

APPENDIX C

**WEST LOS ANGELES COLLEGE
2009 FACILITIES MASTER PLAN
SUPPLEMENTAL DRAFT EIR
AIR QUALITY MODELING**

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\TLC.urb924

Project Name: West Los Angeles College -- TLC

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	21.07	13.39	0.01	20.39	1.43	21.83	4.26	1.32	5.58	2,460.07
2010 TOTALS (lbs/day mitigated)	2.96	21.07	13.39	0.01	5.24	1.43	6.68	1.10	1.32	2.41	2,460.07
2011 TOTALS (lbs/day unmitigated)	12.27	17.93	12.80	0.01	0.03	0.87	0.90	0.01	0.80	0.81	2,459.95
2011 TOTALS (lbs/day mitigated)	12.27	15.39	12.80	0.01	0.03	0.46	0.49	0.01	0.42	0.43	2,459.95
2012 TOTALS (lbs/day unmitigated)	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
2012 TOTALS (lbs/day mitigated)	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

1/12/2010 8:34:23 PM

Time Slice 1/2/2012-3/5/2012 Active Days: 46	<u>12.27</u>	<u>0.01</u>	<u>0.13</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>17.80</u>
Coating 09/05/2011-03/05/2012	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Phase Assumptions

Phase: Mass Grading 7/1/2010 - 9/1/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.34

Maximum Daily Acreage Disturbed: 0.08

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 166 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/5/2011 - 3/5/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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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 7/1/2010-9/1/2010 Active Days: 45	<u>2.96</u>	<u>21.07</u>	12.62	0.00	<u>5.24</u>	<u>1.43</u>	<u>6.68</u>	<u>1.10</u>	<u>1.32</u>	<u>2.41</u>	1,904.46
Mass Grading 07/01/2010-09/01/2010	2.96	21.07	12.62	0.00	5.24	1.43	6.68	1.10	1.32	2.41	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	5.24	0.00	5.24	1.09	0.00	1.09	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/2/2010-12/31/2010 Active Days: 87	<u>2.35</u>	<u>16.54</u>	<u>13.39</u>	<u>0.01</u>	0.03	0.48	0.52	0.01	0.44	0.45	<u>2,460.07</u>
Building 09/02/2010-09/02/2011	2.35	16.54	13.39	0.01	0.03	0.48	0.52	0.01	0.44	0.45	2,460.07
Building Off Road Diesel	2.13	15.44	7.70	0.00	0.00	0.43	0.43	0.00	0.40	0.40	1,709.32
Building Vendor Trips	0.07	0.81	0.66	0.00	0.01	0.03	0.04	0.00	0.03	0.03	153.65
Building Worker Trips	0.16	0.30	5.03	0.01	0.03	0.02	0.04	0.01	0.01	0.02	597.09
Time Slice 1/3/2011-9/2/2011 Active Days: 175	<u>2.23</u>	<u>15.39</u>	<u>12.80</u>	<u>0.01</u>	<u>0.03</u>	<u>0.46</u>	<u>0.49</u>	<u>0.01</u>	<u>0.42</u>	<u>0.43</u>	<u>2,459.95</u>
Building 09/02/2010-09/02/2011	2.23	15.39	12.80	0.01	0.03	0.46	0.49	0.01	0.42	0.43	2,459.95
Building Off Road Diesel	2.02	14.39	7.50	0.00	0.00	0.41	0.41	0.00	0.38	0.38	1,709.32
Building Vendor Trips	0.07	0.73	0.61	0.00	0.01	0.03	0.04	0.00	0.03	0.03	153.66
Building Worker Trips	0.14	0.27	4.68	0.01	0.03	0.02	0.04	0.01	0.01	0.02	596.96

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Time Slice 9/5/2011-12/30/2011 Active Days: 85	<u>12.27</u>	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Coating 09/05/2011-03/05/2012	12.27	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	0.00	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Time Slice 1/2/2012-3/5/2012 Active Days: 46	<u>12.27</u>	<u>0.01</u>	<u>0.13</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>17.80</u>
Coating 09/05/2011-03/05/2012	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	0.00	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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

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

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

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

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

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

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

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

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

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2012	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
Coating 09/05/2011-03/05/2012	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
Architectural Coating	0.28	0.00	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	0.00	0.41

Phase Assumptions

Phase: Mass Grading 7/1/2010 - 9/1/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.34

Maximum Daily Acreage Disturbed: 0.08

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 166 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/5/2011 - 3/5/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

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2011	0.72	1.35	1.13	0.00	0.00	0.04	0.04	0.00	0.04	0.04	216.00
Building 09/02/2010-09/02/2011	0.19	1.35	1.12	0.00	0.00	0.04	0.04	0.00	0.04	0.04	215.25
Building Off Road Diesel	0.18	1.26	0.66	0.00	0.00	0.04	0.04	0.00	0.03	0.03	149.57
Building Vendor Trips	0.01	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45
Building Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.23
Coating 09/05/2011-03/05/2012	0.52	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
Architectural Coating	0.52	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	0.76
2012	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
Coating 09/05/2011-03/05/2012	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
Architectural Coating	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41

Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

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

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

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\TLC.urb924

Project Name: West Los Angeles College -- TLC

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	21.07	13.39	0.01	20.39	1.43	21.83	4.26	1.32	5.58	2,460.07
2010 TOTALS (lbs/day mitigated)	2.96	21.07	13.39	0.01	5.24	1.43	6.68	1.10	1.32	2.41	2,460.07
2011 TOTALS (lbs/day unmitigated)	12.27	17.93	12.80	0.01	0.03	0.87	0.90	0.01	0.80	0.81	2,459.95
2011 TOTALS (lbs/day mitigated)	12.27	15.39	12.80	0.01	0.03	0.46	0.49	0.01	0.42	0.43	2,459.95
2012 TOTALS (lbs/day unmitigated)	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
2012 TOTALS (lbs/day mitigated)	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

1/12/2010 8:34:40 PM

Time Slice 1/2/2012-3/5/2012 Active Days: 46	<u>12.27</u>	<u>0.01</u>	<u>0.13</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>17.80</u>
Coating 09/05/2011-03/05/2012	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Phase Assumptions

Phase: Mass Grading 7/1/2010 - 9/1/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.34

Maximum Daily Acreage Disturbed: 0.08

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 166 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/5/2011 - 3/5/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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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 7/1/2010-9/1/2010 Active Days: 45	<u>2.96</u>	<u>21.07</u>	12.62	0.00	<u>5.24</u>	<u>1.43</u>	<u>6.68</u>	<u>1.10</u>	<u>1.32</u>	<u>2.41</u>	1,904.46
Mass Grading 07/01/2010-09/01/2010	2.96	21.07	12.62	0.00	5.24	1.43	6.68	1.10	1.32	2.41	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	5.24	0.00	5.24	1.09	0.00	1.09	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/2/2010-12/31/2010 Active Days: 87	<u>2.35</u>	<u>16.54</u>	<u>13.39</u>	<u>0.01</u>	0.03	0.48	0.52	0.01	0.44	0.45	<u>2,460.07</u>
Building 09/02/2010-09/02/2011	2.35	16.54	13.39	0.01	0.03	0.48	0.52	0.01	0.44	0.45	2,460.07
Building Off Road Diesel	2.13	15.44	7.70	0.00	0.00	0.43	0.43	0.00	0.40	0.40	1,709.32
Building Vendor Trips	0.07	0.81	0.66	0.00	0.01	0.03	0.04	0.00	0.03	0.03	153.65
Building Worker Trips	0.16	0.30	5.03	0.01	0.03	0.02	0.04	0.01	0.01	0.02	597.09
Time Slice 1/3/2011-9/2/2011 Active Days: 175	<u>2.23</u>	<u>15.39</u>	<u>12.80</u>	<u>0.01</u>	<u>0.03</u>	<u>0.46</u>	<u>0.49</u>	<u>0.01</u>	<u>0.42</u>	<u>0.43</u>	<u>2,459.95</u>
Building 09/02/2010-09/02/2011	2.23	15.39	12.80	0.01	0.03	0.46	0.49	0.01	0.42	0.43	2,459.95
Building Off Road Diesel	2.02	14.39	7.50	0.00	0.00	0.41	0.41	0.00	0.38	0.38	1,709.32
Building Vendor Trips	0.07	0.73	0.61	0.00	0.01	0.03	0.04	0.00	0.03	0.03	153.66
Building Worker Trips	0.14	0.27	4.68	0.01	0.03	0.02	0.04	0.01	0.01	0.02	596.96

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Time Slice 9/5/2011-12/30/2011 Active Days: 85	<u>12.27</u>	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Coating 09/05/2011-03/05/2012	12.27	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	0.00	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Time Slice 1/2/2012-3/5/2012 Active Days: 46	<u>12.27</u>	<u>0.01</u>	<u>0.13</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>17.80</u>
Coating 09/05/2011-03/05/2012	12.27	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80
Architectural Coating	12.26	0.00	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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80

Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/2/2010 - 9/2/2011 - Default Building Construction Description

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

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

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

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

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

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

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

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

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2011	0.53	1.49	1.11	0.00	0.00	0.07	0.08	0.00	0.07	0.07	204.39
Building 10/18/2010-10/18/2011	0.19	1.49	1.11	0.00	0.00	0.07	0.08	0.00	0.07	0.07	203.91
Building Off Road Diesel	0.17	1.40	0.65	0.00	0.00	0.07	0.07	0.00	0.07	0.07	138.65
Building Vendor Trips	0.01	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.36
Building Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.90
Coating 10/19/2010-10/19/2012	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
Architectural Coating	0.33	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	0.49
2012	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Coating 10/19/2010-10/19/2012	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Architectural Coating	0.27	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	0.39

Phase Assumptions

Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 180362.1

Building Volume Daily (cubic feet): 17984.73

On Road Truck Travel (VMT): 416.31

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.57

Maximum Daily Acreage Disturbed: 0.14

Fugitive Dust Level of Detail: Low

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Onsite Cut/Fill: 550 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 10/19/2010 - 10/19/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2011	0.53	1.28	1.11	0.00	0.00	0.04	0.04	0.00	0.04	0.04	204.39
Building 10/18/2010-10/18/2011	0.19	1.28	1.11	0.00	0.00	0.04	0.04	0.00	0.04	0.04	203.91
Building Off Road Diesel	0.17	1.19	0.65	0.00	0.00	0.04	0.04	0.00	0.03	0.03	138.65
Building Vendor Trips	0.01	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.36
Building Worker Trips	0.01	0.02	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.90
Coating 10/19/2010-10/19/2012	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
Architectural Coating	0.33	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	0.49
2012	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Coating 10/19/2010-10/19/2012	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Architectural Coating	0.27	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	0.39

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

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PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\Watson Center.urb924

Project Name: West Los Angeles College -- Watson Center

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	4.52	21.07	12.62	0.02	66.31	1.43	67.74	13.85	1.32	15.17	2,589.20
2010 TOTALS (lbs/day mitigated)	4.52	21.07	12.62	0.02	17.51	1.43	18.94	3.66	1.32	4.98	2,589.20
2011 TOTALS (lbs/day unmitigated)	4.42	14.39	10.72	0.01	0.03	0.72	0.75	0.01	0.66	0.67	1,973.86
2011 TOTALS (lbs/day mitigated)	4.42	12.35	10.72	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,973.86
2012 TOTALS (lbs/day unmitigated)	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
2012 TOTALS (lbs/day mitigated)	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

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	<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 9/1/2010-9/15/2010 Active Days: 11	2.17	20.71	10.71	0.02	7.62	1.12	8.74	1.59	1.03	2.62	2,589.20
Demolition 09/01/2010-09/15/2010	2.17	20.71	10.71	0.02	7.62	1.12	8.74	1.59	1.03	2.62	2,589.20
Fugitive Dust	0.00	0.00	0.00	0.00	7.55	0.00	7.55	1.57	0.00	1.57	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	0.99	12.97	4.98	0.02	0.06	0.53	0.59	0.02	0.49	0.51	1,764.50
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/16/2010-10/15/2010 Active Days: 22	2.96	21.07	12.62	0.00	66.31	1.43	67.74	13.85	1.32	15.17	1,904.46
Mass Grading 09/16/2010-10/15/2010	2.96	21.07	12.62	0.00	66.31	1.43	67.74	13.85	1.32	15.17	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	66.30	0.00	66.30	13.85	0.00	13.85	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/18/2010-10/18/2010 Active Days: 1	1.94	15.45	11.12	0.01	0.03	0.77	0.80	0.01	0.71	0.72	1,970.22
Building 10/18/2010-10/18/2011	1.94	15.45	11.12	0.01	0.03	0.77	0.80	0.01	0.71	0.72	1,970.22
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.06	0.68	0.56	0.00	0.00	0.03	0.03	0.00	0.03	0.03	129.07
Building Worker Trips	0.13	0.25	4.23	0.01	0.02	0.01	0.04	0.01	0.01	0.02	501.56

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Time Slice 1/2/2012-10/19/2012	<u>2.58</u>	<u>0.00</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.74</u>
Active Days: 210											
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Phase Assumptions

Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description
 Building Volume Total (cubic feet): 180362.1
 Building Volume Daily (cubic feet): 17984.73
 On Road Truck Travel (VMT): 416.31
 Off-Road Equipment:
 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description
 Total Acres Disturbed: 0.57
 Maximum Daily Acreage Disturbed: 0.14
 Fugitive Dust Level of Detail: Low
 Onsite Cut/Fill: 550 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day
 On Road Truck Travel (VMT): 0
 Off-Road Equipment:
 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description
 Off-Road Equipment:
 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

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2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 10/19/2010 - 10/19/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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 9/1/2010-9/15/2010 Active Days: 11	2.17	19.56	10.71	0.02	7.62	0.83	8.45	1.59	0.76	2.35	2,589.20
Demolition 09/01/2010-09/15/2010	2.17	19.56	10.71	0.02	7.62	0.83	8.45	1.59	0.76	2.35	2,589.20
Fugitive Dust	0.00	0.00	0.00	0.00	7.55	0.00	7.55	1.57	0.00	1.57	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	0.99	12.97	4.98	0.02	0.06	0.53	0.59	0.02	0.49	0.51	1,764.50
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

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Time Slice 1/3/2011-10/18/2011 Active Days: 207	<u>4.42</u>	<u>12.35</u>	<u>10.72</u>	<u>0.01</u>	<u>0.03</u>	<u>0.38</u>	<u>0.41</u>	<u>0.01</u>	<u>0.35</u>	<u>0.36</u>	<u>1,973.86</u>
Building 10/18/2010-10/18/2011	1.85	12.35	10.70	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,970.12
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.05	0.61	0.52	0.00	0.00	0.03	0.03	0.00	0.02	0.02	129.07
Building Worker Trips	0.12	0.23	3.93	0.01	0.02	0.01	0.04	0.01	0.01	0.02	501.45
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Time Slice 10/19/2011-12/30/2011 Active Days: 53	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Time Slice 1/2/2012-10/19/2012 Active Days: 210	<u>2.58</u>	<u>0.00</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.74</u>
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:
 NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:
 NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:
 NOX: 15% PM10: 50% PM25: 50%

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The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\Watson Center.urb924

Project Name: West Los Angeles College -- Watson Center

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	4.52	21.07	12.62	0.02	66.31	1.43	67.74	13.85	1.32	15.17	2,589.20
2010 TOTALS (lbs/day mitigated)	4.52	21.07	12.62	0.02	17.51	1.43	18.94	3.66	1.32	4.98	2,589.20
2011 TOTALS (lbs/day unmitigated)	4.42	14.39	10.72	0.01	0.03	0.72	0.75	0.01	0.66	0.67	1,973.86
2011 TOTALS (lbs/day mitigated)	4.42	12.35	10.72	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,973.86
2012 TOTALS (lbs/day unmitigated)	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
2012 TOTALS (lbs/day mitigated)	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

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	<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 9/1/2010-9/15/2010 Active Days: 11	2.17	20.71	10.71	0.02	7.62	1.12	8.74	1.59	1.03	2.62	2,589.20
Demolition 09/01/2010-09/15/2010	2.17	20.71	10.71	0.02	7.62	1.12	8.74	1.59	1.03	2.62	2,589.20
Fugitive Dust	0.00	0.00	0.00	0.00	7.55	0.00	7.55	1.57	0.00	1.57	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	0.99	12.97	4.98	0.02	0.06	0.53	0.59	0.02	0.49	0.51	1,764.50
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/16/2010-10/15/2010 Active Days: 22	2.96	21.07	12.62	0.00	66.31	1.43	67.74	13.85	1.32	15.17	1,904.46
Mass Grading 09/16/2010-10/15/2010	2.96	21.07	12.62	0.00	66.31	1.43	67.74	13.85	1.32	15.17	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	66.30	0.00	66.30	13.85	0.00	13.85	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/18/2010-10/18/2010 Active Days: 1	1.94	15.45	11.12	0.01	0.03	0.77	0.80	0.01	0.71	0.72	1,970.22
Building 10/18/2010-10/18/2011	1.94	15.45	11.12	0.01	0.03	0.77	0.80	0.01	0.71	0.72	1,970.22
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.06	0.68	0.56	0.00	0.00	0.03	0.03	0.00	0.03	0.03	129.07
Building Worker Trips	0.13	0.25	4.23	0.01	0.02	0.01	0.04	0.01	0.01	0.02	501.56

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Time Slice 1/2/2012-10/19/2012	<u>2.58</u>	<u>0.00</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.74</u>
Active Days: 210											
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Phase Assumptions

- Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description
- Building Volume Total (cubic feet): 180362.1
- Building Volume Daily (cubic feet): 17984.73
- On Road Truck Travel (VMT): 416.31
- Off-Road Equipment:
- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

- Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description
- Total Acres Disturbed: 0.57
- Maximum Daily Acreage Disturbed: 0.14
- Fugitive Dust Level of Detail: Low
- Onsite Cut/Fill: 550 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day
- On Road Truck Travel (VMT): 0
- Off-Road Equipment:
- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

- Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description
- Off-Road Equipment:
- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

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2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 10/19/2010 - 10/19/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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 9/1/2010-9/15/2010 Active Days: 11	2.17	19.56	10.71	0.02	7.62	0.83	8.45	1.59	0.76	2.35	2,589.20
Demolition 09/01/2010-09/15/2010	2.17	19.56	10.71	0.02	7.62	0.83	8.45	1.59	0.76	2.35	2,589.20
Fugitive Dust	0.00	0.00	0.00	0.00	7.55	0.00	7.55	1.57	0.00	1.57	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	0.99	12.97	4.98	0.02	0.06	0.53	0.59	0.02	0.49	0.51	1,764.50
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

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Time Slice 1/3/2011-10/18/2011 Active Days: 207	<u>4.42</u>	<u>12.35</u>	<u>10.72</u>	<u>0.01</u>	<u>0.03</u>	<u>0.38</u>	<u>0.41</u>	<u>0.01</u>	<u>0.35</u>	<u>0.36</u>	<u>1,973.86</u>
Building 10/18/2010-10/18/2011	1.85	12.35	10.70	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,970.12
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.05	0.61	0.52	0.00	0.00	0.03	0.03	0.00	0.02	0.02	129.07
Building Worker Trips	0.12	0.23	3.93	0.01	0.02	0.01	0.04	0.01	0.01	0.02	501.45
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Time Slice 10/19/2011-12/30/2011 Active Days: 53	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Time Slice 1/2/2012-10/19/2012 Active Days: 210	<u>2.58</u>	<u>0.00</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.74</u>
Coating 10/19/2010-10/19/2012	2.58	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Architectural Coating	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

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The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/15/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Building Construction 10/18/2010 - 10/18/2011 - Default Building Construction Description

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

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

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

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

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

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

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2011	0.34	2.63	1.39	0.00	0.00	0.14	0.14	0.00	0.13	0.13	272.14
Building 10/19/2010-12/23/2011	0.34	2.63	1.39	0.00	0.00	0.14	0.14	0.00	0.13	0.13	272.14
Building Off Road Diesel	0.34	2.63	1.38	0.00	0.00	0.14	0.14	0.00	0.13	0.13	270.86
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
Building Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
Coating 12/26/2011-02/26/2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	0.00	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	0.00
2012	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Coating 12/26/2011-02/26/2012	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Architectural Coating	0.01	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	0.01

Phase Assumptions

Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 160103

Building Volume Daily (cubic feet): 16003.01

On Road Truck Travel (VMT): 370.44

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 1.72

Maximum Daily Acreage Disturbed: 0.43

Fugitive Dust Level of Detail: Low

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Onsite Cut/Fill: 1667 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

10 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 12/26/2011 - 2/26/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

ROG

NOx

CO

SO2

PM10 Dust

PM10 Exhaust

PM10

PM2.5 Dust

PM2.5 Exhaust

PM2.5

CO2

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2012	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Coating 12/26/2011-02/26/2012	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Architectural Coating	0.01	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	0.01

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\North Parking.urb924

Project Name: West Los Angeles College -- North Parking Lot

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	22.26	12.62	0.02	201.01	1.43	202.45	41.98	1.32	43.30	2,394.77
2010 TOTALS (lbs/day mitigated)	2.96	21.07	12.62	0.02	51.63	1.43	53.06	10.78	1.32	12.10	2,394.77
2011 TOTALS (lbs/day unmitigated)	2.64	20.64	10.91	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,134.40
2011 TOTALS (lbs/day mitigated)	2.64	17.55	10.91	0.00	0.00	0.55	0.55	0.00	0.51	0.51	2,134.40
2012 TOTALS (lbs/day unmitigated)	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
2012 TOTALS (lbs/day mitigated)	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

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Time Slice 1/3/2011-12/23/2011 Active Days: 255	<u>2.64</u>	<u>20.64</u>	<u>10.91</u>	<u>0.00</u>	<u>0.00</u>	<u>1.10</u>	<u>1.10</u>	<u>0.00</u>	<u>1.01</u>	<u>1.01</u>	<u>2,134.40</u>
Building 10/19/2010-12/23/2011	2.64	20.64	10.91	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,134.40
Building Off Road Diesel	2.64	20.63	10.84	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,124.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05
Building Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.96
Time Slice 12/26/2011-12/30/2011 Active Days: 5	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	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	0.69
Time Slice 1/2/2012-2/24/2012 Active Days: 40	<u>0.48</u>	<u>0.00</u>	<u>0.01</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.69</u>
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	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	0.69

Phase Assumptions

Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 160103

Building Volume Daily (cubic feet): 16003.01

On Road Truck Travel (VMT): 370.44

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

1/12/2010 8:32:03 PM

Total Acres Disturbed: 1.72

Maximum Daily Acreage Disturbed: 0.43

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1667 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

10 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 12/26/2011 - 2/26/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG

NOx

CO

SO2

PM10 Dust

PM10 Exhaust

PM10

PM2.5 Dust

PM2.5 Exhaust

PM2.5

CO2

1/12/2010 8:32:03 PM

Time Slice 12/26/2011-12/30/2011	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Active Days: 5												
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	0.00	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	0.00	0.69
Time Slice 1/2/2012-2/24/2012	<u>0.48</u>	<u>0.00</u>	<u>0.01</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.69</u>
Active Days: 40												
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	0.00	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	0.00	0.69

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

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

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

1/12/2010 8:32:03 PM

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\North Parking.urb924

Project Name: West Los Angeles College -- North Parking Lot

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	22.26	12.62	0.02	201.01	1.43	202.45	41.98	1.32	43.30	2,394.77
2010 TOTALS (lbs/day mitigated)	2.96	21.07	12.62	0.02	51.63	1.43	53.06	10.78	1.32	12.10	2,394.77
2011 TOTALS (lbs/day unmitigated)	2.64	20.64	10.91	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,134.40
2011 TOTALS (lbs/day mitigated)	2.64	17.55	10.91	0.00	0.00	0.55	0.55	0.00	0.51	0.51	2,134.40
2012 TOTALS (lbs/day unmitigated)	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
2012 TOTALS (lbs/day mitigated)	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

1/12/2010 8:32:26 PM

Time Slice 1/3/2011-12/23/2011 Active Days: 255	<u>2.64</u>	<u>20.64</u>	<u>10.91</u>	<u>0.00</u>	<u>0.00</u>	<u>1.10</u>	<u>1.10</u>	<u>0.00</u>	<u>1.01</u>	<u>1.01</u>	<u>2,134.40</u>
Building 10/19/2010-12/23/2011	2.64	20.64	10.91	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,134.40
Building Off Road Diesel	2.64	20.63	10.84	0.00	0.00	1.10	1.10	0.00	1.01	1.01	2,124.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05
Building Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.96
Time Slice 12/26/2011-12/30/2011 Active Days: 5	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	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	0.69
Time Slice 1/2/2012-2/24/2012 Active Days: 40	<u>0.48</u>	<u>0.00</u>	<u>0.01</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.69</u>
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	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	0.69

Phase Assumptions

- Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description
- Building Volume Total (cubic feet): 160103
- Building Volume Daily (cubic feet): 16003.01
- On Road Truck Travel (VMT): 370.44
- Off-Road Equipment:
- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

1/12/2010 8:32:26 PM

Total Acres Disturbed: 1.72

Maximum Daily Acreage Disturbed: 0.43

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1667 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

10 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 12/26/2011 - 2/26/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

ROG

NOx

CO

SO2

PM10 Dust

PM10 Exhaust

PM10

PM2.5 Dust

PM2.5 Exhaust

PM2.5

CO2

1/12/2010 8:32:26 PM

Time Slice 12/26/2011-12/30/2011	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Active Days: 5												
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	0.00	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	0.00	0.69
Time Slice 1/2/2012-2/24/2012	<u>0.48</u>	<u>0.00</u>	<u>0.01</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.69</u>
Active Days: 40												
Coating 12/26/2011-02/26/2012	0.48	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
Architectural Coating	0.48	0.00	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	0.00	0.69

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 9/1/2010 - 9/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 9/16/2010 - 10/18/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 10/19/2010 - 12/23/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\FMO.urb924

Project Name: West Los Angeles College -- FMO

Project Location: South Coast AQMD

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>
2010 TOTALS (tons/year unmitigated)	0.13	1.04	0.56	0.00	0.17	0.06	0.23	0.04	0.05	0.09	105.03
2010 TOTALS (tons/year mitigated)	0.13	0.92	0.56	0.00	0.05	0.04	0.09	0.01	0.03	0.05	105.03
Percent Reduction	0.00	11.00	0.00	0.00	68.82	34.49	60.19	68.67	34.51	48.31	0.00
2011 TOTALS (tons/year unmitigated)	0.31	0.97	0.53	0.00	0.00	0.05	0.05	0.00	0.05	0.05	107.42
2011 TOTALS (tons/year mitigated)	0.31	0.83	0.53	0.00	0.00	0.02	0.03	0.00	0.02	0.02	107.42
Percent Reduction	0.00	14.74	0.00	0.00	0.00	49.19	48.61	0.00	49.22	48.99	0.00

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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1/12/2010 8:30:05 PM

Phase Assumptions

Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 80062.98

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 185.19

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.22

Maximum Daily Acreage Disturbed: 0.06

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 111 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 7/19/2011 - 11/18/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

1/12/2010 8:30:05 PM

2011	0.31	0.83	0.53	0.00	0.00	0.02	0.03	0.00	0.02	0.02	107.42
Building 08/17/2010-07/18/2011	0.12	0.83	0.53	0.00	0.00	0.02	0.03	0.00	0.02	0.02	107.14
Building Off Road Diesel	0.12	0.81	0.44	0.00	0.00	0.02	0.02	0.00	0.02	0.02	94.44
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
Building Worker Trips	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.10
Coating 07/19/2011-11/18/2011	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
Architectural Coating	0.19	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	0.28

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

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

PM10: 69% PM25: 69%

The following mitigation measures apply to Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

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

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1/12/2010 8:30:05 PM

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\FMO.urb924

Project Name: West Los Angeles College -- FMO

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	21.07	12.62	0.01	13.70	1.43	15.14	2.86	1.32	4.18	1,904.46
2010 TOTALS (lbs/day mitigated)	2.96	21.07	12.62	0.01	3.39	1.43	4.51	0.71	1.32	1.96	1,904.46
2011 TOTALS (lbs/day unmitigated)	4.33	13.79	7.52	0.00	0.01	0.70	0.70	0.00	0.64	0.64	1,519.74
2011 TOTALS (lbs/day mitigated)	4.33	11.75	7.52	0.00	0.01	0.35	0.36	0.00	0.32	0.33	1,519.74

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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1/12/2010 8:29:34 PM

Time Slice 7/1/2010-7/15/2010	1.62	13.51	7.95	<u>0.01</u>	3.39	0.83	4.22	0.71	0.76	1.47	1,609.58
Active Days: 11											
Demolition 07/01/2010-07/15/2010	1.62	13.51	7.95	0.01	3.39	0.83	4.22	0.71	0.76	1.47	1,609.58
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	0.44	5.77	2.21	0.01	0.03	0.24	0.26	0.01	0.22	0.23	784.89
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 7/16/2010-8/16/2010	<u>2.96</u>	<u>21.07</u>	<u>12.62</u>	0.00	<u>13.70</u>	<u>1.43</u>	<u>15.14</u>	<u>2.86</u>	<u>1.32</u>	<u>4.18</u>	<u>1,904.46</u>
Active Days: 22											
Mass Grading 07/16/2010-08/16/2010	2.96	21.07	12.62	0.00	13.70	1.43	15.14	2.86	1.32	4.18	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	13.70	0.00	13.70	2.86	0.00	2.86	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/17/2010-12/31/2010	1.80	14.79	7.71	0.00	0.01	0.74	0.75	0.00	0.68	0.68	1,519.77
Active Days: 99											
Building 08/17/2010-07/18/2011	1.80	14.79	7.71	0.00	0.01	0.74	0.75	0.00	0.68	0.68	1,519.77
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.02	0.19	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.04	0.07	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.30
Time Slice 1/3/2011-7/18/2011	1.72	<u>13.79</u>	<u>7.52</u>	<u>0.00</u>	<u>0.01</u>	<u>0.70</u>	<u>0.70</u>	<u>0.00</u>	<u>0.64</u>	<u>0.64</u>	<u>1,519.74</u>
Active Days: 141											
Building 08/17/2010-07/18/2011	1.72	13.79	7.52	0.00	0.01	0.70	0.70	0.00	0.64	0.64	1,519.74
Building Off Road Diesel	1.67	13.55	6.25	0.00	0.00	0.68	0.68	0.00	0.63	0.63	1,339.59
Building Vendor Trips	0.02	0.17	0.15	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.03	0.07	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.27

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Time Slice 7/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Active Days: 89											
Coating 07/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Architectural Coating	4.33	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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29

Phase Assumptions

Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 80062.98

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 185.19

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.22

Maximum Daily Acreage Disturbed: 0.06

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 111 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

Off-Road Equipment:

- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

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2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 7/19/2011 - 11/18/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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 7/1/2010-7/15/2010 Active Days: 11	1.62	12.36	7.95	0.01	3.39	0.53	3.92	0.71	0.49	1.20	1,609.58
Demolition 07/01/2010-07/15/2010	1.62	12.36	7.95	0.01	3.39	0.53	3.92	0.71	0.49	1.20	1,609.58
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	0.44	5.77	2.21	0.01	0.03	0.24	0.26	0.01	0.22	0.23	784.89
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

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Time Slice 7/16/2010-8/16/2010 Active Days: 22	<u>2.96</u>	<u>21.07</u>	<u>12.62</u>	0.00	3.08	<u>1.43</u>	<u>4.51</u>	0.64	<u>1.32</u>	<u>1.96</u>	<u>1,904.46</u>
Mass Grading 07/16/2010-08/16/2010	2.96	21.07	12.62	0.00	3.08	1.43	4.51	0.64	1.32	1.96	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	3.08	0.00	3.08	0.64	0.00	0.64	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/17/2010-12/31/2010 Active Days: 99	1.80	12.61	7.71	0.00	0.01	0.38	0.38	0.00	0.35	0.35	1,519.77
Building 08/17/2010-07/18/2011	1.80	12.61	7.71	0.00	0.01	0.38	0.38	0.00	0.35	0.35	1,519.77
Building Off Road Diesel	1.75	12.34	6.34	0.00	0.00	0.36	0.36	0.00	0.34	0.34	1,339.59
Building Vendor Trips	0.02	0.19	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.04	0.07	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.30
Time Slice 1/3/2011-7/18/2011 Active Days: 141	1.72	<u>11.75</u>	<u>7.52</u>	<u>0.00</u>	<u>0.01</u>	<u>0.35</u>	<u>0.36</u>	<u>0.00</u>	<u>0.32</u>	<u>0.33</u>	<u>1,519.74</u>
Building 08/17/2010-07/18/2011	1.72	11.75	7.52	0.00	0.01	0.35	0.36	0.00	0.32	0.33	1,519.74
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.02	0.17	0.15	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.03	0.07	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.27
Time Slice 7/19/2011-11/18/2011 Active Days: 89	<u>4.33</u>	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Coating 07/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Architectural Coating	4.33	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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

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For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

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

PM10: 69% PM25: 69%

The following mitigation measures apply to Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\FMO.urb924

Project Name: West Los Angeles College -- FMO

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.96	21.07	12.62	0.01	13.70	1.43	15.14	2.86	1.32	4.18	1,904.46
2010 TOTALS (lbs/day mitigated)	2.96	21.07	12.62	0.01	3.39	1.43	4.51	0.71	1.32	1.96	1,904.46
2011 TOTALS (lbs/day unmitigated)	4.33	13.79	7.52	0.00	0.01	0.70	0.70	0.00	0.64	0.64	1,519.74
2011 TOTALS (lbs/day mitigated)	4.33	11.75	7.52	0.00	0.01	0.35	0.36	0.00	0.32	0.33	1,519.74

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 7/1/2010-7/15/2010 Active Days: 11	1.62	13.51	7.95	<u>0.01</u>	3.39	0.83	4.22	0.71	0.76	1.47	1,609.58
Demolition 07/01/2010-07/15/2010	1.62	13.51	7.95	0.01	3.39	0.83	4.22	0.71	0.76	1.47	1,609.58
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	0.44	5.77	2.21	0.01	0.03	0.24	0.26	0.01	0.22	0.23	784.89
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 7/16/2010-8/16/2010 Active Days: 22	<u>2.96</u>	<u>21.07</u>	<u>12.62</u>	0.00	<u>13.70</u>	<u>1.43</u>	<u>15.14</u>	<u>2.86</u>	<u>1.32</u>	<u>4.18</u>	<u>1,904.46</u>
Mass Grading 07/16/2010-08/16/2010	2.96	21.07	12.62	0.00	13.70	1.43	15.14	2.86	1.32	4.18	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	13.70	0.00	13.70	2.86	0.00	2.86	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/17/2010-12/31/2010 Active Days: 99	1.80	14.79	7.71	0.00	0.01	0.74	0.75	0.00	0.68	0.68	1,519.77
Building 08/17/2010-07/18/2011	1.80	14.79	7.71	0.00	0.01	0.74	0.75	0.00	0.68	0.68	1,519.77
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.02	0.19	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.04	0.07	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.30
Time Slice 1/3/2011-7/18/2011 Active Days: 141	1.72	<u>13.79</u>	<u>7.52</u>	<u>0.00</u>	<u>0.01</u>	<u>0.70</u>	<u>0.70</u>	<u>0.00</u>	<u>0.64</u>	<u>0.64</u>	<u>1,519.74</u>
Building 08/17/2010-07/18/2011	1.72	13.79	7.52	0.00	0.01	0.70	0.70	0.00	0.64	0.64	1,519.74
Building Off Road Diesel	1.67	13.55	6.25	0.00	0.00	0.68	0.68	0.00	0.63	0.63	1,339.59
Building Vendor Trips	0.02	0.17	0.15	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.03	0.07	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.27

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Time Slice 7/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Active Days: 89											
Coating 07/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Architectural Coating	4.33	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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29

Phase Assumptions

Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

Building Volume Total (cubic feet): 80062.98

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 185.19

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.22

Maximum Daily Acreage Disturbed: 0.06

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 111 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

Off-Road Equipment:

- 2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

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2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 7/19/2011 - 11/18/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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 7/1/2010-7/15/2010 Active Days: 11	1.62	12.36	7.95	0.01	3.39	0.53	3.92	0.71	0.49	1.20	1,609.58
Demolition 07/01/2010-07/15/2010	1.62	12.36	7.95	0.01	3.39	0.53	3.92	0.71	0.49	1.20	1,609.58
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	0.44	5.77	2.21	0.01	0.03	0.24	0.26	0.01	0.22	0.23	784.89
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

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Time Slice 7/16/2010-8/16/2010 Active Days: 22	<u>2.96</u>	<u>21.07</u>	<u>12.62</u>	0.00	3.08	<u>1.43</u>	<u>4.51</u>	0.64	<u>1.32</u>	<u>1.96</u>	<u>1,904.46</u>
Mass Grading 07/16/2010-08/16/2010	2.96	21.07	12.62	0.00	3.08	1.43	4.51	0.64	1.32	1.96	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	3.08	0.00	3.08	0.64	0.00	0.64	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/17/2010-12/31/2010 Active Days: 99	1.80	12.61	7.71	0.00	0.01	0.38	0.38	0.00	0.35	0.35	1,519.77
Building 08/17/2010-07/18/2011	1.80	12.61	7.71	0.00	0.01	0.38	0.38	0.00	0.35	0.35	1,519.77
Building Off Road Diesel	1.75	12.34	6.34	0.00	0.00	0.36	0.36	0.00	0.34	0.34	1,339.59
Building Vendor Trips	0.02	0.19	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.04	0.07	1.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.30
Time Slice 1/3/2011-7/18/2011 Active Days: 141	1.72	<u>11.75</u>	<u>7.52</u>	<u>0.00</u>	<u>0.01</u>	<u>0.35</u>	<u>0.36</u>	<u>0.00</u>	<u>0.32</u>	<u>0.33</u>	<u>1,519.74</u>
Building 08/17/2010-07/18/2011	1.72	11.75	7.52	0.00	0.01	0.35	0.36	0.00	0.32	0.33	1,519.74
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.02	0.17	0.15	0.00	0.00	0.01	0.01	0.00	0.01	0.01	36.88
Building Worker Trips	0.03	0.07	1.12	0.00	0.01	0.00	0.01	0.00	0.00	0.01	143.27
Time Slice 7/19/2011-11/18/2011 Active Days: 89	<u>4.33</u>	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Coating 07/19/2011-11/18/2011	4.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29
Architectural Coating	4.33	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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.29

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 7/15/2010 - Default Demolition Description

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For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 7/16/2010 - 8/16/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

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

PM10: 69% PM25: 69%

The following mitigation measures apply to Phase: Building Construction 8/17/2010 - 7/18/2011 - Default Building Construction Description

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

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

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

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

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

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

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2011	0.71	1.35	1.38	0.00	0.01	0.07	0.07	0.00	0.06	0.06	235.36
Building 09/03/2010-09/06/2011	0.18	1.35	1.37	0.00	0.01	0.07	0.07	0.00	0.06	0.06	234.59
Building Off Road Diesel	0.15	1.20	0.55	0.00	0.00	0.06	0.06	0.00	0.06	0.06	118.55
Building Vendor Trips	0.01	0.11	0.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	23.75
Building Worker Trips	0.02	0.04	0.72	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.28
Coating 09/07/2011-07/09/2012	0.53	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
Architectural Coating	0.53	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	0.77
2012	0.87	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
Coating 09/07/2011-07/09/2012	0.87	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
Architectural Coating	0.87	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	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26

Phase Assumptions

Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description

Building Volume Total (cubic feet): 649461.9

Building Volume Daily (cubic feet): 32461.76

On Road Truck Travel (VMT): 751.43

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 1.03

Maximum Daily Acreage Disturbed: 0.26

Fugitive Dust Level of Detail: Low

1/12/2010 8:28:56 PM

Onsite Cut/Fill: 1000 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/7/2011 - 7/9/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2012	0.87	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
Coating 09/07/2011-07/09/2012	0.87	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
Architectural Coating	0.87	0.00	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	0.00	1.26

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\Allied Health.urb924

Project Name: West Los Angeles College -- Allied Health

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.97	31.15	16.29	0.03	120.61	1.55	122.04	25.19	1.42	26.51	4,009.55
2010 TOTALS (lbs/day mitigated)	2.97	30.00	16.29	0.03	30.98	1.43	32.41	6.47	1.32	7.79	4,009.55
2011 TOTALS (lbs/day unmitigated)	12.82	15.29	15.50	0.01	0.06	0.77	0.82	0.02	0.70	0.72	2,650.68
2011 TOTALS (lbs/day mitigated)	12.82	13.26	15.50	0.01	0.06	0.42	0.48	0.02	0.39	0.41	2,650.68
2012 TOTALS (lbs/day unmitigated)	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
2012 TOTALS (lbs/day mitigated)	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

1/12/2010 8:28:24 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 7/1/2010-7/30/2010 Active Days: 22	<u>2.97</u>	<u>31.15</u>	14.72	<u>0.03</u>	13.75	<u>1.55</u>	15.29	2.87	<u>1.42</u>	4.30	<u>4,009.55</u>
Demolition 07/01/2010-08/01/2010	2.97	31.15	14.72	0.03	13.75	1.55	15.29	2.87	1.42	4.30	4,009.55
Fugitive Dust	0.00	0.00	0.00	0.00	13.63	0.00	13.63	2.84	0.00	2.84	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	1.80	23.40	8.99	0.03	0.11	0.96	1.06	0.03	0.88	0.92	3,184.86
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/2/2010-9/2/2010 Active Days: 24	2.96	21.07	12.62	0.00	<u>120.61</u>	1.43	<u>122.04</u>	<u>25.19</u>	1.32	<u>26.51</u>	1,904.46
Mass Grading 08/02/2010-09/02/2010	2.96	21.07	12.62	0.00	120.61	1.43	122.04	25.19	1.32	26.51	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	120.60	0.00	120.60	25.19	0.00	25.19	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/3/2010-12/31/2010 Active Days: 86	2.15	16.45	<u>16.29</u>	0.01	0.06	0.82	0.88	0.02	0.75	0.77	2,650.90
Building 09/03/2010-09/06/2011	2.15	16.45	16.29	0.01	0.06	0.82	0.88	0.02	0.75	0.77	2,650.90
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.12	1.41	1.16	0.00	0.01	0.06	0.07	0.00	0.05	0.06	268.38
Building Worker Trips	0.28	0.52	8.79	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.93

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Time Slice 1/3/2011-9/6/2011 Active Days: 177	2.04	<u>15.29</u>	<u>15.50</u>	<u>0.01</u>	<u>0.06</u>	<u>0.77</u>	<u>0.82</u>	<u>0.02</u>	<u>0.70</u>	<u>0.72</u>	<u>2,650.68</u>
Building 09/03/2010-09/06/2011	2.04	15.29	15.50	0.01	0.06	0.77	0.82	0.02	0.70	0.72	2,650.68
Building Off Road Diesel	1.67	13.55	6.25	0.00	0.00	0.68	0.68	0.00	0.63	0.63	1,339.59
Building Vendor Trips	0.11	1.27	1.07	0.00	0.01	0.05	0.06	0.00	0.05	0.05	268.39
Building Worker Trips	0.25	0.47	8.18	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.70
Time Slice 9/7/2011-12/30/2011 Active Days: 83	<u>12.82</u>	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Coating 09/07/2011-07/09/2012	12.82	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Time Slice 1/2/2012-7/9/2012 Active Days: 136	<u>12.82</u>	<u>0.01</u>	<u>0.14</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>18.60</u>
Coating 09/07/2011-07/09/2012	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Phase Assumptions

Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description
 Building Volume Total (cubic feet): 649461.9
 Building Volume Daily (cubic feet): 32461.76
 On Road Truck Travel (VMT): 751.43
 Off-Road Equipment:
 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

 Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

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Total Acres Disturbed: 1.03

Maximum Daily Acreage Disturbed: 0.26

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1000 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/7/2011 - 7/9/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG

NOx

CO

SO2

PM10 Dust

PM10 Exhaust

PM10

PM2.5 Dust

PM2.5 Exhaust

PM2.5

CO2

1/12/2010 8:28:24 PM

Time Slice 7/1/2010-7/30/2010 Active Days: 22	<u>2.97</u>	<u>30.00</u>	14.72	<u>0.03</u>	13.75	1.25	15.00	2.87	1.15	4.03	<u>4,009.55</u>
Demolition 07/01/2010-08/01/2010	2.97	30.00	14.72	0.03	13.75	1.25	15.00	2.87	1.15	4.03	4,009.55
Fugitive Dust	0.00	0.00	0.00	0.00	13.63	0.00	13.63	2.84	0.00	2.84	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	1.80	23.40	8.99	0.03	0.11	0.96	1.06	0.03	0.88	0.92	3,184.86
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/2/2010-9/2/2010 Active Days: 24	2.96	21.07	12.62	0.00	<u>30.98</u>	<u>1.43</u>	<u>32.41</u>	<u>6.47</u>	<u>1.32</u>	<u>7.79</u>	1,904.46
Mass Grading 08/02/2010-09/02/2010	2.96	21.07	12.62	0.00	30.98	1.43	32.41	6.47	1.32	7.79	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	30.97	0.00	30.97	6.47	0.00	6.47	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/3/2010-12/31/2010 Active Days: 86	2.15	14.27	<u>16.29</u>	0.01	0.06	0.45	0.51	0.02	0.41	0.43	2,650.90
Building 09/03/2010-09/06/2011	2.15	14.27	16.29	0.01	0.06	0.45	0.51	0.02	0.41	0.43	2,650.90
Building Off Road Diesel	1.75	12.34	6.34	0.00	0.00	0.36	0.36	0.00	0.34	0.34	1,339.59
Building Vendor Trips	0.12	1.41	1.16	0.00	0.01	0.06	0.07	0.00	0.05	0.06	268.38
Building Worker Trips	0.28	0.52	8.79	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.93
Time Slice 1/3/2011-9/6/2011 Active Days: 177	2.04	<u>13.26</u>	<u>15.50</u>	<u>0.01</u>	<u>0.06</u>	<u>0.42</u>	<u>0.48</u>	<u>0.02</u>	<u>0.39</u>	<u>0.41</u>	<u>2,650.68</u>
Building 09/03/2010-09/06/2011	2.04	13.26	15.50	0.01	0.06	0.42	0.48	0.02	0.39	0.41	2,650.68
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.11	1.27	1.07	0.00	0.01	0.05	0.06	0.00	0.05	0.05	268.39
Building Worker Trips	0.25	0.47	8.18	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.70

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Time Slice 9/7/2011-12/30/2011 Active Days: 83	<u>12.82</u>	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Coating 09/07/2011-07/09/2012	12.82	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Time Slice 1/2/2012-7/9/2012 Active Days: 136	<u>12.82</u>	<u>0.01</u>	<u>0.14</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>18.60</u>
Coating 09/07/2011-07/09/2012	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\WLAC\Allied Health.urb924

Project Name: West Los Angeles College -- Allied Health

Project Location: South Coast AQMD

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>
2010 TOTALS (lbs/day unmitigated)	2.97	31.15	16.29	0.03	120.61	1.55	122.04	25.19	1.42	26.51	4,009.55
2010 TOTALS (lbs/day mitigated)	2.97	30.00	16.29	0.03	30.98	1.43	32.41	6.47	1.32	7.79	4,009.55
2011 TOTALS (lbs/day unmitigated)	12.82	15.29	15.50	0.01	0.06	0.77	0.82	0.02	0.70	0.72	2,650.68
2011 TOTALS (lbs/day mitigated)	12.82	13.26	15.50	0.01	0.06	0.42	0.48	0.02	0.39	0.41	2,650.68
2012 TOTALS (lbs/day unmitigated)	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
2012 TOTALS (lbs/day mitigated)	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

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	<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 7/1/2010-7/30/2010 Active Days: 22	<u>2.97</u>	<u>31.15</u>	14.72	<u>0.03</u>	13.75	<u>1.55</u>	15.29	2.87	<u>1.42</u>	4.30	<u>4,009.55</u>
Demolition 07/01/2010-08/01/2010	2.97	31.15	14.72	0.03	13.75	1.55	15.29	2.87	1.42	4.30	4,009.55
Fugitive Dust	0.00	0.00	0.00	0.00	13.63	0.00	13.63	2.84	0.00	2.84	0.00
Demo Off Road Diesel	1.14	7.68	4.68	0.00	0.00	0.59	0.59	0.00	0.54	0.54	700.30
Demo On Road Diesel	1.80	23.40	8.99	0.03	0.11	0.96	1.06	0.03	0.88	0.92	3,184.86
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/2/2010-9/2/2010 Active Days: 24	2.96	21.07	12.62	0.00	<u>120.61</u>	1.43	<u>122.04</u>	<u>25.19</u>	1.32	<u>26.51</u>	1,904.46
Mass Grading 08/02/2010-09/02/2010	2.96	21.07	12.62	0.00	120.61	1.43	122.04	25.19	1.32	26.51	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	120.60	0.00	120.60	25.19	0.00	25.19	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/3/2010-12/31/2010 Active Days: 86	2.15	16.45	<u>16.29</u>	0.01	0.06	0.82	0.88	0.02	0.75	0.77	2,650.90
Building 09/03/2010-09/06/2011	2.15	16.45	16.29	0.01	0.06	0.82	0.88	0.02	0.75	0.77	2,650.90
Building Off Road Diesel	1.75	14.52	6.34	0.00	0.00	0.73	0.73	0.00	0.67	0.67	1,339.59
Building Vendor Trips	0.12	1.41	1.16	0.00	0.01	0.06	0.07	0.00	0.05	0.06	268.38
Building Worker Trips	0.28	0.52	8.79	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.93

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Time Slice 1/3/2011-9/6/2011 Active Days: 177	2.04	<u>15.29</u>	<u>15.50</u>	<u>0.01</u>	<u>0.06</u>	<u>0.77</u>	<u>0.82</u>	<u>0.02</u>	<u>0.70</u>	<u>0.72</u>	<u>2,650.68</u>
Building 09/03/2010-09/06/2011	2.04	15.29	15.50	0.01	0.06	0.77	0.82	0.02	0.70	0.72	2,650.68
Building Off Road Diesel	1.67	13.55	6.25	0.00	0.00	0.68	0.68	0.00	0.63	0.63	1,339.59
Building Vendor Trips	0.11	1.27	1.07	0.00	0.01	0.05	0.06	0.00	0.05	0.05	268.39
Building Worker Trips	0.25	0.47	8.18	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.70
Time Slice 9/7/2011-12/30/2011 Active Days: 83	<u>12.82</u>	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Coating 09/07/2011-07/09/2012	12.82	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Time Slice 1/2/2012-7/9/2012 Active Days: 136	<u>12.82</u>	<u>0.01</u>	<u>0.14</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>18.60</u>
Coating 09/07/2011-07/09/2012	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Phase Assumptions

Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description
 Building Volume Total (cubic feet): 649461.9
 Building Volume Daily (cubic feet): 32461.76
 On Road Truck Travel (VMT): 751.43
 Off-Road Equipment:
 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

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Total Acres Disturbed: 1.03

Maximum Daily Acreage Disturbed: 0.26

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1000 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

Off-Road Equipment:

2 Crawler Tractors (147 hp) operating at a 0.64 load factor for 4 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

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

Phase: Architectural Coating 9/7/2011 - 7/9/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

ROG

NOx

CO

SO2

PM10 Dust

PM10
Exhaust

PM10

PM2.5 Dust

PM2.5
Exhaust

PM2.5

CO2

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Time Slice 7/1/2010-7/30/2010 Active Days: 22	<u>2.97</u>	<u>30.00</u>	14.72	<u>0.03</u>	13.75	1.25	15.00	2.87	1.15	4.03	<u>4,009.55</u>
Demolition 07/01/2010-08/01/2010	2.97	30.00	14.72	0.03	13.75	1.25	15.00	2.87	1.15	4.03	4,009.55
Fugitive Dust	0.00	0.00	0.00	0.00	13.63	0.00	13.63	2.84	0.00	2.84	0.00
Demo Off Road Diesel	1.14	6.53	4.68	0.00	0.00	0.29	0.29	0.00	0.27	0.27	700.30
Demo On Road Diesel	1.80	23.40	8.99	0.03	0.11	0.96	1.06	0.03	0.88	0.92	3,184.86
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 8/2/2010-9/2/2010 Active Days: 24	2.96	21.07	12.62	0.00	<u>30.98</u>	<u>1.43</u>	<u>32.41</u>	<u>6.47</u>	<u>1.32</u>	<u>7.79</u>	1,904.46
Mass Grading 08/02/2010-09/02/2010	2.96	21.07	12.62	0.00	30.98	1.43	32.41	6.47	1.32	7.79	1,904.46
Mass Grading Dust	0.00	0.00	0.00	0.00	30.97	0.00	30.97	6.47	0.00	6.47	0.00
Mass Grading Off Road Diesel	2.93	21.00	11.57	0.00	0.00	1.43	1.43	0.00	1.32	1.32	1,780.06
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	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/3/2010-12/31/2010 Active Days: 86	2.15	14.27	<u>16.29</u>	0.01	0.06	0.45	0.51	0.02	0.41	0.43	2,650.90
Building 09/03/2010-09/06/2011	2.15	14.27	16.29	0.01	0.06	0.45	0.51	0.02	0.41	0.43	2,650.90
Building Off Road Diesel	1.75	12.34	6.34	0.00	0.00	0.36	0.36	0.00	0.34	0.34	1,339.59
Building Vendor Trips	0.12	1.41	1.16	0.00	0.01	0.06	0.07	0.00	0.05	0.06	268.38
Building Worker Trips	0.28	0.52	8.79	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.93
Time Slice 1/3/2011-9/6/2011 Active Days: 177	2.04	<u>13.26</u>	<u>15.50</u>	<u>0.01</u>	<u>0.06</u>	<u>0.42</u>	<u>0.48</u>	<u>0.02</u>	<u>0.39</u>	<u>0.41</u>	<u>2,650.68</u>
Building 09/03/2010-09/06/2011	2.04	13.26	15.50	0.01	0.06	0.42	0.48	0.02	0.39	0.41	2,650.68
Building Off Road Diesel	1.67	11.51	6.25	0.00	0.00	0.34	0.34	0.00	0.31	0.31	1,339.59
Building Vendor Trips	0.11	1.27	1.07	0.00	0.01	0.05	0.06	0.00	0.05	0.05	268.39
Building Worker Trips	0.25	0.47	8.18	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,042.70

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Time Slice 9/7/2011-12/30/2011 Active Days: 83	<u>12.82</u>	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Coating 09/07/2011-07/09/2012	12.82	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	0.00	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Time Slice 1/2/2012-7/9/2012 Active Days: 136	<u>12.82</u>	<u>0.01</u>	<u>0.14</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>18.60</u>
Coating 09/07/2011-07/09/2012	12.82	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Architectural Coating	12.81	0.00	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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 7/1/2010 - 8/1/2010 - Default Demolition Description

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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

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

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

The following mitigation measures apply to Phase: Mass Grading 8/2/2010 - 9/2/2010 - Default Mass Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Building Construction 9/3/2010 - 9/6/2011 - Default Building Construction Description

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

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

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

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

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

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