



**Appendix D**  
Air Quality Analysis Worksheets

# Pasadena Conference Center Expansion

## Regional Emission Calculations (lbs/day)

	<b>CO</b>	<b>NOx</b>	<b>PM10</b>	<b>ROC</b>	<b>SOx</b>
<b>Project</b>					
Stationary	1.26	7.34	0.19	0.13	0.57
SCAQMD Significance Threshold	550	55	150	55	150
<b>Difference</b>	<b>(549)</b>	<b>(48)</b>	<b>(150)</b>	<b>(55)</b>	<b>(149)</b>
<b>Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

**Electricity Usage**

<u>Land Use</u>	<u>1,000 Sqft</u>	<u>Electricity Usage Rate <sup>a</sup></u> <u>(kWh/sq.ft/yr)</u>	<u>Total Electricity Usage</u>		<u>CO</u>	<u>Emission Factors (lbs/MWh) <sup>b</sup></u>			
			<u>(kWh/year)</u>	<u>(MWh/Day)</u>		<u>ROC</u>	<u>NOx</u>	<u>PM10</u>	<u>SOx</u>
<b>Project</b>					<u>0.2</u>	<u>0.01</u>	<u>1.15</u>	<u>0.04</u>	<u>0.12</u>
Miscellaneous	164.3	10.5	1,725,360	4,727	0.945	0.047	5.436	0.189	0.567

**Natural Gas Usage**

<u>Land Use</u>	<u>1,000 Sqft</u>	<u>Natural Gas Usage Rate <sup>c</sup></u> <u>(cu.ft/sq.ft/mo)</u>	<u>Total Natural Gas Usage</u>		<u>CO</u>	<u>Emission Factors (lbs/MCuf) <sup>d</sup></u>			
			<u>(cu.ft/mo)</u>	<u>(cu.ft/DAY)</u>		<u>ROC</u>	<u>NOx</u>	<u>PM10</u>	<u>SOx</u>
<b>Project</b>					<u>20</u>	<u>5.3</u>	<u>120/80 <sup>e</sup></u>	<u>0.2</u>	<u>0</u>
Miscellaneous	164.3	2.9	476,528	15,884	0.318	0.084	1.906	0.003	--

**Summary of Stationary Emissions**

	<u>CO</u>	<u>ROC</u>	<u>NOx</u>	<u>PM10</u>	<u>SOx</u>
<b>Total Project Emissions (lbs/day)</b>	1.26	0.13	7.34	0.19	0.57

<sup>a</sup> Electricity Usage Rates from Table A9-11-A, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>b</sup> Emission Factors from Table A9-11-B, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>c</sup> Natural Gas Usage Rates from Table A9-12-A, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>d</sup> Emission Factors from Table A9-12-B, CEQA Air Quality Handbook, SCAQMD, 1993.

<sup>e</sup> The emission factors for NOx in lbs per million cuft of natural gas are 120 for nonresidential uses and 80 for residential uses.

Pasadena Conference Center  
URBEMIS 2002 Output Sheets

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File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase1.urb  
Project Name: Pasadena Conference Center - Phase 1  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2005 ***							
TOTALS (lbs/day, unmitigated)	13.98	99.11	108.58	0.08	99.63	4.12	95.51
TOTALS (lbs/day, mitigated)	13.98	99.11	108.58	0.08	23.88	4.12	19.76
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	31.19	102.93	112.44	0.00	4.44	4.38	0.06
TOTALS (lbs/day, mitigated)	31.19	102.93	112.44	0.00	4.44	4.38	0.06

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File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase1.urb  
Project Name: Pasadena Conference Center - Phase 1  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: March, 2005  
Construction Duration: 18  
Total Land Use Area to be Developed: 2.5 acres  
Maximum Acreage Disturbed Per Day: 2.5 acres  
Single Family Units: 0 Multi-Family Units: 0  
Retail/Office/Institutional/Industrial Square Footage: 59344

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.85	-	0.85
Off-Road Diesel	10.06	75.40	75.77	-	3.37	3.37	0.00
On-Road Diesel	0.25	5.73	0.95	0.08	0.14	0.12	0.02
Worker Trips	0.17	0.32	3.49	0.00	0.02	0.01	0.01
Maximum lbs/day	10.48	81.45	80.21	0.08	4.38	3.50	0.88
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	95.50	-	95.50
Off-Road Diesel	13.92	99.08	107.82	-	4.12	4.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.06	0.03	0.76	0.00	0.01	0.00	0.01
Maximum lbs/day	13.98	99.11	108.58	0.00	99.63	4.12	95.51
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	9.54	69.38	73.14	-	2.99	2.99	0.00

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Bldg Const Worker Trips	0.17	0.09	2.00	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	9.71	69.47	75.14	0.00	3.02	2.99	0.03
Max lbs/day all phases	13.98	99.11	108.58	0.08	99.63	4.12	95.51

\*\*\* 2006\*\*\*

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	9.54	67.14	74.44	-	2.79	2.79	0.00
Bldg Const Worker Trips	0.16	0.09	1.90	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	16.63	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.09	1.90	0.00	0.03	0.00	0.03
Asphalt Off-Gas	0.06	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.64	35.44	34.21	-	1.59	1.59	0.00
Asphalt On-Road Diesel	0.01	0.21	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	31.19	102.93	112.44	0.00	4.44	4.38	0.06
Max lbs/day all phases	31.19	102.93	112.44	0.00	4.44	4.38	0.06

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Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Mar '05  
Phase 1 Duration: 3 months  
Building Volume Total (cubic feet): 20250  
Building Volume Daily (cubic feet): 2025  
On-Road Truck Travel (VMT): 186  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Crushing/Processing Equip	154	0.780	8.0
1	Other Equipment	190	0.620	8.0
2	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '05  
Phase 2 Duration: 3 months  
On-Road Truck Travel (VMT): 0  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0

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1	Other Equipment	190	0.620	8.0
1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

**Phase 3 - Building Construction Assumptions**

Start Month/Year for Phase 3: Sep '05

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Sep '05

SubPhase Building Duration: 12 months

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Mar '06

SubPhase Architectural Coatings Duration: 6 months

Start Month/Year for SubPhase Asphalt: Aug '06

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 0.5

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rollers	114	0.430	8.0
1	Surfacing Equipment	437	0.490	8.0

**CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)**

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2005***							
<b>Phase 1 - Demolition Emissions</b>							
Fugitive Dust	-	-	-	-	0.85	-	0.85
Off-Road Diesel	10.06	75.40	75.77	-	3.37	3.37	0.00
On-Road Diesel	0.25	5.73	0.95	0.08	0.14	0.12	0.02
Worker Trips	0.17	0.32	3.49	0.00	0.02	0.01	0.01
Maximum lbs/day	10.48	81.45	80.21	0.08	4.38	3.50	0.88
<b>Phase 2 - Site Grading Emissions</b>							
Fugitive Dust	-	-	-	-	19.75	-	19.75
Off-Road Diesel	13.92	99.08	107.82	-	4.12	4.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.06	0.03	0.76	0.00	0.01	0.00	0.01
Maximum lbs/day	13.98	99.11	108.58	0.00	23.88	4.12	19.76
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	9.54	69.38	73.14	-	2.99	2.99	0.00
Bldg Const Worker Trips	0.17	0.09	2.00	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-

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Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	9.71	69.47	75.14	0.00	3.02	2.99	0.03
<b>Max lbs/day all phases</b>	<b>13.98</b>	<b>99.11</b>	<b>108.58</b>	<b>0.08</b>	<b>23.88</b>	<b>4.12</b>	<b>19.76</b>

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\*\*\* 2006\*\*\*

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	9.54	67.14	74.44	-	2.79	2.79	0.00
Bldg Const Worker Trips	0.16	0.09	1.90	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	16.63	-	-	-	-	-	-
Arch Coatings Worker Trips	0.16	0.09	1.90	0.00	0.03	0.00	0.03
Asphalt Off-Gas	0.06	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.64	35.44	34.21	-	1.59	1.59	0.00
Asphalt On-Road Diesel	0.01	0.21	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	31.19	102.93	112.44	0.00	4.44	4.38	0.06
Max lbs/day all phases	31.19	102.93	112.44	0.00	4.44	4.38	0.06

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)

Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)

Phase 2: Stockpiles: Cover all stock piles with tarps

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)

Phase 2: Unpaved Roads: Water all haul roads 2x daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)

Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Mar '05

Phase 1 Duration: 3 months

Building Volume Total (cubic feet): 20250

Building Volume Daily (cubic feet): 2025

On-Road Truck Travel (VMT): 186

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Crushing/Processing Equip	154	0.780	8.0
1	Other Equipment	190	0.620	8.0
2	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '05

Phase 2 Duration: 3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0

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1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '05

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Sep '05

SubPhase Building Duration: 12 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Mar '06

SubPhase Architectural Coatings Duration: 6 months

Start Month/Year for SubPhase Asphalt: Aug '06

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 0.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rollers	114	0.430	8.0
1	Surfacing Equipment	437	0.490	8.0

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Demolition Truck Haul Capacity changed from 20 to 12

Site Grading Fugitive Dust Emission Rate changed from 10 to 38.2

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph has been changed from off to on.



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URBEMIS 2002 Output Sheets

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URBEMIS 2002 For Windows 7.4.2

File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase2a.urb  
Project Name: Pasadena Conference Center - Phase 2a  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	13.98	96.15	110.30	0.08	99.36	3.85	95.51
TOTALS (lbs/day, mitigated)	13.98	96.15	110.30	0.08	23.61	3.85	19.76
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	113.51	99.17	121.20	0.00	4.15	3.99	0.16
TOTALS (lbs/day, mitigated)	113.51	99.17	121.20	0.00	4.15	3.99	0.16

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File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase2a.urb  
Project Name: Pasadena Conference Center - Phase 2a  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: August, 2006  
Construction Duration: 10  
Total Land Use Area to be Developed: 2.5 acres  
Maximum Acreage Disturbed Per Day: 2.5 acres  
Single Family Units: 0 Multi-Family Units: 0  
Retail/Office/Institutional/Industrial Square Footage: 175720

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.85	-	0.85
Off-Road Diesel	10.06	72.68	77.37	-	3.13	3.13	0.00
On-Road Diesel	0.24	4.34	0.89	0.08	0.12	0.10	0.02
Worker Trips	0.17	0.20	3.97	0.00	0.02	0.01	0.01
Maximum lbs/day	10.47	77.22	82.23	0.08	4.12	3.24	0.88
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	95.50	-	95.50
Off-Road Diesel	13.92	96.11	109.54	-	3.85	3.85	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.06	0.04	0.76	0.00	0.01	0.00	0.01
Maximum lbs/day	13.98	96.15	110.30	0.00	99.36	3.85	95.51
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	9.54	67.14	74.44	-	2.79	2.79	0.00

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Bldg Const Worker Trips	0.47	0.27	5.64	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	10.01	67.40	80.08	0.00	2.87	2.79	0.08
Max lbs/day all phases	13.98	96.15	110.30	0.08	99.36	3.85	95.51

\*\*\* 2007\*\*\*

**Phase 1 - Demolition Emissions**

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Phase 2 - Site Grading Emissions**

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Phase 3 - Building Construction**

Bldg Const Off-Road Diesel	9.54	64.86	75.80	-	2.53	2.53	0.00
Bldg Const Worker Trips	0.44	0.25	5.30	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	98.51	-	-	-	-	-	-
Arch Coatings Worker Trips	0.44	0.25	5.30	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.64	33.92	35.26	-	1.45	1.45	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	113.51	99.17	121.20	0.00	4.15	3.99	0.16
Max lbs/day all phases	113.51	99.17	121.20	0.00	4.15	3.99	0.16

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**Phase 1 - Demolition Assumptions**

Start Month/Year for Phase 1: Aug '06  
 Phase 1 Duration: 2 months  
 Building Volume Total (cubic feet): 20250  
 Building Volume Daily (cubic feet): 2025  
 On-Road Truck Travel (VMT): 186  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Crushing/Processing Equip	154	0.780	8.0
1	Other Equipment	190	0.620	8.0
2	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

**Phase 2 - Site Grading Assumptions**

Start Month/Year for Phase 2: Oct '06  
 Phase 2 Duration: 1 months  
 On-Road Truck Travel (VMT): 0  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0

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1	Other Equipment	190	0.620	8.0
1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Nov '06

Phase 3 Duration: 7 months

Start Month/Year for SubPhase Building: Nov '06

SubPhase Building Duration: 7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Mar '07

SubPhase Architectural Coatings Duration: 3 months

Start Month/Year for SubPhase Asphalt: May '07

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rollers	114	0.430	8.0
1	Surfacing Equipment	437	0.490	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.85	-	0.85
Off-Road Diesel	10.06	72.68	77.37	-	3.13	3.13	0.00
On-Road Diesel	0.24	4.34	0.89	0.08	0.12	0.10	0.02
Worker Trips	0.17	0.20	3.97	0.00	0.02	0.01	0.01
Maximum lbs/day	10.47	77.22	82.23	0.08	4.12	3.24	0.88
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	19.75	-	19.75
Off-Road Diesel	13.92	96.11	109.54	-	3.85	3.85	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.06	0.04	0.76	0.00	0.01	0.00	0.01
Maximum lbs/day	13.98	96.15	110.30	0.00	23.61	3.85	19.76
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	9.54	67.14	74.44	-	2.79	2.79	0.00
Bldg Const Worker Trips	0.47	0.27	5.64	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-

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Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	10.01	67.40	80.08	0.00	2.87	2.79	0.08
Max lbs/day all phases	13.98	96.15	110.30	0.08	23.61	3.85	19.76

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\*\*\* 2007\*\*\*

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	9.54	64.86	75.80	-	2.53	2.53	0.00
Bldg Const Worker Trips	0.44	0.25	5.30	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	98.51	-	-	-	-	-	-
Arch Coatings Worker Trips	0.44	0.25	5.30	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.64	33.92	35.26	-	1.45	1.45	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	113.51	99.17	121.20	0.00	4.15	3.99	0.16
Max lbs/day all phases	113.51	99.17	121.20	0.00	4.15	3.99	0.16

Construction-Related Mitigation Measures

- Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
- Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
- Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
- Phase 2: Stockpiles: Cover all stock piles with tarps  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
- Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)
- Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Aug '06  
 Phase 1 Duration: 2 months  
 Building Volume Total (cubic feet): 20250  
 Building Volume Daily (cubic feet): 2025  
 On-Road Truck Travel (VMT): 186  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Crushing/Processing Equip	154	0.780	8.0
1	Other Equipment	190	0.620	8.0
2	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Oct '06  
 Phase 2 Duration: 1 months  
 On-Road Truck Travel (VMT): 0  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0

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1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Nov '06

Phase 3 Duration: 7 months

Start Month/Year for SubPhase Building: Nov '06

SubPhase Building Duration: 7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Mar '07

SubPhase Architectural Coatings Duration: 3 months

Start Month/Year for SubPhase Asphalt: May '07

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rollers	114	0.430	8.0
1	Surfacing Equipment	437	0.490	8.0

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Demolition Truck Haul Capacity changed from 20 to 12

Site Grading Fugitive Dust Emission Rate changed from 10 to 38.2

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph has been changed from off to on.

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URBEMIS 2002 For Windows 7.4.2

File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase2b.urb  
Project Name: Pasadena Conference Center - Phase 2b  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

**SUMMARY REPORT  
(Pounds/Day - Summer)**

**CONSTRUCTION EMISSION ESTIMATES**

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	34.08	81.64	101.83	0.01	41.21	3.00	38.21
TOTALS (lbs/day, mitigated)	34.08	81.64	101.83	0.01	10.91	3.00	7.91

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URBEMIS 2002 For Windows 7.4.2

File Name: V:\AQNOISE DIVISION\Active Projects\Pasadena Conference Center\Air  
Quality\Urbemis2004\Phase2b.urb  
Project Name: Pasadena Conference Center - Phase 2b  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

**DETAIL REPORT  
(Pounds/Day - Summer)**

Construction Start Month and Year: June, 2007  
Construction Duration: 6  
Total Land Use Area to be Developed: 1 acres  
Maximum Acreage Disturbed Per Day: 1 acres  
Single Family Units: 0 Multi-Family Units: 0  
Retail/Office/Institutional/Industrial Square Footage: 25600

**CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)**

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
<b>Phase 1 - Demolition Emissions</b>							
Fugitive Dust	-	-	-	-	2.37	-	2.37
Off-Road Diesel	6.60	45.75	51.88	-	1.85	1.85	0.00
On-Road Diesel	0.37	6.64	1.38	0.01	0.19	0.16	0.03
Worker Trips	0.07	0.11	2.06	0.00	0.01	0.00	0.01
Maximum lbs/day	7.04	52.50	55.32	0.01	4.42	2.01	2.41
<b>Phase 2 - Site Grading Emissions</b>							
Fugitive Dust	-	-	-	-	38.20	-	38.20
Off-Road Diesel	9.60	67.69	74.60	-	2.75	2.75	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.02	0.54	0.00	0.01	0.00	0.01
Maximum lbs/day	9.64	67.71	75.14	0.00	40.96	2.75	38.21
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	12.43	81.57	100.29	-	3.00	3.00	0.00
Bldg Const Worker Trips	0.06	0.04	0.77	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	21.53	-	-	-	-	-	-
Arch Coatings Worker Trips	0.06	0.04	0.77	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

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Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	34.08	81.64	101.83	0.00	3.02	3.00	0.02
Max lbs/day all phases	34.08	81.64	101.83	0.01	41.21	3.00	38.21

Phase 1 - Demolition Assumptions  
 Start Month/Year for Phase 1: Jun '07  
 Phase 1 Duration: 1 months  
 Building Volume Total (cubic feet): 56400  
 Building Volume Daily (cubic feet): 5640  
 On-Road Truck Travel (VMT): 312  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions  
 Start Month/Year for Phase 2: Jul '07  
 Phase 2 Duration: 1 months  
 On-Road Truck Travel (VMT): 0  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions  
 Start Month/Year for Phase 3: Aug '07

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Phase 3 Duration: 4 months  
 Start Month/Year for SubPhase Building: Aug '07  
 SubPhase Building Duration: 4 months  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '07  
 SubPhase Architectural Coatings Duration: 2 months  
 SubPhase Asphalt Turned OFF

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions					2.37	-	2.37
Fugitive Dust	-	-	-	-	-	-	-
Off-Road Diesel	6.60	45.75	51.88	-	1.85	1.85	0.00
On-Road Diesel	0.37	6.64	1.38	0.01	0.19	0.16	0.03
Worker Trips	0.07	0.11	2.06	0.00	0.01	0.00	0.01
Maximum lbs/day	7.04	52.50	55.32	0.01	4.42	2.01	2.41

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 URBEMIS 2002 Output Sheets

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	7.90	-	7.90
Off-Road Diesel	9.60	67.69	74.60	-	2.75	2.75	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.02	0.54	0.00	0.01	0.00	0.01
Maximum lbs/day	9.64	67.71	75.14	0.00	10.66	2.75	7.91

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	12.43	81.57	100.29	-	3.00	3.00	0.00
Bldg Const Worker Trips	0.06	0.04	0.77	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	21.53	-	-	-	-	-	-
Arch Coatings Worker Trips	0.06	0.04	0.77	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	34.08	81.64	101.83	0.00	3.02	3.00	0.02

Max lbs/day all phases 34.08 81.64 101.83 0.01 10.91 3.00 7.91

Construction-Related Mitigation Measures

- Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
- Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
- Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
- Phase 2: Stockpiles: Cover all stock piles with tarps  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
- Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)
- Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Jun '07  
 Phase 1 Duration: 1 months  
 Building Volume Total (cubic feet): 56400  
 Building Volume Daily (cubic feet): 5640  
 On-Road Truck Travel (VMT): 312  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

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Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '07  
 Phase 2 Duration: 1 months  
 On-Road Truck Travel (VMT): 0  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
1	Rollers	114	0.430	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions



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Start Month/Year for Phase 3: Aug '07

Phase 3 Duration: 4 months

Start Month/Year for SubPhase Building: Aug '07

SubPhase Building Duration: 4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
1	Concrete/Industrial saws	84	0.730	8.0
1	Cranes	190	0.430	8.0
1	Other Equipment	190	0.620	8.0
1	Paving Equipment	111	0.530	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Rubber Tired Loaders	165	0.465	8.0
2	Skid Steer Loaders	62	0.515	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '07

SubPhase Architectural Coatings Duration: 2 months

SubPhase Asphalt Turned OFF

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Site Grading Fugitive Dust Emission Rate changed from 10 to 38.2

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas  
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly  
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily  
has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps  
has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily  
has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
has been changed from off to on.