative Operation.urb924

Project Name: Point Molate - Alt D Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	11.69	3.00	2.19	0.00	0.01	0.01	3,785.78
TOTALS (tons/year, mitigated)	11.62	2.40	1.89	0.00	0.00	0.00	3,029.26
Percent Reduction	0.60	20.00	13.70	Nan	100.00	100.00	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	7.67	9.22	79.53	0.19	39.31	7.40	19,023.66
TOTALS (tons/year, mitigated)	7.59	9.13	78.67	0.18	38.89	7.32	18,820.66
Percent Reduction	1.04	0.98	1.08	5.26	1.07	1.08	1.07

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	19.36	12.22	81.72	0.19	39.32	7.41	22,809.44
TOTALS (tons/year, mitigated)	19.21	11.53	80.56	0.18	38.89	7.32	21,849.92
Percent Reduction	0.77	5.65	1.42	5.26	1.09	1.21	4.21

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Versions9a\Projects\Point Molate 9.2.4\Point Molate - Alt D Cumulative Operation.urb924

Project Name: Point Molate - Alt D Cumulative Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

12/29/2008 10:32:56 AM

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	64.37	16.48	16.06	0.00	0.05	0.05	20,740.34
TOTALS (lbs/day, mitigated)	64.00	13.20	14.45	0.00	0.04	0.04	16,595.02
Percent Reduction	0.57	19.90	10.02	NaN	20.00	20.00	19.99

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	40.18	47.13	424.12	1.02	215.38	40.53	104,770.47
TOTALS (lbs/day, mitigated)	39.79	46.63	419.56	1.01	213.08	40.10	103,652.49
Percent Reduction	0.97	1.06	1.08	0.98	1.07	1.06	1.07

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	104.55	63.61	440.18	1.02	215.43	40.58	125,510.81
TOTALS (lbs/day, mitigated)	103.79	59.83	434.01	1.01	213.12	40.14	120,247.51
Percent Reduction	0.73	5.94	1.40	0.98	1.07	1.08	4.19

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.25	16.39	8.04	0.00	0.03	0.03	20,726.60
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	53.82						
Architectural Coatings	8.65						
TOTALS (lbs/day, unmitigated)	64.37	16.48	16.06	0.00	0.05	0.05	20,740.34

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.00	13.11	6.43	0.00	0.02	0.02	16,581.28
Hearth - No Summer Emissions							
Landscape	0.65	0.09	8.02	0.00	0.02	0.02	13.74
Consumer Products	53.82						
Architectural Coatings	8.53						
TOTALS (lbs/day, mitigated)	64.00	13.20	14.45	0.00	0.04	0.04	16,595.02

Area Source Changes to Defaults

Percent residential using natural gas changed from 60% to 100%

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 50%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	21.79	23.91	218.45	0.52	109.05	20.54	53,246.76
Quality resturant	9.52	12.47	110.63	0.27	57.10	10.74	27,678.79
Hotel	0.94	0.63	5.59	0.01	2.89	0.54	1,399.51
Strip mall	7.85	10.02	88.59	0.22	45.90	8.63	22,233.07
General office building	0.08	0.10	0.86	0.00	0.44	0.08	212.34
TOTALS (lbs/day, unmitigated)	40.18	47.13	424.12	1.02	215.38	40.53	104,770.47

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	21.51	23.55	215.15	0.51	107.41	20.23	52,442.63
Quality resturant	9.46	12.40	109.95	0.27	56.75	10.67	27,510.19
Hotel	0.94	0.63	5.55	0.01	2.87	0.54	1,390.98
Strip mall	7.80	9.96	88.05	0.22	45.62	8.58	22,097.64
General office building	0.08	0.09	0.86	0.00	0.43	0.08	211.05
TOTALS (lbs/day, mitigated)	39.79	46.63	419.56	1.01	213.08	40.10	103,652.49

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	68.75	3.86 dwelling units	1000 sq ft	1,100.00	4,246.00	63,690.00
Quality resturant		55.60	1000 sq ft	40.00	2,224.00	33,360.00
Hotel		0.75	rooms	150.00	112.50	1,687.50
Strip mall		17.88	1000 sq ft	100.00	1,788.00	26,820.00
General office building		11.33	1000 sq ft	1.50	16.99	254.92
					8,387.49	125,812.42

Vehicle Type	Vehicle Fleet Mix					
	Percent Type	Non-Catalyst	Catalyst	Diesel	Travel Conditions	
					Residential	Commercial
Light Auto	54.0	0.0	100.0	0.0		
Light Truck < 3750 lbs	12.6	0.0	99.2	0.8		
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0		
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0		
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2		
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0		
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0		
Heavy-Heavy Truck 33,001-60,000 lbs	0.3	0.0	0.0	100.0		
Other Bus	0.1	0.0	0.0	100.0		
Urban Bus	0.1	0.0	0.0	100.0		
Motorcycle	3.2	34.4	65.6	0.0		
School Bus	0.1	0.0	0.0	100.0		
Motor Home	0.6	0.0	83.3	16.7		
<u>Travel Conditions</u>						
					Residential	Commercial
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)	Travel Conditions				Commuter	Commercial	
	Home-Work	Residential	Home-Shop	Home-Other		Non-Work	Customer
Quality restaurant					8.0	4.0	88.0
Hotel					5.0	2.5	92.5
Strip mall					2.0	1.0	97.0
General office building					35.0	17.5	47.5

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt E Construction and Operation.urb924

Project Name: Point Molate - Alt E Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (tons/year unmitigated)	2.48	12.36	57.54	0.06	0.31	0.45	0.76	0.11	0.41	0.52	5,905.91
2009 TOTALS (tons/year mitigated)	2.48	12.00	57.54	0.06	0.31	0.37	0.68	0.11	0.33	0.44	5,905.91
Percent Reduction	0.00	2.89	0.00	0.00	0.00	17.76	10.52	0.00	18.22	14.29	0.00
2010 TOTALS (tons/year unmitigated)	1.62	8.08	37.19	0.04	0.22	0.31	0.53	0.08	0.28	0.36	4,124.60
2010 TOTALS (tons/year mitigated)	1.62	7.79	37.19	0.04	0.22	0.25	0.46	0.08	0.22	0.30	4,124.60
Percent Reduction	0.00	3.50	0.00	0.00	0.00	20.91	12.36	0.00	21.45	16.81	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	1.50	2.15	15.52	0.01	2.85	0.54	1,385.00
TOTALS (tons/year, mitigated)	1.50	2.14	15.50	0.01	2.85	0.54	1,383.19
Percent Reduction	0.00	0.47	0.13	0.00	0.00	0.00	0.13

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	1.50	2.15	15.52	0.01	2.85	0.54	1,385.00

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt E Construction and Operation.urb924

Project Name: Point Molate - Alt E Construction and Operation

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2009 TOTALS (lbs/day unmitigated)	32.24	160.46	747.21	0.74	4.04	5.87	9.91	1.45	5.27	6.71	76,700.16
2009 TOTALS (lbs/day mitigated)	32.24	155.82	747.21	0.74	4.04	4.83	8.87	1.45	4.31	5.75	76,700.16
2010 TOTALS (lbs/day unmitigated)	33.05	167.05	704.98	0.74	4.07	7.13	11.19	1.46	6.42	7.88	78,596.93
2010 TOTALS (lbs/day mitigated)	33.05	158.73	704.98	0.74	4.07	5.02	9.08	1.46	4.48	5.93	78,596.93

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	7.99	10.96	81.55	0.07	15.64	2.98	7,625.86
TOTALS (lbs/day, mitigated)	7.98	10.94	81.45	0.07	15.62	2.98	7,615.93
Percent Reduction	0.13	0.18	0.12	0.00	0.13	0.00	0.13

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	7.99	10.96	81.55	0.07	15.64	2.98	7,625.86

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 6/1/2009-12/31/2009 Active Days: 154	<u>32.24</u>	<u>160.46</u>	<u>747.21</u>	<u>0.74</u>	<u>4.04</u>	<u>5.87</u>	<u>9.91</u>	<u>1.45</u>	<u>5.27</u>	<u>6.71</u>	<u>76,700.16</u>
Building 06/01/2009-05/31/2010	32.24	160.46	747.21	0.74	4.04	5.87	9.91	1.45	5.27	6.71	76,700.16
Building Off Road Diesel	3.12	16.72	9.91	0.00	0.00	1.13	1.13	0.00	1.04	1.04	1,563.66
Building Vendor Trips	5.29	87.95	45.89	0.12	0.49	2.98	3.47	0.16	2.74	2.90	12,929.47
Building Worker Trips	23.84	55.78	691.41	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,207.03
Time Slice 1/1/2010-2/26/2010 Active Days: 41	<u>29.48</u>	<u>146.32</u>	<u>692.36</u>	<u>0.74</u>	<u>4.04</u>	<u>5.49</u>	<u>9.53</u>	<u>1.45</u>	<u>4.91</u>	<u>6.36</u>	<u>76,661.21</u>
Building 06/01/2009-05/31/2010	29.48	146.32	692.36	0.74	4.04	5.49	9.53	1.45	4.91	6.36	76,661.21
Building Off Road Diesel	2.93	15.87	9.62	0.00	0.00	1.05	1.05	0.00	0.96	0.96	1,563.66
Building Vendor Trips	4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Trips	21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94
Time Slice 3/1/2010-4/1/2010 Active Days: 24	<u>33.05</u>	<u>167.05</u>	<u>704.98</u>	<u>0.74</u>	<u>4.07</u>	<u>7.13</u>	<u>11.19</u>	<u>1.46</u>	<u>6.42</u>	<u>7.88</u>	<u>78,596.93</u>
Asphalt 03/01/2010-04/01/2010	3.57	20.73	12.62	0.01	0.02	1.64	1.67	0.01	1.51	1.52	1,935.71
Paving Off-Gas	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.89	17.44	9.84	0.00	0.00	1.53	1.53	0.00	1.41	1.41	1,347.72
Paving On Road Diesel	0.18	3.14	0.91	0.00	0.01	0.10	0.12	0.00	0.10	0.10	405.96
Paving Worker Trips	0.06	0.15	1.87	0.00	0.01	0.01	0.02	0.00	0.00	0.01	182.04
Building 06/01/2009-05/31/2010	<u>29.48</u>	<u>146.32</u>	<u>692.36</u>	<u>0.74</u>	<u>4.04</u>	<u>5.49</u>	<u>9.53</u>	<u>1.45</u>	<u>4.91</u>	<u>6.36</u>	<u>76,661.21</u>
Building Off Road Diesel	2.93	15.87	9.62	0.00	0.00	1.05	1.05	0.00	0.96	0.96	1,563.66
Building Vendor Trips	4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Trips	21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94

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Time Slice	Active Days	29.48	146.32	692.36	0.74	4.04	5.49	9.53	1.45	4.91	6.36	76,661.21
Building 06/01/2009-05/31/2010		29.48	146.32	692.36	0.74	4.04	5.49	9.53	1.45	4.91	6.36	76,661.21
Building Off Road Diesel		2.93	15.87	9.62	0.00	0.00	1.05	1.05	0.00	0.96	0.96	1,563.66
Building Vendor Tips		4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Tips		21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94

Phase Assumptions

Phase: Paving 3/1/2010 - 4/1/2010 - Type Your Description Here

Acres to be Paved: 4

Off-Road Equipment:

- 1 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 6/1/2009 - 5/31/2010 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

12/29/2008 10:33:38 AM

	ROG	NOX	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2009-12/31/2009 Active Days: 154	<u>32.24</u>	<u>155.82</u>	<u>747.21</u>	<u>0.74</u>	<u>4.04</u>	<u>4.83</u>	<u>8.87</u>	<u>1.45</u>	<u>4.31</u>	<u>5.75</u>	<u>76,700.16</u>
Building 06/01/2009-05/31/2010	32.24	155.82	747.21	0.74	4.04	4.83	8.87	1.45	4.31	5.75	76,700.16
Building Off Road Diesel	3.12	12.08	9.91	0.00	0.00	0.08	0.08	0.00	0.08	0.08	1,563.66
Building Vendor Trips	5.29	87.95	45.89	0.12	0.49	2.98	3.47	0.16	2.74	2.90	12,929.47
Building Worker Trips	23.84	55.78	691.41	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,207.03
Time Slice 1/1/2010-2/26/2010 Active Days: 41	<u>29.48</u>	<u>141.92</u>	<u>692.36</u>	<u>0.74</u>	<u>4.04</u>	<u>4.52</u>	<u>8.56</u>	<u>1.45</u>	<u>4.02</u>	<u>5.47</u>	<u>76,661.21</u>
Building 06/01/2009-05/31/2010	29.48	141.92	692.36	0.74	4.04	4.52	8.56	1.45	4.02	5.47	76,661.21
Building Off Road Diesel	2.93	11.46	9.62	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,563.66
Building Vendor Trips	4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Trips	21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94
Time Slice 3/1/2010-4/1/2010 Active Days: 24	<u>33.05</u>	<u>158.73</u>	<u>704.98</u>	<u>0.74</u>	<u>4.07</u>	<u>5.02</u>	<u>9.08</u>	<u>1.46</u>	<u>4.48</u>	<u>5.93</u>	<u>78,596.93</u>
Asphalt 03/01/2010-04/01/2010	3.57	16.82	12.62	0.01	0.02	0.50	0.52	0.01	0.46	0.47	1,935.71
Paving Off-Gas	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.89	13.53	9.84	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,347.72
Paving On Road Diesel	0.18	3.14	0.91	0.00	0.01	0.10	0.12	0.00	0.10	0.10	405.96
Paving Worker Trips	0.06	0.15	1.87	0.00	0.01	0.01	0.02	0.00	0.00	0.01	182.04
Building 06/01/2009-05/31/2010	<u>29.48</u>	<u>141.92</u>	<u>692.36</u>	<u>0.74</u>	<u>4.04</u>	<u>4.52</u>	<u>8.56</u>	<u>1.45</u>	<u>4.02</u>	<u>5.47</u>	<u>76,661.21</u>
Building Off Road Diesel	2.93	11.46	9.62	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,563.66
Building Vendor Trips	4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Trips	21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94

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Time Slice 4/22/2010-5/31/2010 Active Days: 42	29.48	141.92	692.36	0.74	4.04	4.52	8.56	1.45	4.02	5.47	76,661.21
Building 06/01/2009-05/31/2010	29.48	141.92	692.36	0.74	4.04	4.52	8.56	1.45	4.02	5.47	76,661.21
Building Off Road Diesel	2.93	11.46	9.62	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,563.66
Building Vendor Trips	4.92	79.61	42.86	0.12	0.49	2.68	3.16	0.16	2.46	2.62	12,929.61
Building Worker Trips	21.62	50.84	639.88	0.61	3.55	1.77	5.32	1.28	1.49	2.77	62,167.94

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Paving 3/1/2010 - 4/1/2010 - Type Your Description Here

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Paving Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

The following mitigation measures apply to Phase: Building Construction 6/1/2009 - 5/31/2010 - Default Building Construction Description
For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Cranes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Generator Sets, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Generator Sets, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Generator Sets, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Tractors/loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/loaders/Backhoes, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Diesel Oxidation Catalyst 15% mitigation reduces emissions by:

NOX: 15%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Parkland	7.99	10.96	81.55	0.07	15.64	2.98	7,625.86
TOTALS (lbs/day, unmitigated)	7.99	10.96	81.55	0.07	15.64	2.98	7,625.86

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Parkland	7.98	10.94	81.45	0.07	15.62	2.98	7,615.93
TOTALS (lbs/day, mitigated)	7.98	10.94	81.45	0.07	15.62	2.98	7,615.93

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

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Nonresidential Mitigation Measures

Percent Reduction in Trips is 0.1%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 4

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 4

The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 0.03%

Inputs Selected:

The Number of Intersections per Square Mile is 0

The Percent of Streets with Sidewalks on One Side is 0%

The Percent of Streets with Sidewalks on Both Sides is 0%

The Percent of Arterials/Collectors with Bike Lanes or where Suitable,

Direct Parallel Routes Exist is 1%

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Parkland	0.5	0.3	99.3
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Operational Changes to Defaults

- Ambient summer temperature changed from 85 degrees F to 70 degrees F
- Ambient winter temperature changed from 40 degrees F to 50 degrees F
- Home-based work urban trip length changed from 10.8 miles to 15 miles
- Home-based shop urban trip length changed from 7.3 miles to 15 miles
- Home-based other urban trip length changed from 7.5 miles to 15 miles
- Commercial-based commute urban trip length changed from 9.5 miles to 15 miles
- Commercial-based non-work urban trip length changed from 7.35 miles to 15 miles
- Commercial-based customer urban trip length changed from 7.35 miles to 15 miles

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt E Cumulative.urb924

Project Name: Point Molate - Alt E Cumulative

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.64	0.67	5.66	0.01	2.84	0.53	1,370.44
TOTALS (tons/year, mitigated)	0.64	0.67	5.66	0.01	2.84	0.53	1,368.65
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.13

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.64	0.67	5.66	0.01	2.84	0.53	1,370.44

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Point Molate 9.2.4\Point Molate - Alt E Cumulative.urb924

Project Name: Point Molate - Alt E Cumulative

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	3.48	3.41	30.15	0.07	15.58	2.93	7,547.69
TOTALS (lbs/day, mitigated)	3.48	3.41	30.11	0.07	15.56	2.93	7,537.85
Percent Reduction	0.00	0.00	0.13	0.00	0.13	0.00	0.13

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	3.48	3.41	30.15	0.07	15.58	2.93	7,547.69

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Parkland	3.48	3.41	30.15	0.07	15.58	2.93	7,547.69
TOTALS (lbs/day, unmitigated)	3.48	3.41	30.15	0.07	15.58	2.93	7,547.69

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Parkland	3.48	3.41	30.11	0.07	15.56	2.93	7,537.85
TOTALS (lbs/day, mitigated)	3.48	3.41	30.11	0.07	15.56	2.93	7,537.85

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2025 Temperature (F): 70 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Parkland		2.28	acres	280.00	638.40	9,101.99
					638.40	9,101.99

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.0	0.0	100.0	0.0

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Vehicle Type	Vehicle Fleet Mix						
	Percent Type	Non-Catalyst			Catalyst		Diesel
Light Truck < 3750 lbs	12.6	0.0	0.0	99.2	0.8	0.0	0.8
Light Truck 3751-5750 lbs	19.9	0.0	100.0	100.0	0.0	0.0	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	100.0	0.0	0.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	77.8	22.2	0.0	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0	50.0	0.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	20.0	80.0	0.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.3	0.0	0.0	0.0	100.0	0.0	100.0
Other Bus	0.1	0.0	0.0	0.0	100.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	0.0	100.0	0.0	100.0
Motorcycle	3.2	34.4	65.6	65.6	0.0	0.0	0.0
School Bus	0.1	0.0	0.0	0.0	100.0	0.0	100.0
Motor Home	0.6	0.0	83.3	83.3	16.7	0.0	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	15.0	15.0	15.0	15.0	15.0	15.0
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Parkland				0.5	0.3	99.3

