

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase I Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2012 TOTALS (lbs/day unmitigated)	61.37	81.77	81.30	0.08	328.04	4.89	332.93	68.51	4.50	73.01	12,746.95
2012 TOTALS (lbs/day mitigated)	12.15	81.77	81.30	0.08	35.12	4.89	40.01	7.34	4.50	11.84	12,746.95
2013 TOTALS (lbs/day unmitigated)	60.74	44.52	75.67	0.08	40.40	2.37	42.78	8.50	2.16	10.66	12,749.18
2013 TOTALS (lbs/day mitigated)	35.68	44.52	75.67	0.08	4.68	2.37	7.05	1.04	2.16	3.20	12,749.18
2014 TOTALS (lbs/day unmitigated)	57.73	21.81	59.06	0.08	0.40	1.23	1.63	0.14	1.12	1.26	10,401.55
2014 TOTALS (lbs/day mitigated)	22.11	21.81	59.06	0.08	0.40	1.23	1.63	0.14	1.12	1.26	10,401.55

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

4/14/2010 11:46:02 AM

	<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>
Time Slice 8/3/2012-8/16/2012 Active Days: 10	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Demolition 08/03/2012- 09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:02 AM

Time Slice 8/17/2012-9/3/2012 Active Days: 12	7.49	55.18	35.46	0.00	40.01	3.35	43.36	8.36	3.08	11.44	5,858.70
Demolition 08/03/2012- 09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:02 AM

Time Slice 9/4/2012-9/5/2012 Active Days: 2	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:03 AM**

Time Slice 9/6/2012-9/7/2012 Active Days: 2	4.47	32.26	20.76	0.00	40.01	1.97	41.98	8.36	1.81	10.17	3,528.37
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 9/10/2012-9/12/2012 Active Days: 3	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 9/13/2012-9/14/2012 Active Days: 2	4.47	32.26	20.76	0.00	40.01	1.97	41.98	8.36	1.81	10.17	3,528.37
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 9/17/2012-9/17/2012	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Active Days: 1											
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 9/18/2012-9/19/2012 Active Days: 2	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/20/2012-9/21/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 9/24/2012-9/26/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/27/2012-9/28/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 10/1/2012-10/3/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/4/2012-10/5/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 10/8/2012-10/10/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/11/2012-10/12/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:03 AM**

Time Slice 10/15/2012-10/17/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/18/2012-10/18/2012 Active Days: 1	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 10/19/2012-10/19/2012 Active Days: 1	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 10/22/2012-10/24/2012 Active Days: 3	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:03 AM**

Time Slice 10/25/2012-10/26/2012 Active Days: 2	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 10/29/2012-10/31/2012 Active Days: 3	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:03 AM**

Time Slice 11/1/2012-11/2/2012 Active Days: 2	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 11/5/2012-11/6/2012 Active Days: 2	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 11/7/2012-11/20/2012 Active Days: 10	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 11/21/2012-11/22/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:03 AM

Time Slice 11/23/2012-12/3/2012 Active Days: 7	8.15	48.05	80.81	0.08	40.40	2.60	43.00	8.50	2.37	10.87	12,683.39
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 12/4/2012-12/31/2012 Active Days: 20	<b>61.37</b>	48.07	<b>81.30</b>	<b>0.08</b>	40.40	2.60	43.01	8.50	2.38	10.87	<u>12,746.95</u>
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Coating 12/04/2012-08/15/2014	53.22	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36



4/14/2010 11:46:03 AM

Time Slice 1/1/2014-7/25/2014	<u>57.73</u>	<u>21.81</u>	<u>59.06</u>	<u>0.08</u>	<u>0.40</u>	<u>1.23</u>	<u>1.63</u>	<u>0.14</u>	<u>1.12</u>	<u>1.26</u>	<u>10,401.55</u>
Active Days: 148											
Building 11/23/2012-07/25/2014	4.51	21.79	58.65	0.08	0.40	1.23	1.63	0.14	1.11	1.26	10,337.94
Building Off Road Diesel	2.74	13.86	10.34	0.00	0.00	0.86	0.86	0.00	0.79	0.79	1,746.33
Building Vendor Trips	0.48	5.72	4.79	0.02	0.07	0.22	0.29	0.02	0.20	0.22	1,839.79
Building Worker Trips	1.29	2.21	43.52	0.07	0.33	0.15	0.48	0.12	0.12	0.24	6,751.82
Coating 12/04/2012-08/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Time Slice 7/28/2014-8/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Active Days: 15											
Coating 12/04/2012-08/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60

Phase Assumptions

Phase: Demolition 8/3/2012 - 9/3/2012 - Phase I Demolition

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

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: Demolition 8/17/2012 - 9/17/2012 - Phase I On-site Lumber Mill

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Page: 24

**4/14/2010 11:46:04 AM**

Off-Road Equipment:

- 1 Other Equipment (36 hp) operating at a 0.42 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 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

Total Acres Disturbed: 57.6

Maximum Daily Acreage Disturbed: 14.4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Crushing/Processing Equip (150 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Other Equipment (75 hp) operating at a 0.8 load factor for 8 hours per day
- 1 Other Material Handling Equipment (75 hp) operating at a 0.59 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
- 1 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 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

Total Acres Disturbed: 95

Maximum Daily Acreage Disturbed: 2

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 6 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 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

4/14/2010 11:46:04 AM

Phase: Paving 10/19/2012 - 11/20/2012 - Phase I Paving

Acres to be Paved: 11.7

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 11/23/2012 - 7/25/2014 - Phase I Building

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 12/4/2012 - 8/15/2014 - Phase I Coating

- 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

<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>
------------	------------	-----------	------------	------------------	---------------------	-------------	-------------------	----------------------	--------------	------------

4/14/2010 11:46:04 AM

Time Slice 8/3/2012-8/16/2012 Active Days: 10	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Demolition 08/03/2012-09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 8/17/2012-9/3/2012 Active Days: 12	7.49	55.18	35.46	0.00	4.29	3.35	7.64	0.90	3.08	3.98	5,858.70
Demolition 08/03/2012-09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 9/4/2012-9/5/2012 Active Days: 2	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:04 AM**

Time Slice 9/6/2012-9/7/2012 Active Days: 2	4.47	32.26	20.76	0.00	4.29	1.97	6.26	0.90	1.81	2.71	3,528.37
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 9/10/2012-9/12/2012 Active Days: 3	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:46:04 AM**

Time Slice 9/13/2012-9/14/2012 Active Days: 2	4.47	32.26	20.76	0.00	4.29	1.97	6.26	0.90	1.81	2.71	3,528.37
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 9/17/2012-9/17/2012	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Active Days: 1											
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 9/18/2012-9/19/2012 Active Days: 2	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/20/2012-9/21/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 9/24/2012-9/26/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/27/2012-9/28/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/1/2012-10/3/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/4/2012-10/5/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/8/2012-10/10/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/11/2012-10/12/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/15/2012-10/17/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/18/2012-10/18/2012 Active Days: 1	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/19/2012-10/19/2012 Active Days: 1	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/22/2012-10/24/2012 Active Days: 3	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/25/2012-10/26/2012 Active Days: 2	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 10/29/2012-10/31/2012 Active Days: 3	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 11/1/2012-11/2/2012 Active Days: 2	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 11/5/2012-11/6/2012 Active Days: 2	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 11/7/2012-11/20/2012 Active Days: 10	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 11/21/2012-11/22/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:46:04 AM

Time Slice 11/23/2012-12/3/2012 Active Days: 7	8.15	48.05	80.81	0.08	4.68	2.60	7.28	1.04	2.37	3.41	12,683.39
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 12/4/2012-12/31/2012 Active Days: 20	10.32	48.07	<b>81.30</b>	<b>0.08</b>	4.68	2.60	7.29	1.04	2.38	3.41	<u>12,746.95</u>
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Coating 12/04/2012-08/15/2014	2.17	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Architectural Coating	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36



**4/14/2010 11:46:04 AM**

Time Slice 1/1/2014-7/25/2014	<u>22.11</u>	<u>21.81</u>	<u>59.06</u>	<u>0.08</u>	<u>0.40</u>	<u>1.23</u>	<u>1.63</u>	<u>0.14</u>	<u>1.12</u>	<u>1.26</u>	<u>10,401.55</u>
Active Days: 148											
Building 11/23/2012-07/25/2014	4.51	21.79	58.65	0.08	0.40	1.23	1.63	0.14	1.11	1.26	10,337.94
Building Off Road Diesel	2.74	13.86	10.34	0.00	0.00	0.86	0.86	0.00	0.79	0.79	1,746.33
Building Vendor Trips	0.48	5.72	4.79	0.02	0.07	0.22	0.29	0.02	0.20	0.22	1,839.79
Building Worker Trips	1.29	2.21	43.52	0.07	0.33	0.15	0.48	0.12	0.12	0.24	6,751.82
Coating 12/04/2012-08/15/2014	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Time Slice 7/28/2014-8/15/2014	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Active Days: 15											
Coating 12/04/2012-08/15/2014	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

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 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%

The following mitigation measures apply to Phase: Mass Grading 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

Page: 47

**4/14/2010 11:46:04 AM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/4/2012 - 8/15/2014 - Phase I Coating

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:

ROG: 10%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase I Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2012 TOTALS (lbs/day unmitigated)	61.37	81.77	81.30	0.08	328.04	4.89	332.93	68.51	4.50	73.01	12,746.95
2012 TOTALS (lbs/day mitigated)	12.15	81.77	81.30	0.08	35.12	4.89	40.01	7.34	4.50	11.84	12,746.95
2013 TOTALS (lbs/day unmitigated)	60.74	44.52	75.67	0.08	40.40	2.37	42.78	8.50	2.16	10.66	12,749.18
2013 TOTALS (lbs/day mitigated)	35.68	44.52	75.67	0.08	4.68	2.37	7.05	1.04	2.16	3.20	12,749.18
2014 TOTALS (lbs/day unmitigated)	57.73	21.81	59.06	0.08	0.40	1.23	1.63	0.14	1.12	1.26	10,401.55
2014 TOTALS (lbs/day mitigated)	22.11	21.81	59.06	0.08	0.40	1.23	1.63	0.14	1.12	1.26	10,401.55

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

4/14/2010 11:48:15 AM

	<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>
Time Slice 8/3/2012-8/16/2012 Active Days: 10	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Demolition 08/03/2012- 09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:15 AM

Time Slice 8/17/2012-9/3/2012 Active Days: 12	7.49	55.18	35.46	0.00	40.01	3.35	43.36	8.36	3.08	11.44	5,858.70
Demolition 08/03/2012- 09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/4/2012-9/5/2012 Active Days: 2	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:16 AM**

Time Slice 9/6/2012-9/7/2012 Active Days: 2	4.47	32.26	20.76	0.00	40.01	1.97	41.98	8.36	1.81	10.17	3,528.37
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/10/2012-9/12/2012 Active Days: 3	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/13/2012-9/14/2012 Active Days: 2	4.47	32.26	20.76	0.00	40.01	1.97	41.98	8.36	1.81	10.17	3,528.37
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/17/2012-9/17/2012	9.76	73.13	45.44	0.00	328.02	4.29	332.31	68.51	3.95	72.45	7,875.84
Active Days: 1											
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/18/2012-9/19/2012 Active Days: 2	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/20/2012-9/21/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 9/24/2012-9/26/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/27/2012-9/28/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 10/1/2012-10/3/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/4/2012-10/5/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:16 AM

Time Slice 10/8/2012-10/10/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/11/2012-10/12/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:16 AM**

Time Slice 10/15/2012-10/17/2012 Active Days: 3	8.01	62.85	36.98	0.00	328.01	3.39	331.41	68.50	3.12	71.63	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/18/2012-10/18/2012 Active Days: 1	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:16 AM**

Time Slice 10/19/2012-10/19/2012 Active Days: 1	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 10/22/2012-10/24/2012 Active Days: 3	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 10/25/2012-10/26/2012 Active Days: 2	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 10/29/2012-10/31/2012 Active Days: 3	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 11/1/2012-11/2/2012 Active Days: 2	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 11/5/2012-11/6/2012 Active Days: 2	12.15	<b>81.77</b>	48.28	0.01	<b>328.04</b>	<b>4.89</b>	<b>332.93</b>	<b>68.51</b>	<b>4.50</b>	<b>73.01</b>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	288.01	2.32	290.33	60.15	2.13	62.28	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	288.00	0.00	288.00	60.15	0.00	60.15	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 11/7/2012-11/20/2012 Active Days: 10	6.86	40.90	23.60	0.01	40.03	2.57	42.60	8.36	2.36	10.73	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 11/21/2012-11/22/2012 Active Days: 2	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:17 AM

Time Slice 11/23/2012-12/3/2012 Active Days: 7	8.15	48.05	80.81	0.08	40.40	2.60	43.00	8.50	2.37	10.87	12,683.39
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 12/4/2012-12/31/2012 Active Days: 20	<b>61.37</b>	48.07	<b>81.30</b>	<b>0.08</b>	40.40	2.60	43.01	8.50	2.38	10.87	<u>12,746.95</u>
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Coating 12/04/2012-08/15/2014	53.22	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	40.00	1.07	41.08	8.36	0.99	9.34	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36



**4/14/2010 11:48:17 AM**

Time Slice 1/1/2014-7/25/2014	<u>57.73</u>	<u>21.81</u>	<u>59.06</u>	<u>0.08</u>	<u>0.40</u>	<u>1.23</u>	<u>1.63</u>	<u>0.14</u>	<u>1.12</u>	<u>1.26</u>	<u>10,401.55</u>
Active Days: 148											
Building 11/23/2012-07/25/2014	4.51	21.79	58.65	0.08	0.40	1.23	1.63	0.14	1.11	1.26	10,337.94
Building Off Road Diesel	2.74	13.86	10.34	0.00	0.00	0.86	0.86	0.00	0.79	0.79	1,746.33
Building Vendor Trips	0.48	5.72	4.79	0.02	0.07	0.22	0.29	0.02	0.20	0.22	1,839.79
Building Worker Trips	1.29	2.21	43.52	0.07	0.33	0.15	0.48	0.12	0.12	0.24	6,751.82
Coating 12/04/2012-08/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Time Slice 7/28/2014-8/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Active Days: 15											
Coating 12/04/2012-08/15/2014	53.22	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	53.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60

Phase Assumptions

Phase: Demolition 8/3/2012 - 9/3/2012 - Phase I Demolition  
 Building Volume Total (cubic feet): 0  
 Building Volume Daily (cubic feet): 0  
 On Road Truck Travel (VMT): 0  
 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: Demolition 8/17/2012 - 9/17/2012 - Phase I On-site Lumber Mill  
 Building Volume Total (cubic feet): 0  
 Building Volume Daily (cubic feet): 0  
 On Road Truck Travel (VMT): 0

Page: 24

**4/14/2010 11:48:18 AM**

Off-Road Equipment:

- 1 Other Equipment (36 hp) operating at a 0.42 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 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

Total Acres Disturbed: 57.6

Maximum Daily Acreage Disturbed: 14.4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Crushing/Processing Equip (150 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Other Equipment (75 hp) operating at a 0.8 load factor for 8 hours per day
- 1 Other Material Handling Equipment (75 hp) operating at a 0.59 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
- 1 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 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

Total Acres Disturbed: 95

Maximum Daily Acreage Disturbed: 2

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 6 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 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

4/14/2010 11:48:18 AM

Phase: Paving 10/19/2012 - 11/20/2012 - Phase I Paving

Acres to be Paved: 11.7

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 11/23/2012 - 7/25/2014 - Phase I Building

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 12/4/2012 - 8/15/2014 - Phase I Coating

- 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 Winter Pounds Per Day, Mitigated

<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>
------------	------------	-----------	------------	------------------	---------------------	-------------	-------------------	----------------------	--------------	------------

4/14/2010 11:48:18 AM

Time Slice 8/3/2012-8/16/2012 Active Days: 10	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Demolition 08/03/2012-09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 8/17/2012-9/3/2012 Active Days: 12	7.49	55.18	35.46	0.00	4.29	3.35	7.64	0.90	3.08	3.98	5,858.70
Demolition 08/03/2012-09/03/2012	3.03	22.91	14.70	0.00	0.00	1.38	1.38	0.00	1.27	1.27	2,330.33
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	3.00	22.87	13.91	0.00	0.00	1.37	1.37	0.00	1.26	1.26	2,227.97
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:18 AM

Time Slice 9/4/2012-9/5/2012 Active Days: 2	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:18 AM**

Time Slice 9/6/2012-9/7/2012 Active Days: 2	4.47	32.26	20.76	0.00	4.29	1.97	6.26	0.90	1.81	2.71	3,528.37
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:18 AM

Time Slice 9/10/2012-9/12/2012 Active Days: 3	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:18 AM**

Time Slice 9/13/2012-9/14/2012 Active Days: 2	4.47	32.26	20.76	0.00	4.29	1.97	6.26	0.90	1.81	2.71	3,528.37
Demolition 08/17/2012- 09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:18 AM

Time Slice 9/17/2012-9/17/2012	9.76	73.13	45.44	0.00	35.10	4.29	39.39	7.33	3.95	11.28	7,875.84
Active Days: 1											
Demolition 08/17/2012-09/17/2012	1.75	10.28	8.46	0.00	0.00	0.90	0.90	0.00	0.82	0.83	1,178.70
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	1.73	10.23	7.67	0.00	0.00	0.89	0.89	0.00	0.82	0.82	1,076.34
Demo 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
Demo Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Fine Grading 09/04/2012-11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:18 AM

Time Slice 9/18/2012-9/19/2012 Active Days: 2	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/20/2012-9/21/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:18 AM**

Time Slice 9/24/2012-9/26/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 9/27/2012-9/28/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:18 AM

Time Slice 10/1/2012-10/3/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/4/2012-10/5/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:19 AM**

Time Slice 10/8/2012-10/10/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/11/2012-10/12/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:19 AM**

Time Slice 10/15/2012-10/17/2012 Active Days: 3	8.01	62.85	36.98	0.00	35.10	3.39	38.49	7.33	3.12	10.45	6,697.14
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 10/18/2012-10/18/2012 Active Days: 1	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

**4/14/2010 11:48:19 AM**

Time Slice 10/19/2012-10/19/2012 Active Days: 1	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:19 AM

Time Slice 10/22/2012-10/24/2012 Active Days: 3	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:19 AM

Time Slice 10/25/2012-10/26/2012 Active Days: 2	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:19 AM

Time Slice 10/29/2012-10/31/2012 Active Days: 3	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:19 AM

Time Slice 11/1/2012-11/2/2012 Active Days: 2	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:20 AM

Time Slice 11/5/2012-11/6/2012 Active Days: 2	<u>12.15</u>	<b>81.77</b>	48.28	0.01	<u>35.12</u>	<b>4.89</b>	<u>40.01</u>	<u>7.34</u>	<b>4.50</b>	<u>11.84</u>	8,704.63
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Fine Grading 09/04/2012- 11/06/2012	5.29	40.87	24.68	0.00	30.81	2.32	33.13	6.44	2.13	8.57	4,347.47
Fine Grading Dust	0.00	0.00	0.00	0.00	30.80	0.00	30.80	6.43	0.00	6.43	0.00
Fine Grading Off Road Diesel	5.25	40.80	23.30	0.00	0.00	2.31	2.31	0.00	2.13	2.13	4,168.34
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	0.04	0.07	1.38	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.13
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:20 AM

Time Slice 11/7/2012-11/20/2012 Active Days: 10	6.86	40.90	23.60	0.01	4.31	2.57	6.88	0.90	2.36	3.27	4,357.17
Asphalt 10/19/2012-11/20/2012	4.15	18.91	11.30	0.01	0.03	1.49	1.52	0.01	1.37	1.38	2,007.49
Paving Off-Gas	1.33	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	0.23	3.38	1.14	0.01	0.02	0.12	0.14	0.01	0.11	0.12	607.13
Paving Worker Trips	0.03	0.05	0.98	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.95
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 11/21/2012-11/22/2012 Active Days: 2	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading 08/17/2012- 02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36

4/14/2010 11:48:20 AM

Time Slice 11/23/2012-12/3/2012 Active Days: 7	8.15	48.05	80.81	0.08	4.68	2.60	7.28	1.04	2.37	3.41	12,683.39
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36
Time Slice 12/4/2012-12/31/2012 Active Days: 20	10.32	48.07	<b>81.30</b>	<b>0.08</b>	4.68	2.60	7.29	1.04	2.38	3.41	<u>12,746.95</u>
Building 11/23/2012-07/25/2014	5.43	26.06	68.51	0.08	0.40	1.53	1.92	0.14	1.39	1.53	10,333.71
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	0.58	7.48	5.62	0.02	0.07	0.28	0.35	0.02	0.26	0.28	1,839.85
Building Worker Trips	1.59	2.71	51.89	0.07	0.33	0.16	0.49	0.12	0.13	0.25	6,747.53
Coating 12/04/2012-08/15/2014	2.17	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Architectural Coating	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.56
Mass Grading 08/17/2012-02/19/2013	2.71	21.99	12.30	0.00	4.28	1.07	5.36	0.90	0.99	1.88	2,349.68
Mass Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.02	0.04	0.79	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.36



**4/14/2010 11:48:20 AM**

Time Slice 1/1/2014-7/25/2014 Active Days: 148	<u>22.11</u>	<u>21.81</u>	<u>59.06</u>	<u>0.08</u>	<u>0.40</u>	<u>1.23</u>	<u>1.63</u>	<u>0.14</u>	<u>1.12</u>	<u>1.26</u>	<u>10,401.55</u>
Building 11/23/2012-07/25/2014	4.51	21.79	58.65	0.08	0.40	1.23	1.63	0.14	1.11	1.26	10,337.94
Building Off Road Diesel	2.74	13.86	10.34	0.00	0.00	0.86	0.86	0.00	0.79	0.79	1,746.33
Building Vendor Trips	0.48	5.72	4.79	0.02	0.07	0.22	0.29	0.02	0.20	0.22	1,839.79
Building Worker Trips	1.29	2.21	43.52	0.07	0.33	0.15	0.48	0.12	0.12	0.24	6,751.82
Coating 12/04/2012-08/15/2014	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Time Slice 7/28/2014-8/15/2014 Active Days: 15	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Coating 12/04/2012-08/15/2014	17.59	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60
Architectural Coating	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.60

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

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 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%

The following mitigation measures apply to Phase: Mass Grading 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

Page: 47

**4/14/2010 11:48:20 AM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/4/2012 - 8/15/2014 - Phase I Coating

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:

ROG: 10%







4/14/2010 11:49:30 AM

2013	7.64	3.49	8.55	0.01	0.77	0.20	0.97	0.17	0.18	0.35	1,399.42
Building 11/23/2012-07/25/2014	0.65	3.12	8.27	0.01	0.05	0.18	0.23	0.02	0.16	0.18	1,348.83
Building Off Road Diesel	0.39	1.94	1.39	0.00	0.00	0.13	0.13	0.00	0.12	0.12	227.90
Building Vendor Trips	0.07	0.86	0.68	0.00	0.01	0.03	0.04	0.00	0.03	0.03	240.09
Building Worker Trips	0.19	0.32	6.20	0.01	0.04	0.02	0.06	0.02	0.02	0.03	880.84
Coating 12/04/2012-08/15/2014	6.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
Architectural Coating	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
Mass Grading 08/17/2012-02/19/2013	0.05	0.37	0.21	0.00	0.72	0.02	0.74	0.15	0.02	0.17	42.29
Mass Grading Dust	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.15	0.00	0.15	0.00
Mass Grading Off Road Diesel	0.05	0.37	0.20	0.00	0.00	0.02	0.02	0.00	0.02	0.02	40.45
Mass 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
Mass Grading Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84
2014	4.67	1.61	4.37	0.01	0.03	0.09	0.12	0.01	0.08	0.09	770.19
Building 11/23/2012-07/25/2014	0.33	1.61	4.34	0.01	0.03	0.09	0.12	0.01	0.08	0.09	765.01
Building Off Road Diesel	0.20	1.03	0.76	0.00	0.00	0.06	0.06	0.00	0.06	0.06	129.23
Building Vendor Trips	0.04	0.42	0.35	0.00	0.00	0.02	0.02	0.00	0.01	0.02	136.14
Building Worker Trips	0.10	0.16	3.22	0.00	0.02	0.01	0.04	0.01	0.01	0.02	499.64
Coating 12/04/2012-08/15/2014	4.34	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.18
Architectural Coating	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.18

Phase Assumptions

Phase: Demolition 8/3/2012 - 9/3/2012 - Phase I Demolition

Page: 5

**4/14/2010 11:49:30 AM**

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

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: Demolition 8/17/2012 - 9/17/2012 - Phase I On-site Lumber Mill

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Other Equipment (36 hp) operating at a 0.42 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 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

Total Acres Disturbed: 57.6

Maximum Daily Acreage Disturbed: 14.4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Crushing/Processing Equip (150 hp) operating at a 0.78 load factor for 8 hours per day

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other Equipment (75 hp) operating at a 0.8 load factor for 8 hours per day

1 Other Material Handling Equipment (75 hp) operating at a 0.59 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

1 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

Page: 6

**4/14/2010 11:49:31 AM**

Phase: Mass Grading 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

Total Acres Disturbed: 95

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 10/19/2012 - 11/20/2012 - Phase I Paving

Acres to be Paved: 11.7

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 11/23/2012 - 7/25/2014 - Phase I Building

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 12/4/2012 - 8/15/2014 - Phase I Coating

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





4/14/2010 11:49:31 AM

2013	4.37	3.49	8.55	0.01	0.13	0.20	0.33	0.03	0.18	0.21	1,399.42
Building 11/23/2012-07/25/2014	0.65	3.12	8.27	0.01	0.05	0.18	0.23	0.02	0.16	0.18	1,348.83
Building Off Road Diesel	0.39	1.94	1.39	0.00	0.00	0.13	0.13	0.00	0.12	0.12	227.90
Building Vendor Trips	0.07	0.86	0.68	0.00	0.01	0.03	0.04	0.00	0.03	0.03	240.09
Building Worker Trips	0.19	0.32	6.20	0.01	0.04	0.02	0.06	0.02	0.02	0.03	880.84
Coating 12/04/2012-08/15/2014	3.68	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
Architectural Coating	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
Mass Grading 08/17/2012-02/19/2013	0.05	0.37	0.21	0.00	0.08	0.02	0.09	0.02	0.02	0.03	42.29
Mass Grading Dust	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.02	0.00	0.02	0.00
Mass Grading Off Road Diesel	0.05	0.37	0.20	0.00	0.00	0.02	0.02	0.00	0.02	0.02	40.45
Mass 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
Mass Grading Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84
2014	1.77	1.61	4.37	0.01	0.03	0.09	0.12	0.01	0.08	0.09	770.19
Building 11/23/2012-07/25/2014	0.33	1.61	4.34	0.01	0.03	0.09	0.12	0.01	0.08	0.09	765.01
Building Off Road Diesel	0.20	1.03	0.76	0.00	0.00	0.06	0.06	0.00	0.06	0.06	129.23
Building Vendor Trips	0.04	0.42	0.35	0.00	0.00	0.02	0.02	0.00	0.01	0.02	136.14
Building Worker Trips	0.10	0.16	3.22	0.00	0.02	0.01	0.04	0.01	0.01	0.02	499.64
Coating 12/04/2012-08/15/2014	1.43	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.18
Architectural Coating	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.18

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 9/4/2012 - 11/6/2012 - Phase I Aggregate Production

Page: 10

**4/14/2010 11:49:31 AM**

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 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%

The following mitigation measures apply to Phase: Mass Grading 8/17/2012 - 2/19/2013 - Phase I Mass Grading (entire site)

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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/4/2012 - 8/15/2014 - Phase I Coating

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:

ROG: 10%



Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase II Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2015 TOTALS (lbs/day unmitigated)	6.22	29.87	22.64	0.01	40.02	1.84	41.61	8.36	1.69	9.82	4,358.61
2015 TOTALS (lbs/day mitigated)	6.22	29.87	22.64	0.01	4.30	1.84	5.89	0.90	1.69	2.36	4,358.61
2016 TOTALS (lbs/day unmitigated)	6.00	11.46	11.29	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,013.32
2016 TOTALS (lbs/day mitigated)	6.00	11.46	11.29	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,013.32
2017 TOTALS (lbs/day unmitigated)	5.79	10.65	10.97	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,013.32
2017 TOTALS (lbs/day mitigated)	5.79	10.65	10.97	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,013.32

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

4/14/2010 12:09:13 PM

	<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>
Time Slice 8/3/2015-11/19/2015 Active Days: 79	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/20/2015-12/4/2015 Active Days: 11	4.75	<b><u>29.87</u></b>	<b><u>22.64</u></b>	0.00	<b><u>40.02</u></b>	1.59	<b><u>41.61</u></b>	<b><u>8.36</u></b>	1.46	<b><u>9.82</u></b>	<b><u>4,358.61</u></b>
Building 11/20/2015-01/13/2017	2.47	12.34	11.64	0.00	0.02	0.78	0.80	0.01	0.72	0.72	2,008.85
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.02	0.21	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.85
Building Worker Trips	0.05	0.09	1.83	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.80
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



4/14/2010 12:09:13 PM

Time Slice 1/1/2016-12/30/2016	<u>6.00</u>	<u>11.46</u>	<u>11.29</u>	<u>0.00</u>	<u>0.02</u>	<u>0.69</u>	<u>0.71</u>	<u>0.01</u>	<u>0.63</u>	<u>0.64</u>	<u>2,013.32</u>
Active Days: 261											
Building 11/20/2015-01/13/2017	2.25	11.46	11.27	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,008.85
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.02	0.19	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.05	0.08	1.69	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/2/2017-1/13/2017	<u>5.79</u>	<u>10.65</u>	<u>10.97</u>	<u>0.00</u>	<u>0.02</u>	<u>0.61</u>	<u>0.63</u>	<u>0.01</u>	<u>0.56</u>	<u>0.57</u>	<u>2,013.32</u>
Active Days: 10											
Building 11/20/2015-01/13/2017	2.04	10.65	10.94	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,008.84
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.02	0.17	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.04	0.08	1.57	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/16/2017-1/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Active Days: 11											
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48

Phase Assumptions

Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

Total Acres Disturbed: 7

Page: 5

**4/14/2010 12:09:13 PM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 12/7/2015 - 12/10/2015 - Phase II Paving

Acres to be Paved: 2.1

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 11/20/2015 - 1/13/2017 - Phase II Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/18/2015 - 1/30/2017 - Phase II Coating

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

4/14/2010 12:09:13 PM

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

	<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>
Time Slice 8/3/2015-11/19/2015 Active Days: 79	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/20/2015-12/4/2015 Active Days: 11	4.75	<b><u>29.87</u></b>	<b><u>22.64</u></b>	0.00	<b><u>4.30</u></b>	1.59	<b><u>5.89</u></b>	<b><u>0.90</u></b>	1.46	<b><u>2.36</u></b>	<b><u>4,358.61</u></b>
Building 11/20/2015-01/13/2017	2.47	12.34	11.64	0.00	0.02	0.78	0.80	0.01	0.72	0.72	2,008.85
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.02	0.21	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.85
Building Worker Trips	0.05	0.09	1.83	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.80
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



4/14/2010 12:09:14 PM

Time Slice 1/1/2016-12/30/2016	<u>6.00</u>	<u>11.46</u>	<u>11.29</u>	<u>0.00</u>	<u>0.02</u>	<u>0.69</u>	<u>0.71</u>	<u>0.01</u>	<u>0.63</u>	<u>0.64</u>	<u>2,013.32</u>
Active Days: 261											
Building 11/20/2015-01/13/2017	2.25	11.46	11.27	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,008.85
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.02	0.19	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.05	0.08	1.69	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/2/2017-1/13/2017	<u>5.79</u>	<u>10.65</u>	<u>10.97</u>	<u>0.00</u>	<u>0.02</u>	<u>0.61</u>	<u>0.63</u>	<u>0.01</u>	<u>0.56</u>	<u>0.57</u>	<u>2,013.32</u>
Active Days: 10											
Building 11/20/2015-01/13/2017	2.04	10.65	10.94	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,008.84
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.02	0.17	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.04	0.08	1.57	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/16/2017-1/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Active Days: 11											
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

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

Page: 9

**4/14/2010 12:09:14 PM**

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 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%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase II Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2015 TOTALS (lbs/day unmitigated)	6.22	29.87	22.64	0.01	40.02	1.84	41.61	8.36	1.69	9.82	4,358.61
2015 TOTALS (lbs/day mitigated)	6.22	29.87	22.64	0.01	4.30	1.84	5.89	0.90	1.69	2.36	4,358.61
2016 TOTALS (lbs/day unmitigated)	6.00	11.46	11.29	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,013.32
2016 TOTALS (lbs/day mitigated)	6.00	11.46	11.29	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,013.32
2017 TOTALS (lbs/day unmitigated)	5.79	10.65	10.97	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,013.32
2017 TOTALS (lbs/day mitigated)	5.79	10.65	10.97	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,013.32

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

4/14/2010 12:13:36 PM

	<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>
Time Slice 8/3/2015-11/19/2015 Active Days: 79	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/20/2015-12/4/2015 Active Days: 11	4.75	<b>29.87</b>	<b>22.64</b>	0.00	<b>40.02</b>	1.59	<b>41.61</b>	<b>8.36</b>	1.46	<b>9.82</b>	<b>4,358.61</b>
Building 11/20/2015-01/13/2017	2.47	12.34	11.64	0.00	0.02	0.78	0.80	0.01	0.72	0.72	2,008.85
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.02	0.21	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.85
Building Worker Trips	0.05	0.09	1.83	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.80
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	40.00	0.81	40.82	8.36	0.75	9.10	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



4/14/2010 12:13:36 PM

Time Slice 1/1/2016-12/30/2016	<u>6.00</u>	<u>11.46</u>	<u>11.29</u>	<u>0.00</u>	<u>0.02</u>	<u>0.69</u>	<u>0.71</u>	<u>0.01</u>	<u>0.63</u>	<u>0.64</u>	<u>2,013.32</u>
Active Days: 261											
Building 11/20/2015-01/13/2017	2.25	11.46	11.27	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,008.85
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.02	0.19	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.05	0.08	1.69	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/2/2017-1/13/2017	<u>5.79</u>	<u>10.65</u>	<u>10.97</u>	<u>0.00</u>	<u>0.02</u>	<u>0.61</u>	<u>0.63</u>	<u>0.01</u>	<u>0.56</u>	<u>0.57</u>	<u>2,013.32</u>
Active Days: 10											
Building 11/20/2015-01/13/2017	2.04	10.65	10.94	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,008.84
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.02	0.17	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.04	0.08	1.57	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/16/2017-1/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Active Days: 11											
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48

Phase Assumptions

Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

Total Acres Disturbed: 7

Page: 5

**4/14/2010 12:13:36 PM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 12/7/2015 - 12/10/2015 - Phase II Paving

Acres to be Paved: 2.1

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 11/20/2015 - 1/13/2017 - Phase II Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/18/2015 - 1/30/2017 - Phase II Coating

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

4/14/2010 12:13:36 PM

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 Winter Pounds Per Day, Mitigated

	<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>
Time Slice 8/3/2015-11/19/2015 Active Days: 79	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/20/2015-12/4/2015 Active Days: 11	4.75	<b><u>29.87</u></b>	<b><u>22.64</u></b>	0.00	<b><u>4.30</u></b>	1.59	<b><u>5.89</u></b>	<b><u>0.90</u></b>	1.46	<b><u>2.36</u></b>	<b><u>4,358.61</u></b>
Building 11/20/2015-01/13/2017	2.47	12.34	11.64	0.00	0.02	0.78	0.80	0.01	0.72	0.72	2,008.85
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.02	0.21	0.19	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.85
Building Worker Trips	0.05	0.09	1.83	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.80
Fine Grading 08/03/2015-12/04/2015	2.27	17.53	11.00	0.00	4.28	0.81	5.09	0.90	0.75	1.64	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.26	17.50	10.40	0.00	0.00	0.81	0.81	0.00	0.74	0.74	2,247.32
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	0.02	0.03	0.60	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



**4/14/2010 12:13:36 PM**

Time Slice 1/1/2016-12/30/2016 Active Days: 261	<u>6.00</u>	<u>11.46</u>	<u>11.29</u>	<u>0.00</u>	<u>0.02</u>	<u>0.69</u>	<u>0.71</u>	<u>0.01</u>	<u>0.63</u>	<u>0.64</u>	<u>2,013.32</u>
Building 11/20/2015-01/13/2017	2.25	11.46	11.27	0.00	0.02	0.69	0.71	0.01	0.63	0.64	2,008.85
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.02	0.19	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.05	0.08	1.69	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/2/2017-1/13/2017 Active Days: 10	<u>5.79</u>	<u>10.65</u>	<u>10.97</u>	<u>0.00</u>	<u>0.02</u>	<u>0.61</u>	<u>0.63</u>	<u>0.01</u>	<u>0.56</u>	<u>0.57</u>	<u>2,013.32</u>
Building 11/20/2015-01/13/2017	2.04	10.65	10.94	0.00	0.02	0.61	0.63	0.01	0.56	0.57	2,008.84
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.02	0.17	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	77.84
Building Worker Trips	0.04	0.08	1.57	0.00	0.02	0.01	0.02	0.01	0.01	0.01	309.81
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Time Slice 1/16/2017-1/30/2017 Active Days: 11	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Coating 12/18/2015-01/30/2017	3.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48
Architectural Coating	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

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

Page: 9

**4/14/2010 12:13:37 PM**

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 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%





4/14/2010 12:16:31 PM

2016	0.78	1.50	1.47	0.00	0.00	0.09	0.09	0.00	0.08	0.08	262.74
Building 11/20/2015-01/13/2017	0.29	1.50	1.47	0.00	0.00	0.09	0.09	0.00	0.08	0.08	262.15
Building Off Road Diesel	0.29	1.46	1.23	0.00	0.00	0.09	0.09	0.00	0.08	0.08	211.57
Building Vendor Trips	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16
Building Worker Trips	0.01	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.43
Coating 12/18/2015-01/30/2017	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
Architectural Coating	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
2017	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.09
Building 11/20/2015-01/13/2017	0.01	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.04
Building Off Road Diesel	0.01	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Building Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55
Coating 12/18/2015-01/30/2017	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Architectural Coating	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Phase Assumptions

Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

Total Acres Disturbed: 7

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

Page: 4

**4/14/2010 12:16:31 PM**

- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 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 12/7/2015 - 12/10/2015 - Phase II Paving

Acres to be Paved: 2.1

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
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 11/20/2015 - 1/13/2017 - Phase II Building

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/18/2015 - 1/30/2017 - Phase II Coating

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:



4/14/2010 12:16:31 PM

2016	0.78	1.50	1.47	0.00	0.00	0.09	0.09	0.00	0.08	0.08	262.74
Building 11/20/2015-01/13/2017	0.29	1.50	1.47	0.00	0.00	0.09	0.09	0.00	0.08	0.08	262.15
Building Off Road Diesel	0.29	1.46	1.23	0.00	0.00	0.09	0.09	0.00	0.08	0.08	211.57
Building Vendor Trips	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16
Building Worker Trips	0.01	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.43
Coating 12/18/2015-01/30/2017	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
Architectural Coating	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
2017	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.09
Building 11/20/2015-01/13/2017	0.01	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.04
Building Off Road Diesel	0.01	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Building Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55
Coating 12/18/2015-01/30/2017	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Architectural Coating	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/3/2015 - 12/4/2015 - Phase II Fine Grading

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

Page: 7

**4/14/2010 12:16:31 PM**

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase III Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2017 TOTALS (lbs/day unmitigated)	22.49	40.12	43.54	0.04	40.19	2.30	42.50	8.42	2.11	10.53	9,417.58
2017 TOTALS (lbs/day mitigated)	8.52	40.12	43.54	0.04	4.47	2.30	6.78	0.96	2.11	3.07	9,417.58
2018 TOTALS (lbs/day unmitigated)	22.25	11.45	22.22	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,800.20
2018 TOTALS (lbs/day mitigated)	13.04	11.45	22.22	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,800.20
2019 TOTALS (lbs/day unmitigated)	22.06	10.58	21.11	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,800.37
2019 TOTALS (lbs/day mitigated)	8.79	10.58	21.11	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,800.37

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

4/14/2010 11:59:29 AM

	<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>
Time Slice 8/2/2017-11/16/2017 Active Days: 77	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading 08/02/2017- 12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/17/2017-12/1/2017 Active Days: 11	4.51	27.09	33.65	0.03	40.15	1.39	41.54	8.41	1.27	9.68	7,125.96
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017- 12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45

4/14/2010 11:59:29 AM

Time Slice 12/4/2017-12/4/2017	8.52	<u>40.12</u>	<u>43.54</u>	<u>0.04</u>	<u>40.19</u>	<u>2.30</u>	<u>42.50</u>	<u>8.42</u>	<u>2.11</u>	<u>10.53</u>	<u>9,417.58</u>
Active Days: 1											
Asphalt 12/04/2017-12/13/2017	4.01	13.03	9.89	0.01	0.04	0.91	0.96	0.01	0.84	0.85	2,291.62
Paving Off-Gas	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.66	10.19	7.79	0.00	0.00	0.81	0.81	0.00	0.74	0.74	1,131.92
Paving On Road Diesel	0.23	2.79	1.06	0.01	0.03	0.10	0.13	0.01	0.09	0.10	954.81
Paving Worker Trips	0.03	0.05	1.04	0.00	0.01	0.00	0.01	0.00	0.00	0.01	204.90
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



**4/14/2010 11:59:29 AM**

Time Slice 1/1/2018-12/31/2018	<u>22.25</u>	<u>11.45</u>	<u>22.22</u>	<u>0.03</u>	<u>0.15</u>	<u>0.63</u>	<u>0.78</u>	<u>0.05</u>	<u>0.57</u>	<u>0.63</u>	<u>4,800.20</u>
Active Days: 261											
Building 11/17/2017-07/19/2019	2.23	11.44	22.11	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,776.26
Building Off Road Diesel	1.78	9.66	9.01	0.00	0.00	0.52	0.52	0.00	0.48	0.48	1,621.20
Building Vendor Trips	0.12	1.21	1.27	0.01	0.02	0.05	0.07	0.01	0.04	0.05	630.66
Building Worker Trips	0.32	0.57	11.82	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.40
Coating 12/17/2017-08/15/2019	20.03	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 1/1/2019-7/19/2019	<u>22.06</u>	<u>10.58</u>	<u>21.11</u>	<u>0.03</u>	<u>0.15</u>	<u>0.56</u>	<u>0.70</u>	<u>0.05</u>	<u>0.50</u>	<u>0.56</u>	<u>4,800.37</u>
Active Days: 144											
Building 11/17/2017-07/19/2019	2.03	10.58	21.01	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,776.43
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.11	1.10	1.20	0.01	0.02	0.04	0.07	0.01	0.04	0.05	630.68
Building Worker Trips	0.30	0.52	10.94	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.55
Coating 12/17/2017-08/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 7/22/2019-8/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Active Days: 19											
Coating 12/17/2017-08/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94

Phase Assumptions

Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

Total Acres Disturbed: 18

Page: 6

**4/14/2010 11:59:30 AM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 12/4/2017 - 12/13/2017 - Phase III Paving

Acres to be Paved: 6.4

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 11/17/2017 - 7/19/2019 - Phase III Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/17/2017 - 8/15/2019 - Phase III Coating

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

4/14/2010 11:59:30 AM

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

	<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>
Time Slice 8/2/2017-11/16/2017 Active Days: 77	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/17/2017-12/1/2017 Active Days: 11	4.51	27.09	33.65	0.03	4.43	1.39	5.82	0.95	1.27	2.22	7,125.96
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45

4/14/2010 11:59:30 AM

Time Slice 12/4/2017-12/4/2017	<u>8.52</u>	<u>40.12</u>	<u>43.54</u>	<u>0.04</u>	<u>4.47</u>	<u>2.30</u>	<u>6.78</u>	<u>0.96</u>	<u>2.11</u>	<u>3.07</u>	<u>9,417.58</u>
Active Days: 1											
Asphalt 12/04/2017-12/13/2017	4.01	13.03	9.89	0.01	0.04	0.91	0.96	0.01	0.84	0.85	2,291.62
Paving Off-Gas	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.66	10.19	7.79	0.00	0.00	0.81	0.81	0.00	0.74	0.74	1,131.92
Paving On Road Diesel	0.23	2.79	1.06	0.01	0.03	0.10	0.13	0.01	0.09	0.10	954.81
Paving Worker Trips	0.03	0.05	1.04	0.00	0.01	0.00	0.01	0.00	0.00	0.01	204.90
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



**4/14/2010 11:59:30 AM**

Time Slice 1/1/2018-12/31/2018 Active Days: 261	<u>13.04</u>	<u>11.45</u>	<u>22.22</u>	<u>0.03</u>	<u>0.15</u>	<u>0.63</u>	<u>0.78</u>	<u>0.05</u>	<u>0.57</u>	<u>0.63</u>	<u>4,800.20</u>
Building 11/17/2017-07/19/2019	2.23	11.44	22.11	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,776.26
Building Off Road Diesel	1.78	9.66	9.01	0.00	0.00	0.52	0.52	0.00	0.48	0.48	1,621.20
Building Vendor Trips	0.12	1.21	1.27	0.01	0.02	0.05	0.07	0.01	0.04	0.05	630.66
Building Worker Trips	0.32	0.57	11.82	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.40
Coating 12/17/2017-08/15/2019	10.82	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 1/1/2019-7/19/2019 Active Days: 144	<u>8.79</u>	<u>10.58</u>	<u>21.11</u>	<u>0.03</u>	<u>0.15</u>	<u>0.56</u>	<u>0.70</u>	<u>0.05</u>	<u>0.50</u>	<u>0.56</u>	<u>4,800.37</u>
Building 11/17/2017-07/19/2019	2.03	10.58	21.01	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,776.43
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.11	1.10	1.20	0.01	0.02	0.04	0.07	0.01	0.04	0.05	630.68
Building Worker Trips	0.30	0.52	10.94	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.55
Coating 12/17/2017-08/15/2019	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 7/22/2019-8/15/2019 Active Days: 19	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Coating 12/17/2017-08/15/2019	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

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

Page: 11

**4/14/2010 11:59:30 AM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/17/2017 - 8/15/2019 - Phase III Coating

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:

ROG: 10%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase III Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2017 TOTALS (lbs/day unmitigated)	22.49	40.12	43.54	0.04	40.19	2.30	42.50	8.42	2.11	10.53	9,417.58
2017 TOTALS (lbs/day mitigated)	8.52	40.12	43.54	0.04	4.47	2.30	6.78	0.96	2.11	3.07	9,417.58
2018 TOTALS (lbs/day unmitigated)	22.25	11.45	22.22	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,800.20
2018 TOTALS (lbs/day mitigated)	13.04	11.45	22.22	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,800.20
2019 TOTALS (lbs/day unmitigated)	22.06	10.58	21.11	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,800.37
2019 TOTALS (lbs/day mitigated)	8.79	10.58	21.11	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,800.37

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

4/14/2010 12:00:12 PM

	<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>
Time Slice 8/2/2017-11/16/2017 Active Days: 77	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading 08/02/2017- 12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/17/2017-12/1/2017 Active Days: 11	4.51	27.09	33.65	0.03	40.15	1.39	41.54	8.41	1.27	9.68	7,125.96
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017- 12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45

**4/14/2010 12:00:12 PM**

Time Slice 12/4/2017-12/4/2017	8.52	<b><u>40.12</u></b>	<b><u>43.54</u></b>	<b><u>0.04</u></b>	<b><u>40.19</u></b>	<b><u>2.30</u></b>	<b><u>42.50</u></b>	<b><u>8.42</u></b>	<b><u>2.11</u></b>	<b><u>10.53</u></b>	<b><u>9,417.58</u></b>
Active Days: 1											
Asphalt 12/04/2017-12/13/2017	4.01	13.03	9.89	0.01	0.04	0.91	0.96	0.01	0.84	0.85	2,291.62
Paving Off-Gas	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.66	10.19	7.79	0.00	0.00	0.81	0.81	0.00	0.74	0.74	1,131.92
Paving On Road Diesel	0.23	2.79	1.06	0.01	0.03	0.10	0.13	0.01	0.09	0.10	954.81
Paving Worker Trips	0.03	0.05	1.04	0.00	0.01	0.00	0.01	0.00	0.00	0.01	204.90
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	40.00	0.68	40.68	8.36	0.62	8.98	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



**4/14/2010 12:00:12 PM**

Time Slice 1/1/2018-12/31/2018	<u>22.25</u>	<u>11.45</u>	<u>22.22</u>	<u>0.03</u>	<u>0.15</u>	<u>0.63</u>	<u>0.78</u>	<u>0.05</u>	<u>0.57</u>	<u>0.63</u>	<u>4,800.20</u>
Active Days: 261											
Building 11/17/2017-07/19/2019	2.23	11.44	22.11	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,776.26
Building Off Road Diesel	1.78	9.66	9.01	0.00	0.00	0.52	0.52	0.00	0.48	0.48	1,621.20
Building Vendor Trips	0.12	1.21	1.27	0.01	0.02	0.05	0.07	0.01	0.04	0.05	630.66
Building Worker Trips	0.32	0.57	11.82	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.40
Coating 12/17/2017-08/15/2019	20.03	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 1/1/2019-7/19/2019	<u>22.06</u>	<u>10.58</u>	<u>21.11</u>	<u>0.03</u>	<u>0.15</u>	<u>0.56</u>	<u>0.70</u>	<u>0.05</u>	<u>0.50</u>	<u>0.56</u>	<u>4,800.37</u>
Active Days: 144											
Building 11/17/2017-07/19/2019	2.03	10.58	21.01	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,776.43
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.11	1.10	1.20	0.01	0.02	0.04	0.07	0.01	0.04	0.05	630.68
Building Worker Trips	0.30	0.52	10.94	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.55
Coating 12/17/2017-08/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 7/22/2019-8/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Active Days: 19											
Coating 12/17/2017-08/15/2019	20.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94

Phase Assumptions

Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

Total Acres Disturbed: 18

Page: 6

**4/14/2010 12:00:12 PM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 12/4/2017 - 12/13/2017 - Phase III Paving

Acres to be Paved: 6.4

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 11/17/2017 - 7/19/2019 - Phase III Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/17/2017 - 8/15/2019 - Phase III Coating

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

4/14/2010 12:00:12 PM

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

	<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>
Time Slice 8/2/2017-11/16/2017 Active Days: 77	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45
Time Slice 11/17/2017-12/1/2017 Active Days: 11	4.51	27.09	33.65	0.03	4.43	1.39	5.82	0.95	1.27	2.22	7,125.96
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45

**4/14/2010 12:00:12 PM**

Time Slice 12/4/2017-12/4/2017	<u>8.52</u>	<u>40.12</u>	<u>43.54</u>	<u>0.04</u>	<u>4.47</u>	<u>2.30</u>	<u>6.78</u>	<u>0.96</u>	<u>2.11</u>	<u>3.07</u>	<u>9,417.58</u>
Active Days: 1											
Asphalt 12/04/2017-12/13/2017	4.01	13.03	9.89	0.01	0.04	0.91	0.96	0.01	0.84	0.85	2,291.62
Paving Off-Gas	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.66	10.19	7.79	0.00	0.00	0.81	0.81	0.00	0.74	0.74	1,131.92
Paving On Road Diesel	0.23	2.79	1.06	0.01	0.03	0.10	0.13	0.01	0.09	0.10	954.81
Paving Worker Trips	0.03	0.05	1.04	0.00	0.01	0.00	0.01	0.00	0.00	0.01	204.90
Building 11/17/2017-07/19/2019	2.47	12.38	23.33	0.03	0.15	0.71	0.86	0.05	0.65	0.70	4,776.19
Building Off Road Diesel	1.98	10.41	9.21	0.00	0.00	0.60	0.60	0.00	0.55	0.55	1,621.20
Building Vendor Trips	0.13	1.35	1.35	0.01	0.02	0.05	0.08	0.01	0.05	0.06	630.66
Building Worker Trips	0.36	0.62	12.77	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.34
Fine Grading 08/02/2017-12/04/2017	2.04	14.71	10.32	0.00	4.28	0.68	4.96	0.90	0.62	1.52	2,349.77
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.01	0.03	0.52	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.45



**4/14/2010 12:00:13 PM**

Time Slice 1/1/2018-12/31/2018 Active Days: 261	<u>13.04</u>	<u>11.45</u>	<u>22.22</u>	<u>0.03</u>	<u>0.15</u>	<u>0.63</u>	<u>0.78</u>	<u>0.05</u>	<u>0.57</u>	<u>0.63</u>	<u>4,800.20</u>
Building 11/17/2017-07/19/2019	2.23	11.44	22.11	0.03	0.15	0.63	0.78	0.05	0.57	0.63	4,776.26
Building Off Road Diesel	1.78	9.66	9.01	0.00	0.00	0.52	0.52	0.00	0.48	0.48	1,621.20
Building Vendor Trips	0.12	1.21	1.27	0.01	0.02	0.05	0.07	0.01	0.04	0.05	630.66
Building Worker Trips	0.32	0.57	11.82	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.40
Coating 12/17/2017-08/15/2019	10.82	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 1/1/2019-7/19/2019 Active Days: 144	<u>8.79</u>	<u>10.58</u>	<u>21.11</u>	<u>0.03</u>	<u>0.15</u>	<u>0.56</u>	<u>0.70</u>	<u>0.05</u>	<u>0.50</u>	<u>0.56</u>	<u>4,800.37</u>
Building 11/17/2017-07/19/2019	2.03	10.58	21.01	0.03	0.15	0.56	0.70	0.05	0.50	0.56	4,776.43
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.11	1.10	1.20	0.01	0.02	0.04	0.07	0.01	0.04	0.05	630.68
Building Worker Trips	0.30	0.52	10.94	0.02	0.12	0.06	0.18	0.04	0.05	0.09	2,524.55
Coating 12/17/2017-08/15/2019	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Time Slice 7/22/2019-8/15/2019 Active Days: 19	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Coating 12/17/2017-08/15/2019	6.76	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94
Architectural Coating	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.94

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

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

Page: 11

**4/14/2010 12:00:13 PM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/17/2017 - 8/15/2019 - Phase III Coating

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:

ROG: 10%





4/14/2010 12:01:23 PM

2018	2.90	1.49	2.90	0.00	0.02	0.08	0.10	0.01	0.08	0.08	626.43
Building 11/17/2017-07/19/2019	0.29	1.49	2.88	0.00	0.02	0.08	0.10	0.01	0.07	0.08	623.30
Building Off Road Diesel	0.23	1.26	1.18	0.00	0.00	0.07	0.07	0.00	0.06	0.06	211.57
Building Vendor Trips	0.02	0.16	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	82.30
Building Worker Trips	0.04	0.07	1.54	0.00	0.02	0.01	0.02	0.01	0.01	0.01	329.43
Coating 12/17/2017-08/15/2019	2.61	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12
Architectural Coating	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12
2019	1.78	0.76	1.52	0.00	0.01	0.04	0.05	0.00	0.04	0.04	345.85
Building 11/17/2017-07/19/2019	0.15	0.76	1.51	0.00	0.01	0.04	0.05	0.00	0.04	0.04	343.90
Building Off Road Diesel	0.12	0.64	0.64	0.00	0.00	0.03	0.03	0.00	0.03	0.03	116.73
Building Vendor Trips	0.01	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.41
Building Worker Trips	0.02	0.04	0.79	0.00	0.01	0.00	0.01	0.00	0.00	0.01	181.77
Coating 12/17/2017-08/15/2019	1.63	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95
Architectural Coating	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95

Phase Assumptions

Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

Total Acres Disturbed: 18

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

Page: 4

**4/14/2010 12:01:23 PM**

- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 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 12/4/2017 - 12/13/2017 - Phase III Paving

Acres to be Paved: 6.4

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 11/17/2017 - 7/19/2019 - Phase III Building

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 12/17/2017 - 8/15/2019 - Phase III Coating

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 Annual Tons Per Year, Mitigated



4/14/2010 12:01:23 PM

2018	1.70	1.49	2.90	0.00	0.02	0.08	0.10	0.01	0.08	0.08	626.43
Building 11/17/2017-07/19/2019	0.29	1.49	2.88	0.00	0.02	0.08	0.10	0.01	0.07	0.08	623.30
Building Off Road Diesel	0.23	1.26	1.18	0.00	0.00	0.07	0.07	0.00	0.06	0.06	211.57
Building Vendor Trips	0.02	0.16	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	82.30
Building Worker Trips	0.04	0.07	1.54	0.00	0.02	0.01	0.02	0.01	0.01	0.01	329.43
Coating 12/17/2017-08/15/2019	1.41	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12
Architectural Coating	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12
2019	0.70	0.76	1.52	0.00	0.01	0.04	0.05	0.00	0.04	0.04	345.85
Building 11/17/2017-07/19/2019	0.15	0.76	1.51	0.00	0.01	0.04	0.05	0.00	0.04	0.04	343.90
Building Off Road Diesel	0.12	0.64	0.64	0.00	0.00	0.03	0.03	0.00	0.03	0.03	116.73
Building Vendor Trips	0.01	0.08	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.41
Building Worker Trips	0.02	0.04	0.79	0.00	0.01	0.00	0.01	0.00	0.00	0.01	181.77
Coating 12/17/2017-08/15/2019	0.55	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95
Architectural Coating	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/2/2017 - 12/4/2017 - Phase III Fine Grading

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

Page: 7

**4/14/2010 12:01:23 PM**

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 12/17/2017 - 8/15/2019 - Phase III Coating

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:

ROG: 10%

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase IV Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2022 TOTALS (lbs/day unmitigated)	35.60	20.97	29.62	0.05	40.21	1.18	41.22	8.43	1.07	9.35	8,477.58
2022 TOTALS (lbs/day mitigated)	4.82	20.97	29.62	0.05	4.49	1.18	5.50	0.97	1.07	1.89	8,477.58
2023 TOTALS (lbs/day unmitigated)	35.60	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2023 TOTALS (lbs/day mitigated)	22.92	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2024 TOTALS (lbs/day unmitigated)	35.60	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2024 TOTALS (lbs/day mitigated)	8.69	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

4/14/2010 12:04:44 PM

	<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>
Time Slice 8/1/2022-10/20/2022 Active Days: 59	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51
Time Slice 10/21/2022-11/4/2022 Active Days: 11	3.49	<b>20.97</b>	29.51	0.04	<b>40.21</b>	1.01	<b>41.22</b>	<b>8.43</b>	0.92	<b>9.35</b>	<b>8,477.58</b>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51



4/14/2010 12:04:44 PM

Time Slice 1/2/2023-12/29/2023	<b>35.60</b>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 260											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 1/1/2024-4/19/2024	<b>35.60</b>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 80											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 4/22/2024-4/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Active Days: 5											
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41

Phase Assumptions

Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

Total Acres Disturbed: 13

Page: 5

**4/14/2010 12:04:44 PM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 11/7/2022 - 11/10/2022 - Phase IV Paving

Acres to be Paved: 2.3

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 10/21/2022 - 4/19/2024 - Phase IV Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 11/18/2022 - 4/26/2024 - Phase IV Coating

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

4/14/2010 12:04:44 PM

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

	<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>
Time Slice 8/1/2022-10/20/2022 Active Days: 59	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51
Time Slice 10/21/2022-11/4/2022 Active Days: 11	3.49	<b>20.97</b>	29.51	0.04	<u>4.49</u>	1.01	<u>5.50</u>	<u>0.97</u>	0.92	<u>1.89</u>	<b>8,477.58</b>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51



**4/14/2010 12:04:44 PM**

Time Slice 1/2/2023-12/29/2023	<u>22.92</u>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 260											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	21.11	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 1/1/2024-4/19/2024	<u>8.69</u>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 80											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 4/22/2024-4/26/2024	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Active Days: 5											
Coating 11/18/2022-04/26/2024	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

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

**4/14/2010 12:04:45 PM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 11/18/2022 - 4/26/2024 - Phase IV Coating

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:

ROG: 10%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\Construction\Timberline - Phase IV Construction Emissions.urb924

Project Name: Timberline at Auburn

Project Location: Placer County APCD

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>
2022 TOTALS (lbs/day unmitigated)	35.60	20.97	29.62	0.05	40.21	1.18	41.22	8.43	1.07	9.35	8,477.58
2022 TOTALS (lbs/day mitigated)	4.82	20.97	29.62	0.05	4.49	1.18	5.50	0.97	1.07	1.89	8,477.58
2023 TOTALS (lbs/day unmitigated)	35.60	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2023 TOTALS (lbs/day mitigated)	22.92	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2024 TOTALS (lbs/day unmitigated)	35.60	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16
2024 TOTALS (lbs/day mitigated)	8.69	9.81	20.17	0.04	0.21	0.52	0.73	0.08	0.47	0.54	6,168.16

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

4/14/2010 12:05:17 PM

	<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>
Time Slice 8/1/2022-10/20/2022 Active Days: 59	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51
Time Slice 10/21/2022-11/4/2022 Active Days: 11	3.49	<b>20.97</b>	29.51	0.04	<b>40.21</b>	1.01	<b>41.22</b>	<b>8.43</b>	0.92	<b>9.35</b>	<b>8,477.58</b>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	40.00	0.49	40.49	8.36	0.45	8.80	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	40.00	0.00	40.00	8.35	0.00	8.35	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51



4/14/2010 12:05:17 PM

Time Slice 1/2/2023-12/29/2023	<b>35.60</b>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 260											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 1/1/2024-4/19/2024	<b>35.60</b>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Active Days: 80											
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 4/22/2024-4/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Active Days: 5											
Coating 11/18/2022-04/26/2024	33.78	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41

Phase Assumptions

Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

Total Acres Disturbed: 13

Page: 5

**4/14/2010 12:05:17 PM**

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 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 11/7/2022 - 11/10/2022 - Phase IV Paving

Acres to be Paved: 2.3

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 10/21/2022 - 4/19/2024 - Phase IV Building

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 11/18/2022 - 4/26/2024 - Phase IV Coating

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

4/14/2010 12:05:17 PM

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 Winter Pounds Per Day, Mitigated

	<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>
Time Slice 8/1/2022-10/20/2022 Active Days: 59	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51
Time Slice 10/21/2022-11/4/2022 Active Days: 11	3.49	<b>20.97</b>	29.51	0.04	<u>4.49</u>	1.01	<u>5.50</u>	<u>0.97</u>	0.92	<u>1.89</u>	<b>8,477.58</b>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Fine Grading 08/01/2022-11/04/2022	1.68	11.17	9.45	0.00	4.28	0.49	4.77	0.90	0.45	1.34	2,349.83
Fine Grading Dust	0.00	0.00	0.00	0.00	4.28	0.00	4.28	0.89	0.00	0.89	0.00
Fine Grading Off Road Diesel	1.67	11.16	9.17	0.00	0.00	0.49	0.49	0.00	0.45	0.45	2,247.32
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	0.01	0.01	0.29	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.51



**4/14/2010 12:05:17 PM**

Time Slice 1/2/2023-12/29/2023 Active Days: 260	<u>22.92</u>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	21.11	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 1/1/2024-4/19/2024 Active Days: 80	<u>8.69</u>	<u>9.81</u>	<u>20.17</u>	<u>0.04</u>	<u>0.21</u>	<u>0.52</u>	<u>0.73</u>	<u>0.08</u>	<u>0.47</u>	<u>0.54</u>	<u>6,168.16</u>
Building 10/21/2022-04/19/2024	1.81	9.81	20.06	0.04	0.21	0.52	0.73	0.07	0.47	0.54	6,127.75
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.12	0.99	1.29	0.01	0.03	0.04	0.08	0.01	0.04	0.05	904.67
Building Worker Trips	0.24	0.45	10.05	0.03	0.18	0.08	0.26	0.06	0.07	0.13	3,601.88
Coating 11/18/2022-04/26/2024	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Time Slice 4/22/2024-4/26/2024 Active Days: 5	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Coating 11/18/2022-04/26/2024	6.88	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41
Architectural Coating	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.41

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

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

**4/14/2010 12:05:17 PM**

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 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%

The following mitigation measures apply to Phase: Architectural Coating 11/18/2022 - 4/26/2024 - Phase IV Coating

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:

ROG: 10%





4/14/2010 12:05:48 PM

2023	4.63	1.28	2.62	0.01	0.03	0.07	0.10	0.01	0.06	0.07	801.86
Building 10/21/2022-04/19/2024	0.24	1.27	2.61	0.01	0.03	0.07	0.09	0.01	0.06	0.07	796.61
Building Off Road Diesel	0.19	1.09	1.13	0.00	0.00	0.05	0.05	0.00	0.05	0.05	210.76
Building Vendor Trips	0.02	0.13	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	117.61
Building Worker Trips	0.03	0.06	1.31	0.00	0.02	0.01	0.03	0.01	0.01	0.02	468.24
Coating 11/18/2022-04/26/2024	4.39	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25
Architectural Coating	4.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25
2024	1.51	0.39	0.81	0.00	0.01	0.02	0.03	0.00	0.02	0.02	246.83
Building 10/21/2022-04/19/2024	0.07	0.39	0.80	0.00	0.01	0.02	0.03	0.00	0.02	0.02	245.11
Building Off Road Diesel	0.06	0.33	0.35	0.00	0.00	0.02	0.02	0.00	0.01	0.01	64.85
Building Vendor Trips	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.19
Building Worker Trips	0.01	0.02	0.40	0.00	0.01	0.00	0.01	0.00	0.00	0.01	144.08
Coating 11/18/2022-04/26/2024	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72
Architectural Coating	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72

Phase Assumptions

Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

Total Acres Disturbed: 13

Maximum Daily Acreage Disturbed: 2

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 6 hours per day

Page: 4

**4/14/2010 12:05:48 PM**

- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 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 11/7/2022 - 11/10/2022 - Phase IV Paving

Acres to be Paved: 2.3

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
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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 10/21/2022 - 4/19/2024 - Phase IV Building

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 11/18/2022 - 4/26/2024 - Phase IV Coating

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:



4/14/2010 12:05:48 PM

2023	2.98	1.28	2.62	0.01	0.03	0.07	0.10	0.01	0.06	0.07	801.86
Building 10/21/2022-04/19/2024	0.24	1.27	2.61	0.01	0.03	0.07	0.09	0.01	0.06	0.07	796.61
Building Off Road Diesel	0.19	1.09	1.13	0.00	0.00	0.05	0.05	0.00	0.05	0.05	210.76
Building Vendor Trips	0.02	0.13	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	117.61
Building Worker Trips	0.03	0.06	1.31	0.00	0.02	0.01	0.03	0.01	0.01	0.02	468.24
Coating 11/18/2022-04/26/2024	2.74	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25
Architectural Coating	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25
2024	0.36	0.39	0.81	0.00	0.01	0.02	0.03	0.00	0.02	0.02	246.83
Building 10/21/2022-04/19/2024	0.07	0.39	0.80	0.00	0.01	0.02	0.03	0.00	0.02	0.02	245.11
Building Off Road Diesel	0.06	0.33	0.35	0.00	0.00	0.02	0.02	0.00	0.01	0.01	64.85
Building Vendor Trips	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.19
Building Worker Trips	0.01	0.02	0.40	0.00	0.01	0.00	0.01	0.00	0.00	0.01	144.08
Coating 11/18/2022-04/26/2024	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72
Architectural Coating	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 8/1/2022 - 11/4/2022 - Phase IV Fine Grading

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

Page: 7

**4/14/2010 12:05:48 PM**

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 11/18/2022 - 4/26/2024 - Phase IV Coating

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:

ROG: 10%

Page: 1

4/14/2010 1:12:21 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase I Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	33.85	6.28	28.09	0.00	0.08	0.08	7,642.33
TOTALS (lbs/day, mitigated)	33.21	6.28	28.09	0.00	0.08	0.08	7,642.33
Percent Reduction	1.89	0.00	0.00	NaN	0.00	0.00	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 (lbs/day, unmitigated)	20.39	20.55	189.53	0.22	38.86	7.47	23,082.66
TOTALS (lbs/day, mitigated)	20.05	20.14	185.74	0.22	38.08	7.33	22,621.00
Percent Reduction	1.67	2.00	2.00	0.00	2.01	1.87	2.00

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)	54.24	26.83	217.62	0.22	38.94	7.55	30,724.99
TOTALS (lbs/day, mitigated)	53.26	26.42	213.83	0.22	38.16	7.41	30,263.33
Percent Reduction	1.81	1.53	1.74	0.00	2.00	1.85	1.50

4/14/2010 1:12:21 PM

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	0.46	5.98	2.73	0.00	0.01	0.01	7,599.97
Hearth - No Summer Emissions							
Landscape	3.80	0.30	25.36	0.00	0.07	0.07	42.36
Consumer Products	23.14						
Architectural Coatings	6.45						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>33.85</b>	<b>6.28</b>	<b>28.09</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>	<b>7,642.33</b>

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	0.46	5.98	2.73	0.00	0.01	0.01	7,599.97
Hearth - No Summer Emissions							
Landscape	3.80	0.30	25.36	0.00	0.07	0.07	42.36
Consumer Products	23.14						
Architectural Coatings	5.81						
<b>TOTALS (lbs/day, mitigated)</b>	<b>33.21</b>	<b>6.28</b>	<b>28.09</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>	<b>7,642.33</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.67	3.98	37.52	0.04	7.68	1.48	4,570.05
Retirement community	8.64	7.41	69.88	0.08	14.31	2.75	8,512.08
Regnl shop. center	4.81	5.43	48.49	0.06	9.95	1.91	5,896.42
General office building	0.29	0.32	2.99	0.00	0.61	0.12	365.02
Medical office building	2.98	3.41	30.65	0.04	6.31	1.21	3,739.09
<b>TOTALS (lbs/day, unmitigated)</b>	<b>20.39</b>	<b>20.55</b>	<b>189.53</b>	<b>0.22</b>	<b>38.86</b>	<b>7.47</b>	<b>23,082.66</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.60	3.90	36.77	0.04	7.53	1.45	4,478.64
Retirement community	8.52	7.26	68.48	0.08	14.02	2.70	8,341.84
Regnl shop. center	4.71	5.32	47.52	0.06	9.75	1.87	5,778.49
General office building	0.29	0.32	2.93	0.00	0.60	0.12	357.72
Medical office building	2.93	3.34	30.04	0.04	6.18	1.19	3,664.31
<b>TOTALS (lbs/day, mitigated)</b>	<b>20.05</b>	<b>20.14</b>	<b>185.74</b>	<b>0.22</b>	<b>38.08</b>	<b>7.33</b>	<b>22,621.00</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	50.00	2.81	dwelling units	395.00	1,109.95	8,308.27
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,707.31	22,566.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.2	99.6	0.2
Light Truck < 3750 lbs	14.0	1.4	92.2	6.4
Light Truck 3751-5750 lbs	22.4	0.4	99.6	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	73.1	26.9
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	50.9	49.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 1:12:56 PM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase I Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	30.27	9.69	4.31	0.02	0.31	0.31	12,332.91
TOTALS (lbs/day, mitigated)	29.63	9.69	4.31	0.02	0.31	0.31	12,332.91
Percent Reduction	2.11	0.00	0.00	0.00	0.00	0.00	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 (lbs/day, unmitigated)	21.05	29.53	215.54	0.19	38.86	7.47	20,116.36
TOTALS (lbs/day, mitigated)	20.64	28.95	211.23	0.19	38.08	7.33	19,714.04
Percent Reduction	1.95	1.96	2.00	0.00	2.01	1.87	2.00

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)	51.32	39.22	219.85	0.21	39.17	7.78	32,449.27
TOTALS (lbs/day, mitigated)	50.27	38.64	215.54	0.21	38.39	7.64	32,046.95
Percent Reduction	2.05	1.48	1.96	0.00	1.99	1.80	1.24

4/14/2010 1:12:56 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.46	5.98	2.73	0.00	0.01	0.01	7,599.97
Hearth	0.22	3.71	1.58	0.02	0.30	0.30	4,732.94
Landscaping - No Winter Emissions							
Consumer Products	23.14						
Architectural Coatings	6.45						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>30.27</b>	<b>9.69</b>	<b>4.31</b>	<b>0.02</b>	<b>0.31</b>	<b>0.31</b>	<b>12,332.91</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.46	5.98	2.73	0.00	0.01	0.01	7,599.97
Hearth	0.22	3.71	1.58	0.02	0.30	0.30	4,732.94
Landscaping - No Winter Emissions							
Consumer Products	23.14						
Architectural Coatings	5.81						
<b>TOTALS (lbs/day, mitigated)</b>	<b>29.63</b>	<b>9.69</b>	<b>4.31</b>	<b>0.02</b>	<b>0.31</b>	<b>0.31</b>	<b>12,332.91</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.87	5.73	41.53	0.04	7.68	1.48	3,983.71
Retirement community	7.22	10.67	77.35	0.07	14.31	2.75	7,419.99
Regnl shop. center	5.98	7.78	57.45	0.05	9.95	1.91	5,137.07
General office building	0.32	0.46	3.35	0.00	0.61	0.12	318.09
Medical office building	3.66	4.89	35.86	0.03	6.31	1.21	3,257.50
<b>TOTALS (lbs/day, unmitigated)</b>	<b>21.05</b>	<b>29.53</b>	<b>215.54</b>	<b>0.19</b>	<b>38.86</b>	<b>7.47</b>	<b>20,116.36</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.80	5.62	40.70	0.04	7.53	1.45	3,904.04
Retirement community	7.07	10.46	75.80	0.07	14.02	2.70	7,271.59
Regnl shop. center	5.86	7.62	56.30	0.05	9.75	1.87	5,034.33
General office building	0.32	0.46	3.28	0.00	0.60	0.12	311.73
Medical office building	3.59	4.79	35.15	0.03	6.18	1.19	3,192.35
<b>TOTALS (lbs/day, mitigated)</b>	<b>20.64</b>	<b>28.95</b>	<b>211.23</b>	<b>0.19</b>	<b>38.08</b>	<b>7.33</b>	<b>19,714.04</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	50.00	2.81	dwelling units	395.00	1,109.95	8,308.27
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,707.31	22,566.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.2	99.6	0.2
Light Truck < 3750 lbs	14.0	1.4	92.2	6.4
Light Truck 3751-5750 lbs	22.4	0.4	99.6	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	73.1	26.9
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	50.9	49.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 1:13:44 PM

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase I Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 (tons/year, unmitigated)	5.82	1.12	2.78	0.00	0.01	0.01	1,393.18
TOTALS (tons/year, mitigated)	5.70	1.12	2.78	0.00	0.01	0.01	1,393.18
Percent Reduction	2.06	0.00	0.00	NaN	0.00	0.00	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)	3.77	4.29	36.18	0.04	7.09	1.36	4,032.13
TOTALS (tons/year, mitigated)	3.69	4.22	35.45	0.04	6.95	1.33	3,951.50
Percent Reduction	2.12	1.63	2.02	0.00	1.97	2.21	2.00

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)	9.59	5.41	38.96	0.04	7.10	1.37	5,425.31
TOTALS (tons/year, mitigated)	9.39	5.34	38.23	0.04	6.96	1.34	5,344.68
Percent Reduction	2.09	1.29	1.87	0.00	1.97	2.19	1.49

4/14/2010 1:13:44 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.08	1.09	0.50	0.00	0.00	0.00	1,387.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	2.37
Landscape	0.34	0.03	2.28	0.00	0.01	0.01	3.81
Consumer Products	4.22						
Architectural Coatings	1.18						
<b>TOTALS (tons/year, unmitigated)</b>	<b>5.82</b>	<b>1.12</b>	<b>2.78</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>1,393.18</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.08	1.09	0.50	0.00	0.00	0.00	1,387.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	2.37
Landscape	0.34	0.03	2.28	0.00	0.01	0.01	3.81
Consumer Products	4.22						
Architectural Coatings	1.06						
<b>TOTALS (tons/year, mitigated)</b>	<b>5.70</b>	<b>1.12</b>	<b>2.78</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>1,393.18</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.68	0.83	7.09	0.01	1.40	0.27	798.36
Retirement community	1.49	1.55	13.21	0.01	2.61	0.50	1,487.02
Regnl shop. center	0.95	1.13	9.40	0.01	1.82	0.35	1,029.90
General office building	0.06	0.07	0.57	0.00	0.11	0.02	63.76
Medical office building	0.59	0.71	5.91	0.01	1.15	0.22	653.09
<b>TOTALS (tons/year, unmitigated)</b>	<b>3.77</b>	<b>4.29</b>	<b>36.18</b>	<b>0.04</b>	<b>7.09</b>	<b>1.36</b>	<b>4,032.13</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.67	0.82	6.95	0.01	1.37	0.26	782.40
Retirement community	1.47	1.52	12.94	0.01	2.56	0.49	1,457.28
Regnl shop. center	0.93	1.11	9.21	0.01	1.78	0.34	1,009.30
General office building	0.05	0.07	0.56	0.00	0.11	0.02	62.49
Medical office building	0.57	0.70	5.79	0.01	1.13	0.22	640.03
<b>TOTALS (tons/year, mitigated)</b>	<b>3.69</b>	<b>4.22</b>	<b>35.45</b>	<b>0.04</b>	<b>6.95</b>	<b>1.33</b>	<b>3,951.50</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	50.00	2.81	dwelling units	395.00	1,109.95	8,308.27
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,707.31	22,566.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.2	99.6	0.2
Light Truck < 3750 lbs	14.0	1.4	92.2	6.4
Light Truck 3751-5750 lbs	22.4	0.4	99.6	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	73.1	26.9
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	50.9	49.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 1:29:48 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase II Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	35.37	6.55	29.14	0.00	0.09	0.09	7,979.75
TOTALS (lbs/day, mitigated)	34.70	6.55	29.14	0.00	0.09	0.09	7,979.75
Percent Reduction	1.89	0.00	0.00	NaN	0.00	0.00	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 (lbs/day, unmitigated)	17.79	16.25	157.78	0.23	39.57	7.58	23,553.95
TOTALS (lbs/day, mitigated)	17.51	15.94	154.61	0.23	38.79	7.42	23,082.86
Percent Reduction	1.57	1.91	2.01	0.00	1.97	2.11	2.00

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)	53.16	22.80	186.92	0.23	39.66	7.67	31,533.70
TOTALS (lbs/day, mitigated)	52.21	22.49	183.75	0.23	38.88	7.51	31,062.61
Percent Reduction	1.79	1.36	1.70	0.00	1.97	2.09	1.49

4/14/2010 1:29:48 PM

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	0.48	6.24	2.84	0.00	0.01	0.01	7,935.89
Hearth - No Summer Emissions							
Landscape	3.97	0.31	26.30	0.00	0.08	0.08	43.86
Consumer Products	24.17						
Architectural Coatings	6.75						
TOTALS (lbs/day, unmitigated)	35.37	6.55	29.14	0.00	0.09	0.09	7,979.75

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	0.48	6.24	2.84	0.00	0.01	0.01	7,935.89
Hearth - No Summer Emissions							
Landscape	3.97	0.31	26.30	0.00	0.08	0.08	43.86
Consumer Products	24.17						
Architectural Coatings	6.08						
TOTALS (lbs/day, mitigated)	34.70	6.55	29.14	0.00	0.09	0.09	7,979.75

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.12	3.08	30.64	0.04	7.67	1.47	4,573.86
Retirement community	7.82	6.05	60.10	0.09	15.05	2.88	8,972.11
Regnl shop. center	4.07	4.22	39.58	0.06	9.94	1.90	5,900.75
General office building	0.25	0.25	2.44	0.00	0.61	0.12	365.32
Medical office building	2.53	2.65	25.02	0.04	6.30	1.21	3,741.91
<b>TOTALS (lbs/day, unmitigated)</b>	<b>17.79</b>	<b>16.25</b>	<b>157.78</b>	<b>0.23</b>	<b>39.57</b>	<b>7.58</b>	<b>23,553.95</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.07	3.02	30.02	0.04	7.52	1.44	4,482.38
Retirement community	7.72	5.93	58.89	0.09	14.75	2.82	8,792.67
Regnl shop. center	4.00	4.14	38.79	0.06	9.74	1.86	5,782.73
General office building	0.24	0.25	2.39	0.00	0.60	0.12	358.01
Medical office building	2.48	2.60	24.52	0.04	6.18	1.18	3,667.07
<b>TOTALS (lbs/day, mitigated)</b>	<b>17.51</b>	<b>15.94</b>	<b>154.61</b>	<b>0.23</b>	<b>38.79</b>	<b>7.42</b>	<b>23,082.86</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	57.00	2.81	dwelling units	416.00	1,168.96	8,749.97
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,766.32	23,008.30

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	39.9	0.0	99.7	0.3
Light Truck < 3750 lbs	14.0	0.7	94.3	5.0
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.7	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	43.6	56.4	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 1:30:24 PM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase II Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	31.63	10.12	4.49	0.02	0.32	0.32	12,891.18
TOTALS (lbs/day, mitigated)	30.96	10.12	4.49	0.02	0.32	0.32	12,891.18
Percent Reduction	2.12	0.00	0.00	0.00	0.00	0.00	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 (lbs/day, unmitigated)	17.85	23.45	177.21	0.20	39.57	7.58	20,514.81
TOTALS (lbs/day, mitigated)	17.49	22.96	173.68	0.20	38.79	7.42	20,104.51
Percent Reduction	2.02	2.09	1.99	0.00	1.97	2.11	2.00

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)	49.48	33.57	181.70	0.22	39.89	7.90	33,405.99
TOTALS (lbs/day, mitigated)	48.45	33.08	178.17	0.22	39.11	7.74	32,995.69
Percent Reduction	2.08	1.46	1.94	0.00	1.96	2.03	1.23

4/14/2010 1:30:24 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.48	6.24	2.84	0.00	0.01	0.01	7,935.89
Hearth	0.23	3.88	1.65	0.02	0.31	0.31	4,955.29
Landscaping - No Winter Emissions							
Consumer Products	24.17						
Architectural Coatings	6.75						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>31.63</b>	<b>10.12</b>	<b>4.49</b>	<b>0.02</b>	<b>0.32</b>	<b>0.32</b>	<b>12,891.18</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.48	6.24	2.84	0.00	0.01	0.01	7,935.89
Hearth	0.23	3.88	1.65	0.02	0.31	0.31	4,955.29
Landscaping - No Winter Emissions							
Consumer Products	24.17						
Architectural Coatings	6.08						
<b>TOTALS (lbs/day, mitigated)</b>	<b>30.96</b>	<b>10.12</b>	<b>4.49</b>	<b>0.02</b>	<b>0.32</b>	<b>0.32</b>	<b>12,891.18</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.22	4.46	33.49	0.04	7.67	1.47	3,984.66
Retirement community	6.33	8.75	65.70	0.08	15.05	2.88	7,816.34
Regnl shop. center	4.98	6.07	46.38	0.05	9.94	1.90	5,137.70
General office building	0.27	0.36	2.70	0.00	0.61	0.12	318.15
Medical office building	3.05	3.81	28.94	0.03	6.30	1.21	3,257.96
<b>TOTALS (lbs/day, unmitigated)</b>	<b>17.85</b>	<b>23.45</b>	<b>177.21</b>	<b>0.20</b>	<b>39.57</b>	<b>7.58</b>	<b>20,514.81</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	3.16	4.37	32.82	0.04	7.52	1.44	3,904.97
Retirement community	6.20	8.57	64.39	0.08	14.75	2.82	7,660.01
Regnl shop. center	4.88	5.94	45.45	0.05	9.74	1.86	5,034.94
General office building	0.26	0.35	2.65	0.00	0.60	0.12	311.79
Medical office building	2.99	3.73	28.37	0.03	6.18	1.18	3,192.80
<b>TOTALS (lbs/day, mitigated)</b>	<b>17.49</b>	<b>22.96</b>	<b>173.68</b>	<b>0.20</b>	<b>38.79</b>	<b>7.42</b>	<b>20,104.51</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	57.00	2.81	dwelling units	416.00	1,168.96	8,749.97
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,766.32	23,008.30

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	39.9	0.0	99.7	0.3
Light Truck < 3750 lbs	14.0	0.7	94.3	5.0
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.7	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	43.6	56.4	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 1:30:59 PM

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase II Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 (tons/year, unmitigated)	6.09	1.17	2.89	0.00	0.01	0.01	1,454.73
TOTALS (tons/year, mitigated)	5.97	1.17	2.89	0.00	0.01	0.01	1,454.73
Percent Reduction	1.97	0.00	0.00	NaN	0.00	0.00	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)	3.26	3.40	29.99	0.05	7.22	1.39	4,113.72
TOTALS (tons/year, mitigated)	3.20	3.33	29.37	0.05	7.08	1.36	4,031.45
Percent Reduction	1.84	2.06	2.07	0.00	1.94	2.16	2.00

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)	9.35	4.57	32.88	0.05	7.23	1.40	5,568.45
TOTALS (tons/year, mitigated)	9.17	4.50	32.26	0.05	7.09	1.37	5,486.18
Percent Reduction	1.93	1.53	1.89	0.00	1.94	2.14	1.48

4/14/2010 1:30:59 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.09	1.14	0.52	0.00	0.00	0.00	1,448.30
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	2.48
Landscape	0.36	0.03	2.37	0.00	0.01	0.01	3.95
Consumer Products	4.41						
Architectural Coatings	1.23						
<b>TOTALS (tons/year, unmitigated)</b>	<b>6.09</b>	<b>1.17</b>	<b>2.89</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>1,454.73</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.09	1.14	0.52	0.00	0.00	0.00	1,448.30
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	2.48
Landscape	0.36	0.03	2.37	0.00	0.01	0.01	3.95
Consumer Products	4.41						
Architectural Coatings	1.11						
<b>TOTALS (tons/year, mitigated)</b>	<b>5.97</b>	<b>1.17</b>	<b>2.89</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>1,454.73</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.58	0.65	5.77	0.01	1.40	0.27	798.89
Retirement community	1.34	1.27	11.31	0.02	2.75	0.53	1,567.10
Regnl shop. center	0.80	0.88	7.64	0.01	1.81	0.35	1,030.47
General office building	0.05	0.05	0.46	0.00	0.11	0.02	63.80
Medical office building	0.49	0.55	4.81	0.01	1.15	0.22	653.46
<b>TOTALS (tons/year, unmitigated)</b>	<b>3.26</b>	<b>3.40</b>	<b>29.99</b>	<b>0.05</b>	<b>7.22</b>	<b>1.39</b>	<b>4,113.72</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.57	0.63	5.65	0.01	1.37	0.26	782.91
Retirement community	1.32	1.24	11.08	0.02	2.69	0.52	1,535.76
Regnl shop. center	0.78	0.87	7.48	0.01	1.78	0.34	1,009.86
General office building	0.05	0.05	0.45	0.00	0.11	0.02	62.53
Medical office building	0.48	0.54	4.71	0.01	1.13	0.22	640.39
<b>TOTALS (tons/year, mitigated)</b>	<b>3.20</b>	<b>3.33</b>	<b>29.37</b>	<b>0.05</b>	<b>7.08</b>	<b>1.36</b>	<b>4,031.45</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	57.00	2.81	dwelling units	416.00	1,168.96	8,749.97
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	20.00	722.60	3,663.83
					3,766.32	23,008.30

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	39.9	0.0	99.7	0.3
Light Truck < 3750 lbs	14.0	0.7	94.3	5.0
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.7	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	43.6	56.4	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
Medical office building				7.0	3.5	89.5

Page: 1

4/14/2010 3:31:35 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase III Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	44.89	9.04	37.44	0.00	0.12	0.12	10,992.68
TOTALS (lbs/day, mitigated)	43.98	9.04	37.44	0.00	0.12	0.12	10,992.68
Percent Reduction	2.03	0.00	0.00	NaN	0.00	0.00	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 (lbs/day, unmitigated)	32.43	28.82	290.43	0.47	81.28	15.52	48,406.00
TOTALS (lbs/day, mitigated)	31.87	28.24	284.64	0.45	79.67	15.21	47,437.86
Percent Reduction	1.73	2.01	1.99	4.26	1.98	2.00	2.00

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)	77.32	37.86	327.87	0.47	81.40	15.64	59,398.68
TOTALS (lbs/day, mitigated)	75.85	37.28	322.08	0.45	79.79	15.33	58,430.54
Percent Reduction	1.90	1.53	1.77	4.26	1.98	1.98	1.63

4/14/2010 3:31:35 PM

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	0.66	8.65	4.24	0.00	0.02	0.02	10,937.41
Hearth - No Summer Emissions							
Landscape	5.06	0.39	33.20	0.00	0.10	0.10	55.27
Consumer Products	30.04						
Architectural Coatings	9.13						
TOTALS (lbs/day, unmitigated)	44.89	9.04	37.44	0.00	0.12	0.12	10,992.68

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	0.66	8.65	4.24	0.00	0.02	0.02	10,937.41
Hearth - No Summer Emissions							
Landscape	5.06	0.39	33.20	0.00	0.10	0.10	55.27
Consumer Products	30.04						
Architectural Coatings	8.22						
TOTALS (lbs/day, mitigated)	43.98	9.04	37.44	0.00	0.12	0.12	10,992.68

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.88	2.63	27.41	0.04	7.67	1.46	4,575.85
Retirement community	10.57	8.00	83.34	0.14	23.31	4.45	13,911.23
Racquetball/health	4.53	4.19	41.33	0.07	11.42	2.18	6,805.21
Regnl shop. center	3.75	3.61	35.42	0.06	9.93	1.90	5,903.03
General office building	0.23	0.21	2.18	0.00	0.61	0.12	365.47
Medical office building	10.47	10.18	100.75	0.16	28.34	5.41	16,845.21
TOTALS (lbs/day, unmitigated)	32.43	28.82	290.43	0.47	81.28	15.52	48,406.00

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.83	2.58	26.87	0.04	7.52	1.44	4,484.33
Retirement community	10.42	7.84	81.68	0.13	22.85	4.36	13,633.00
Racquetball/health	4.44	4.10	40.51	0.06	11.19	2.14	6,669.10
Regnl shop. center	3.68	3.53	34.71	0.06	9.73	1.86	5,784.97
General office building	0.23	0.21	2.14	0.00	0.60	0.11	358.16
Medical office building	10.27	9.98	98.73	0.16	27.78	5.30	16,508.30
TOTALS (lbs/day, mitigated)	31.87	28.24	284.64	0.45	79.67	15.21	47,437.86

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2019 Temperature (F): 85 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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	67.00	3.38	dwelling units	536.00	1,811.68	13,560.90
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,419.99	47,284.21

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/14/2010 3:32:05 PM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase III Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	40.12	13.53	6.32	0.03	0.41	0.41	17,163.29
TOTALS (lbs/day, mitigated)	39.21	13.53	6.32	0.03	0.41	0.41	17,163.29
Percent Reduction	2.27	0.00	0.00	0.00	0.00	0.00	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 (lbs/day, unmitigated)	34.61	41.68	327.96	0.42	81.28	15.52	42,119.64
TOTALS (lbs/day, mitigated)	33.90	40.84	321.40	0.41	79.67	15.21	41,277.23
Percent Reduction	2.05	2.02	2.00	2.38	1.98	2.00	2.00

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)	74.73	55.21	334.28	0.45	81.69	15.93	59,282.93
TOTALS (lbs/day, mitigated)	73.11	54.37	327.72	0.44	80.08	15.62	58,440.52
Percent Reduction	2.17	1.52	1.96	2.22	1.97	1.95	1.42

4/14/2010 3:32:05 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.66	8.65	4.24	0.00	0.02	0.02	10,937.41
Hearth	0.29	4.88	2.08	0.03	0.39	0.39	6,225.88
Landscaping - No Winter Emissions							
Consumer Products	30.04						
Architectural Coatings	9.13						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>40.12</b>	<b>13.53</b>	<b>6.32</b>	<b>0.03</b>	<b>0.41</b>	<b>0.41</b>	<b>17,163.29</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.66	8.65	4.24	0.00	0.02	0.02	10,937.41
Hearth	0.29	4.88	2.08	0.03	0.39	0.39	6,225.88
Landscaping - No Winter Emissions							
Consumer Products	30.04						
Architectural Coatings	8.22						
<b>TOTALS (lbs/day, mitigated)</b>	<b>39.21</b>	<b>13.53</b>	<b>6.32</b>	<b>0.03</b>	<b>0.41</b>	<b>0.41</b>	<b>17,163.29</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.94	3.82	29.78	0.04	7.67	1.46	3,982.82
Retirement community	8.94	11.61	90.52	0.12	23.31	4.45	12,108.33
Racquetball/health	5.41	6.04	48.29	0.06	11.42	2.18	5,922.22
Regnl shop. center	4.55	5.20	41.21	0.05	9.93	1.90	5,135.01
General office building	0.24	0.31	2.40	0.00	0.61	0.12	318.00
Medical office building	12.53	14.70	115.76	0.15	28.34	5.41	14,653.26
TOTALS (lbs/day, unmitigated)	34.61	41.68	327.96	0.42	81.28	15.52	42,119.64

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.88	3.74	29.18	0.04	7.52	1.44	3,903.16
Retirement community	8.76	11.38	88.71	0.12	22.85	4.36	11,866.16
Racquetball/health	5.30	5.91	47.33	0.06	11.19	2.14	5,803.77
Regnl shop. center	4.45	5.10	40.39	0.05	9.73	1.86	5,032.31
General office building	0.24	0.30	2.35	0.00	0.60	0.11	311.64
Medical office building	12.27	14.41	113.44	0.14	27.78	5.30	14,360.19
TOTALS (lbs/day, mitigated)	33.90	40.84	321.40	0.41	79.67	15.21	41,277.23

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2019 Temperature (F): 40 Season: Winter

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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	67.00	3.38	dwelling units	536.00	1,811.68	13,560.90
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,419.99	47,284.21

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/14/2010 3:32:38 PM

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase III Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 (tons/year, unmitigated)	7.73	1.62	3.76	0.00	0.01	0.01	2,004.16
TOTALS (tons/year, mitigated)	7.56	1.62	3.76	0.00	0.01	0.01	2,004.16
Percent Reduction	2.20	0.00	0.00	NaN	0.00	0.00	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)	6.05	6.04	55.30	0.08	14.82	2.84	8,451.67
TOTALS (tons/year, mitigated)	5.94	5.92	54.17	0.08	14.54	2.78	8,282.64
Percent Reduction	1.82	1.99	2.04	0.00	1.89	2.11	2.00

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)	13.78	7.66	59.06	0.08	14.83	2.85	10,455.83
TOTALS (tons/year, mitigated)	13.50	7.54	57.93	0.08	14.55	2.79	10,286.80
Percent Reduction	2.03	1.57	1.91	0.00	1.89	2.11	1.62

4/14/2010 3:32:38 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.12	1.58	0.77	0.00	0.00	0.00	1,996.08
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.11
Landscape	0.46	0.04	2.99	0.00	0.01	0.01	4.97
Consumer Products	5.48						
Architectural Coatings	1.67						
<b>TOTALS (tons/year, unmitigated)</b>	<b>7.73</b>	<b>1.62</b>	<b>3.76</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>2,004.16</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.12	1.58	0.77	0.00	0.00	0.00	1,996.08
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.11
Landscape	0.46	0.04	2.99	0.00	0.01	0.01	4.97
Consumer Products	5.48						
Architectural Coatings	1.50						
<b>TOTALS (tons/year, mitigated)</b>	<b>7.56</b>	<b>1.62</b>	<b>3.76</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>2,004.16</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.53	0.55	5.15	0.01	1.40	0.27	799.02
Retirement community	1.83	1.68	15.65	0.02	4.25	0.81	2,429.12
Racquetball/health	0.88	0.88	7.97	0.01	2.08	0.40	1,188.23
Regnl shop. center	0.73	0.76	6.82	0.01	1.81	0.35	1,030.58
General office building	0.04	0.04	0.41	0.00	0.11	0.02	63.81
Medical office building	2.04	2.13	19.30	0.03	5.17	0.99	2,940.91
TOTALS (tons/year, unmitigated)	6.05	6.04	55.30	0.08	14.82	2.84	8,451.67

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.52	0.54	5.04	0.01	1.37	0.26	783.04
Retirement community	1.80	1.65	15.33	0.02	4.17	0.80	2,380.54
Racquetball/health	0.86	0.86	7.81	0.01	2.04	0.39	1,164.47
Regnl shop. center	0.72	0.74	6.68	0.01	1.78	0.34	1,009.97
General office building	0.04	0.04	0.40	0.00	0.11	0.02	62.53
Medical office building	2.00	2.09	18.91	0.03	5.07	0.97	2,882.09
TOTALS (tons/year, mitigated)	5.94	5.92	54.17	0.08	14.54	2.78	8,282.64

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2019 Season: Annual

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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	67.00	3.38	dwelling units	536.00	1,811.68	13,560.90
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,419.99	47,284.21

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/14/2010 3:28:32 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase IV Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	62.51	12.23	49.63	0.00	0.15	0.14	14,913.19
TOTALS (lbs/day, mitigated)	61.25	12.23	49.63	0.00	0.15	0.14	14,913.19
Percent Reduction	2.02	0.00	0.00	NaN	0.00	0.00	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 (lbs/day, unmitigated)	30.32	21.50	245.70	0.49	86.08	16.38	51,177.79
TOTALS (lbs/day, mitigated)	29.80	21.07	240.80	0.48	84.36	16.04	50,154.22
Percent Reduction	1.72	2.00	1.99	2.04	2.00	2.08	2.00

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)	92.83	33.73	295.33	0.49	86.23	16.52	66,090.98
TOTALS (lbs/day, mitigated)	91.05	33.30	290.43	0.48	84.51	16.18	65,067.41
Percent Reduction	1.92	1.27	1.66	2.04	1.99	2.06	1.55

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	0.90	11.71	5.54	0.00	0.02	0.02	14,840.43
Hearth - No Summer Emissions							
Landscape	7.03	0.52	44.09	0.00	0.13	0.12	72.76
Consumer Products	41.98						
Architectural Coatings	12.60						
TOTALS (lbs/day, unmitigated)	62.51	12.23	49.63	0.00	0.15	0.14	14,913.19

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	0.90	11.71	5.54	0.00	0.02	0.02	14,840.43
Hearth - No Summer Emissions							
Landscape	7.03	0.52	44.09	0.00	0.13	0.12	72.76
Consumer Products	41.98						
Architectural Coatings	11.34						
TOTALS (lbs/day, mitigated)	61.25	12.23	49.63	0.00	0.15	0.14	14,913.19

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.47	1.86	21.87	0.04	7.66	1.46	4,562.82
Retirement community	11.59	6.82	80.45	0.16	28.17	5.36	16,782.10
Racquetball/health	3.87	2.95	32.95	0.07	11.41	2.17	6,785.64
Regnl shop. center	3.21	2.54	28.27	0.06	9.92	1.89	5,886.03
General office building	0.20	0.15	1.74	0.00	0.61	0.12	364.43
Medical office building	8.98	7.18	80.42	0.16	28.31	5.38	16,796.77
TOTALS (lbs/day, unmitigated)	30.32	21.50	245.70	0.49	86.08	16.38	51,177.79

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.42	1.82	21.44	0.04	7.51	1.43	4,471.56
Retirement community	11.44	6.69	78.84	0.16	27.61	5.25	16,446.46
Racquetball/health	3.80	2.89	32.29	0.06	11.18	2.13	6,649.92
Regnl shop. center	3.15	2.49	27.70	0.06	9.72	1.85	5,768.31
General office building	0.19	0.15	1.71	0.00	0.60	0.11	357.14
Medical office building	8.80	7.03	78.82	0.16	27.74	5.27	16,460.83
TOTALS (lbs/day, mitigated)	29.80	21.07	240.80	0.48	84.36	16.04	50,154.22

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2025 Temperature (F): 85 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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	80.00	2.81	dwelling units	780.00	2,191.80	16,406.20
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,800.11	50,129.51

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.3	0.0	100.0	0.0
Light Truck < 3750 lbs	13.9	0.0	97.8	2.2
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.0	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	34.5	65.5	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/14/2010 3:28:59 PM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase IV Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	55.88	18.61	8.48	0.04	0.58	0.57	23,649.84
TOTALS (lbs/day, mitigated)	54.62	18.61	8.48	0.04	0.58	0.57	23,649.84
Percent Reduction	2.25	0.00	0.00	0.00	0.00	0.00	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 (lbs/day, unmitigated)	30.77	31.43	275.22	0.44	86.08	16.38	44,463.80
TOTALS (lbs/day, mitigated)	30.15	30.81	269.73	0.43	84.36	16.04	43,574.53
Percent Reduction	2.01	1.97	1.99	2.27	2.00	2.08	2.00

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)	86.65	50.04	283.70	0.48	86.66	16.95	68,113.64
TOTALS (lbs/day, mitigated)	84.77	49.42	278.21	0.47	84.94	16.61	67,224.37
Percent Reduction	2.17	1.24	1.94	2.08	1.98	2.01	1.31

4/14/2010 3:28:59 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.90	11.71	5.54	0.00	0.02	0.02	14,840.43
Hearth	0.40	6.90	2.94	0.04	0.56	0.55	8,809.41
Landscaping - No Winter Emissions							
Consumer Products	41.98						
Architectural Coatings	12.60						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>55.88</b>	<b>18.61</b>	<b>8.48</b>	<b>0.04</b>	<b>0.58</b>	<b>0.57</b>	<b>23,649.84</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.90	11.71	5.54	0.00	0.02	0.02	14,840.43
Hearth	0.40	6.90	2.94	0.04	0.56	0.55	8,809.41
Landscaping - No Winter Emissions							
Consumer Products	41.98						
Architectural Coatings	11.34						
<b>TOTALS (lbs/day, mitigated)</b>	<b>54.62</b>	<b>18.61</b>	<b>8.48</b>	<b>0.04</b>	<b>0.58</b>	<b>0.57</b>	<b>23,649.84</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.49	2.72	23.70	0.04	7.66	1.46	3,965.40
Retirement community	9.17	10.02	87.17	0.15	28.17	5.36	14,584.77
Racquetball/health	4.54	4.30	38.15	0.06	11.41	2.17	5,896.11
Regnl shop. center	3.82	3.70	32.60	0.05	9.92	1.89	5,112.33
General office building	0.21	0.22	1.91	0.00	0.61	0.12	316.60
Medical office building	10.54	10.47	91.69	0.14	28.31	5.38	14,588.59
<b>TOTALS (lbs/day, unmitigated)</b>	<b>30.77</b>	<b>31.43</b>	<b>275.22</b>	<b>0.44</b>	<b>86.08</b>	<b>16.38</b>	<b>44,463.80</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.44	2.67	23.23	0.04	7.51	1.43	3,886.09
Retirement community	8.99	9.82	85.43	0.14	27.61	5.25	14,293.08
Racquetball/health	4.45	4.21	37.39	0.06	11.18	2.13	5,778.19
Regnl shop. center	3.74	3.63	31.95	0.05	9.72	1.85	5,010.08
General office building	0.20	0.22	1.87	0.00	0.60	0.11	310.27
Medical office building	10.33	10.26	89.86	0.14	27.74	5.27	14,296.82
<b>TOTALS (lbs/day, mitigated)</b>	<b>30.15</b>	<b>30.81</b>	<b>269.73</b>	<b>0.43</b>	<b>84.36</b>	<b>16.04</b>	<b>43,574.53</b>

Operational Settings:

Includes correction for passby trips

4/14/2010 3:28:59 PM

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2025 Temperature (F): 40 Season: Winter

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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	80.00	2.81	dwelling units	780.00	2,191.80	16,406.20
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,800.11	50,129.51

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.3	0.0	100.0	0.0
Light Truck < 3750 lbs	13.9	0.0	97.8	2.2
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.0	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	34.5	65.5	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/14/2010 3:29:26 PM

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Medical Office Building\Timberline - Phase IV Operational Emissions (with MO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 (tons/year, unmitigated)	10.75	2.19	4.98	0.00	0.01	0.01	2,719.33
TOTALS (tons/year, mitigated)	10.52	2.19	4.98	0.00	0.01	0.01	2,719.33
Percent Reduction	2.14	0.00	0.00	NaN	0.00	0.00	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)	5.56	4.52	46.63	0.09	15.71	2.99	8,931.51
TOTALS (tons/year, mitigated)	5.46	4.43	45.70	0.09	15.39	2.93	8,752.88
Percent Reduction	1.80	1.99	1.99	0.00	2.04	2.01	2.00

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)	16.31	6.71	51.61	0.09	15.72	3.00	11,650.84
TOTALS (tons/year, mitigated)	15.98	6.62	50.68	0.09	15.40	2.94	11,472.21
Percent Reduction	2.02	1.34	1.80	0.00	2.04	2.00	1.53

4/14/2010 3:29:26 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.16	2.14	1.01	0.00	0.00	0.00	2,708.38
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	4.40
Landscape	0.63	0.05	3.97	0.00	0.01	0.01	6.55
Consumer Products	7.66						
Architectural Coatings	2.30						
<b>TOTALS (tons/year, unmitigated)</b>	<b>10.75</b>	<b>2.19</b>	<b>4.98</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>2,719.33</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, 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	0.16	2.14	1.01	0.00	0.00	0.00	2,708.38
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	4.40
Landscape	0.63	0.05	3.97	0.00	0.01	0.01	6.55
Consumer Products	7.66						
Architectural Coatings	2.07						
<b>TOTALS (tons/year, mitigated)</b>	<b>10.52</b>	<b>2.19</b>	<b>4.98</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>2,719.33</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.45	0.39	4.10	0.01	1.40	0.27	796.37
Retirement community	1.97	1.44	15.09	0.03	5.14	0.98	2,929.06
Racquetball/health	0.75	0.62	6.33	0.01	2.08	0.40	1,184.27
Regnl shop. center	0.62	0.53	5.42	0.01	1.81	0.34	1,027.13
General office building	0.04	0.03	0.33	0.00	0.11	0.02	63.60
Medical office building	1.73	1.51	15.36	0.03	5.17	0.98	2,931.08
TOTALS (tons/year, unmitigated)	5.56	4.52	46.63	0.09	15.71	2.99	8,931.51

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.44	0.38	4.02	0.01	1.37	0.26	780.44
Retirement community	1.94	1.41	14.79	0.03	5.04	0.96	2,870.48
Racquetball/health	0.73	0.61	6.20	0.01	2.04	0.39	1,160.58
Regnl shop. center	0.61	0.52	5.31	0.01	1.77	0.34	1,006.59
General office building	0.04	0.03	0.32	0.00	0.11	0.02	62.33
Medical office building	1.70	1.48	15.06	0.03	5.06	0.96	2,872.46
TOTALS (tons/year, mitigated)	5.46	4.43	45.70	0.09	15.39	2.93	8,752.88

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Analysis Year: 2025 Season: Annual

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
Apartments low rise	5.00	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	80.00	2.81	dwelling units	780.00	2,191.80	16,406.20
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	5.00	55.05	357.06
Medical office building		36.13	1000 sq ft	90.00	3,251.70	16,487.22
					8,800.11	50,129.51

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.3	0.0	100.0	0.0
Light Truck < 3750 lbs	13.9	0.0	97.8	2.2
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.0	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	34.5	65.5	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)

Racquetball/health	5.0	2.5	92.5
Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
Medical office building	7.0	3.5	89.5

Page: 1

4/21/2010 11:05:33 AM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Professional Office\Timberline - Phase IV Operational Emissions (with PO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	55.52	11.22	43.39	0.00	0.13	0.13	13,679.69
TOTALS (lbs/day, mitigated)	55.52	11.22	43.39	0.00	0.13	0.13	13,679.69
Percent Reduction	0.00	0.00	0.00	NaN	0.00	0.00	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 (lbs/day, unmitigated)	29.46	24.86	253.32	0.41	70.84	13.52	42,211.16
TOTALS (lbs/day, mitigated)	28.98	24.35	248.27	0.40	69.41	13.27	41,366.93
Percent Reduction	1.63	2.05	1.99	2.44	2.02	1.85	2.00

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)	84.98	36.08	296.71	0.41	70.97	13.65	55,890.85
TOTALS (lbs/day, mitigated)	84.50	35.57	291.66	0.40	69.54	13.40	55,046.62
Percent Reduction	0.56	1.41	1.70	2.44	2.01	1.83	1.51

4/21/2010 11:05:33 AM

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	0.82	10.77	5.26	0.00	0.02	0.02	13,616.83
Hearth - No Summer Emissions							
Landscape	6.11	0.45	38.13	0.00	0.11	0.11	62.86
Consumer Products	37.13						
Architectural Coatings	11.46						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>55.52</b>	<b>11.22</b>	<b>43.39</b>	<b>0.00</b>	<b>0.13</b>	<b>0.13</b>	<b>13,679.69</b>

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	0.82	10.77	5.26	0.00	0.02	0.02	13,616.83
Hearth - No Summer Emissions							
Landscape	6.11	0.45	38.13	0.00	0.11	0.11	62.86
Consumer Products	37.13						
Architectural Coatings	11.46						
<b>TOTALS (lbs/day, mitigated)</b>	<b>55.52</b>	<b>11.22</b>	<b>43.39</b>	<b>0.00</b>	<b>0.13</b>	<b>0.13</b>	<b>13,679.69</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.88	2.63	27.41	0.04	7.67	1.46	4,575.85
Retirement community	11.87	8.45	88.03	0.14	24.63	4.70	14,693.91
Racquetball/health	4.53	4.19	41.33	0.07	11.42	2.18	6,805.21
Regnl shop. center	3.75	3.61	35.42	0.06	9.93	1.90	5,903.03
General office building	6.43	5.98	61.13	0.10	17.19	3.28	10,233.16
<b>TOTALS (lbs/day, unmitigated)</b>	<b>29.46</b>	<b>24.86</b>	<b>253.32</b>	<b>0.41</b>	<b>70.84</b>	<b>13.52</b>	<b>42,211.16</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.83	2.58	26.87	0.04	7.52	1.44	4,484.33
Retirement community	11.71	8.28	86.27	0.14	24.13	4.61	14,400.03
Racquetball/health	4.44	4.10	40.51	0.06	11.19	2.14	6,669.10
Regnl shop. center	3.68	3.53	34.71	0.06	9.73	1.86	5,784.97
General office building	6.32	5.86	59.91	0.10	16.84	3.22	10,028.50
<b>TOTALS (lbs/day, mitigated)</b>	<b>28.98</b>	<b>24.35</b>	<b>248.27</b>	<b>0.40</b>	<b>69.41</b>	<b>13.27</b>	<b>41,366.93</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	4.88	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	136.20	2.81	dwelling units	681.00	1,913.61	14,323.87
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	140.00	1,541.40	9,997.60
					6,756.57	41,200.50

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Racquetball/health				5.0	2.5	92.5
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5

Page: 1

4/21/2010 11:07:50 AM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Professional Office\Timberline - Phase IV Operational Emissions (with PO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	49.77	16.85	7.85	0.04	0.51	0.51	21,378.01
TOTALS (lbs/day, mitigated)	49.77	16.85	7.85	0.04	0.51	0.51	21,378.01
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	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 (lbs/day, unmitigated)	29.20	36.00	282.16	0.37	70.84	13.52	36,733.62
TOTALS (lbs/day, mitigated)	28.60	35.27	276.53	0.36	69.41	13.27	35,998.94
Percent Reduction	2.05	2.03	2.00	2.70	2.02	1.85	2.00

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)	78.97	52.85	290.01	0.41	71.35	14.03	58,111.63
TOTALS (lbs/day, mitigated)	78.37	52.12	284.38	0.40	69.92	13.78	57,376.95
Percent Reduction	0.76	1.38	1.94	2.44	2.00	1.78	1.26

4/21/2010 11:07:50 AM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.82	10.77	5.26	0.00	0.02	0.02	13,616.83
Hearth	0.36	6.08	2.59	0.04	0.49	0.49	7,761.18
Landscaping - No Winter Emissions							
Consumer Products	37.13						
Architectural Coatings	11.46						
<b>TOTALS (lbs/day, unmitigated)</b>	<b>49.77</b>	<b>16.85</b>	<b>7.85</b>	<b>0.04</b>	<b>0.51</b>	<b>0.51</b>	<b>21,378.01</b>

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter 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	0.82	10.77	5.26	0.00	0.02	0.02	13,616.83
Hearth	0.36	6.08	2.59	0.04	0.49	0.49	7,761.18
Landscaping - No Winter Emissions							
Consumer Products	37.13						
Architectural Coatings	11.46						
<b>TOTALS (lbs/day, mitigated)</b>	<b>49.77</b>	<b>16.85</b>	<b>7.85</b>	<b>0.04</b>	<b>0.51</b>	<b>0.51</b>	<b>21,378.01</b>

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.94	3.82	29.78	0.04	7.67	1.46	3,982.82
Retirement community	9.44	12.27	95.61	0.13	24.63	4.70	12,789.57
Racquetball/health	5.41	6.04	48.29	0.06	11.42	2.18	5,922.22
Regnl shop. center	4.55	5.20	41.21	0.05	9.93	1.90	5,135.01
General office building	6.86	8.67	67.27	0.09	17.19	3.28	8,904.00
<b>TOTALS (lbs/day, unmitigated)</b>	<b>29.20</b>	<b>36.00</b>	<b>282.16</b>	<b>0.37</b>	<b>70.84</b>	<b>13.52</b>	<b>36,733.62</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	2.88	3.74	29.18	0.04	7.52	1.44	3,903.16
Retirement community	9.25	12.02	93.70	0.12	24.13	4.61	12,533.78
Racquetball/health	5.30	5.91	47.33	0.06	11.19	2.14	5,803.77
Regnl shop. center	4.45	5.10	40.39	0.05	9.73	1.86	5,032.31
General office building	6.72	8.50	65.93	0.09	16.84	3.22	8,725.92
<b>TOTALS (lbs/day, mitigated)</b>	<b>28.60</b>	<b>35.27</b>	<b>276.53</b>	<b>0.36</b>	<b>69.41</b>	<b>13.27</b>	<b>35,998.94</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	4.88	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	136.20	2.81	dwelling units	681.00	1,913.61	14,323.87
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	140.00	1,541.40	9,997.60
					6,756.57	41,200.50

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Racquetball/health				5.0	2.5	92.5
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5

Page: 1

4/21/2010 11:08:33 AM

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\Projects\Active\Placer County\Timberline at Auburn\Technical Reports\Air Quality\Timberline Urbemis\With Professional Office\Timberline - Phase IV Operational Emissions (with PO).urb924

Project Name: Timberline at Auburn - Medical Office Building

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 (tons/year, unmitigated)	9.57	2.00	4.39	0.00	0.01	0.01	2,494.61
TOTALS (tons/year, mitigated)	9.57	2.00	4.39	0.00	0.01	0.01	2,494.61
Percent Reduction	0.00	0.00	0.00	NaN	0.00	0.00	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)	5.36	5.22	48.00	0.08	12.92	2.48	7,370.31
TOTALS (tons/year, mitigated)	5.27	5.11	47.03	0.07	12.66	2.42	7,222.92
Percent Reduction	1.68	2.11	2.02	12.50	2.01	2.42	2.00

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)	14.93	7.22	52.39	0.08	12.93	2.49	9,864.92
TOTALS (tons/year, mitigated)	14.84	7.11	51.42	0.07	12.67	2.43	9,717.53
Percent Reduction	0.60	1.52	1.85	12.50	2.01	2.41	1.49

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.15	1.96	0.96	0.00	0.00	0.00	2,485.07
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.88
Landscape	0.55	0.04	3.43	0.00	0.01	0.01	5.66
Consumer Products	6.78						
Architectural Coatings	2.09						
TOTALS (tons/year, unmitigated)	9.57	2.00	4.39	0.00	0.01	0.01	2,494.61

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.15	1.96	0.96	0.00	0.00	0.00	2,485.07
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.88
Landscape	0.55	0.04	3.43	0.00	0.01	0.01	5.66
Consumer Products	6.78						
Architectural Coatings	2.09						
TOTALS (tons/year, mitigated)	9.57	2.00	4.39	0.00	0.01	0.01	2,494.61

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 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.53	0.55	5.15	0.01	1.40	0.27	799.02
Retirement community	2.02	1.77	16.53	0.03	4.49	0.86	2,565.79
Racquetball/health	0.88	0.88	7.97	0.01	2.08	0.40	1,188.23
Regnl shop. center	0.73	0.76	6.82	0.01	1.81	0.35	1,030.58
General office building	1.20	1.26	11.53	0.02	3.14	0.60	1,786.69
<b>TOTALS (tons/year, unmitigated)</b>	<b>5.36</b>	<b>5.22</b>	<b>48.00</b>	<b>0.08</b>	<b>12.92</b>	<b>2.48</b>	<b>7,370.31</b>

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.52	0.54	5.04	0.01	1.37	0.26	783.04
Retirement community	1.99	1.74	16.20	0.02	4.40	0.84	2,514.48
Racquetball/health	0.86	0.86	7.81	0.01	2.04	0.39	1,164.47
Regnl shop. center	0.72	0.74	6.68	0.01	1.78	0.34	1,009.97
General office building	1.18	1.23	11.30	0.02	3.07	0.59	1,750.96
<b>TOTALS (tons/year, mitigated)</b>	<b>5.27</b>	<b>5.11</b>	<b>47.03</b>	<b>0.07</b>	<b>12.66</b>	<b>2.42</b>	<b>7,222.92</b>

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 0.00 Nonresidential Trip % Reduction: 0.00

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	4.88	7.64	dwelling units	78.00	595.92	4,460.62
Retirement community	136.20	2.81	dwelling units	681.00	1,913.61	14,323.87
Racquetball/health		32.93	1000 sq ft	45.00	1,481.85	6,641.59
Regnl shop. center		42.94	1000 sq ft	28.50	1,223.79	5,776.82
General office building		11.01	1000 sq ft	140.00	1,541.40	9,997.60
					6,756.57	41,200.50

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	40.0	0.0	100.0	0.0
Light Truck < 3750 lbs	14.0	0.0	96.4	3.6
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	76.9	23.1
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.1	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	40.0	60.0	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
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)						
Racquetball/health				5.0	2.5	92.5
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5

## Timberline at Auburn GHG Analysis

**1. Potential GHG emissions:**

The following are the potential GHG emissions including URBEMIS modeling analysis, utility usage, solid waste, and water from the proposed project when it is built out:

	CO <sub>2</sub> emissions (tons/yr)
Area Source <sub>1</sub>	330.76
Vehicle Emissions <sub>1</sub>	8,334.30
Utility Usage <sub>2</sub>	619.32
Solid Waste <sub>3</sub>	858.70
Water <sub>4</sub>	5.61
<b>Total</b>	<b>10,148.69</b>
<sup>1</sup> Project's URBEMIS-2007 modeling results. Area sources include but are not limited to landscape equipment emissions, natural gas emissions, and architectural coatings. <sup>2</sup> Estimation based on California Climate Action Registry General Reporting Protocol, Version 3.1. and Energy Information Administration, Official Energy Statistics from the U.S. Government. Please see page 2. <sup>3</sup> Estimation based on CARB, Landfill Emissions Tool Version 1.1. Please see page 3. <sup>4</sup> Estimation based Greenhouse Gas Emissions from Potable Water Supply, Conveyance, Treatment, and Distribution Table. Please see page 4.	

### Additional Analysis for the GHG Emissions from Utility Usage (California Climate Action Registry General Reporting Protocol, Version 3.1)

**Utility Usage for the Proposed Project:**

**Residential Utility Usage**

Utility usage for a residential unit<sup>1</sup>:

Average electricity usage per month: 540 kW-hr  
 Average natural gas usage per month: 45 therms

PG&E CO<sub>2</sub> emission rates:

Electric: 0.524 lbs CO<sub>2</sub> per kW-hr  
 Natural Gas: 13.446 lbs CO<sub>2</sub> per therm

Calculation:

CO<sub>2</sub> emissions from electricity usage per year per house:  
 $540 * 0.524 * 12 = 3395.52$  lbs CO<sub>2</sub> = 1.7 tons CO<sub>2</sub> per year  
 CO<sub>2</sub> emissions from natural gas usage per year per house:

---

<sup>1</sup> PG&E carbon footprint calculation factsheet.

45 \* 13.446 \* 12 = 7260.84 lbs CO<sub>2</sub> = 3.63 tons CO<sub>2</sub> per year

Size of the proposed project:

860 residential units

Total CO<sub>2</sub> emissions from utility usage from residential:

(1.7 + 3.63) \* 860 = 4,583.8 tons CO<sub>2</sub> per year

**Commercial Retail/Office Utility Usage**

Electricity Usage

*Annual Electricity Intensity Based On Principal Building Activity<sup>2</sup>:*

- Retail (Other Than Mall): 14.3 kWh/sf
- Large Office: 16.77 kWh/sf

*Project Electricity Consumption:*

- Retail : (Annual Electricity Intensity Based on Principal Building Activity x Building's usable square footage x CO<sub>2</sub> emission rate) = 14.3 kWh/sf x 28,500 sf x 0.524 CO<sub>2</sub>/kWh = 106.78 tons CO<sub>2</sub>/year
- Large Office: (Annual Electricity Intensity Based on Principal Building Activity x Building's usable square footage x CO<sub>2</sub> emission rate) = 16.77 kWh/sf x 190,000 sf x 0.524 CO<sub>2</sub>/kWh = 834.81 tons CO<sub>2</sub>/year
- Total: 941.59 tons CO<sub>2</sub>/year

Commercial Retail/Office Natural Gas Usage

*Average Annual Natural Gas Consumption Per Consumer<sup>3</sup> (Thousand Cubic Ft.):*

- Commercial: 561 Thousand Cubic ft.
  - 100 cubic foot = 1 therm
- Commercial Retail/Office Building: 561 Thousand Cubic ft. = 5,610 therms

*Calculation:*

- Annual CO<sub>2</sub> emissions from natural gas usage:  
(5,610 x 13.446 x 10 commercial/office buildings) = 377.16 tons CO<sub>2</sub> per year

Total Commercial Retail/Office Usage (Electricity and Natural Gas):

1,318.75 tons CO<sub>2</sub> per year

---

<sup>2</sup> California Climate Action Registry General Reporting Protocol, Version 3.1, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_3.1\\_January2009.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_3.1_January2009.pdf), accessed September 23, 2009.

<sup>3</sup> Energy Information Administration, Official Energy Statistics from the U.S. Government, 2007 Number of Natural Gas Consumers, [http://tonto.eia.doe.gov/dnav/ng/ng\\_cons\\_num\\_dcu\\_SCA\\_a.htm](http://tonto.eia.doe.gov/dnav/ng/ng_cons_num_dcu_SCA_a.htm), accessed September 24, 2009.

**Total CO<sub>2</sub> Utility Emission for the Proposed Project:**

**5,902.55 tons per year**

**Additional Analysis for the GHG Emissions from Solid Waste  
(Landfill Emissions Tool Version 1.1)**

**Solid Waste for the Proposed Project:**

Estimated Solid Waste Generations Rates<sup>4</sup>:

- Commercial Retail: 0.0024 tons/sf/year
- Professional Office: 0.084 lbs/sf/day

Project Calculation:

- Commercial Retail: 0.0024 tons/sf/year x 28,500 sf = 68.4 tons/year
- Professional Office: 0.084 lbs/sf/day x 190,000 sf x 365 days/yr / 2,000 lbs/ton = 2,912.7 tons/year
- Total: 2,981.1 tons per year of solid waste

**CO<sub>2</sub> Emission Rates and Calculations for the Proposed Project:**

California Air Resources Board Implementation of IPCC's Mathematically Exact First-Order Decay Model W/ Proposed Project Solid Waste Consumption<sup>5</sup>

- CH<sub>4</sub> – 2,834 metric tonnes of CO<sub>2</sub> equivalent per year
- CO<sub>2</sub> – 453 metric tonnes of CO<sub>2</sub> equivalent per year

**Total CO<sub>2</sub> Emission for the Proposed Project:**

(2,834 + 453) = 3,287 metric tonnes CO<sub>2</sub> per year

3,287 metric tonnes CO<sub>2</sub> per year = 3,623 tons CO<sub>2</sub> per year

---

<sup>4</sup> All demand factors from [www.ciwmb.ca.gov](http://www.ciwmb.ca.gov), accessed on December 19, 2007

<sup>5</sup> CARB, Landfill Emissions Tool Version 1.1, <http://www.arb.ca.gov/cc/protocols/localgov/pubs/pubs.htm>, accessed October 28, 2009.

## Greenhouse Gas Emissions from Potable Water Supply, Conveyance, Treatment, and Distribution

Proposed Project: 487 Acre-Feet per Year = 158.7 Mgal/yr

Case	Activity	Potable Water Needs Estimate <sup>1</sup> (Mgal/yr)	Electrical Demand Factor <sup>2,3</sup> (kW-hr/Mgal)	Annual Electrical Demand (kW-hr/year)	CO <sub>2</sub> E Emission Factor <sup>4</sup> (lbs CO <sub>2</sub> E/kW-hr)	Annual CO <sub>2</sub> E Emissions (Tons CO <sub>2</sub> E/yr)
Proposed	Supply & Conveyance	158.7	2,117	335,967.9	0.88	147.83
	Treatment	158.7	111	17,615.7	0.88	7.75
	Distribution	158.7	1,272	201,866.4	0.88	88.82
	<b>Total</b>					<b>244.4</b>

Sources:

1. *Timberline Project, Water Supply Assessment and Verification, January 2009.*
2. California Energy Commission, *California's Water-Energy Relationship, Final Staff Report (CEC-700-2005-011-SF), (2005) 26.*
3. California Energy Commission, *Refining Estimates of Water-Related Energy Use in California, PIER Final Project Report (CEC-500-2006-118), (2006) 22.* Prepared by Navigant Consulting, Inc.
4. California Climate Action Registry, General Reporting Protocol: Reporting Entity-Wide Greenhouse Gas Emissions Version 3.0 (2008) 91-93.