

**Appendix B:**  
**Construction Emission Estimates**

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URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00+\D41288.00 Sacramento Natural Gas Storage PEA\D41288.0  
Project Name: D41288.00 SNGS Construction Emissions  
Project Location: Lower Sacramento Valley Air Basin  
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)	13.50	83.57	113.21	0.00	52.77	2.76	50.01
TOTALS (lbs/day, mitigated)	13.50	83.57	113.21	0.00	35.77	2.76	33.01

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	13.50	82.34	113.98	0.00	52.65	2.64	50.01
TOTALS (lbs/day, mitigated)	13.50	82.34	113.98	0.00	35.65	2.64	33.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	7.31	2.43	5.15	0.00	0.02

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00+\D41288.00 Sacramento Natural Gas Storage PEA\D41288.00  
Project Name: D41288.00 SNGS Construction Emissions  
Project Location: Lower Sacramento Valley Air Basin  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	13.50	83.57	113.21	0.00	52.77	2.76	50.01
TOTALS (lbs/day, mitigated)	13.50	83.57	113.21	0.00	35.77	2.76	33.01

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	13.50	82.34	113.98	0.00	52.65	2.64	50.01
TOTALS (lbs/day, mitigated)	13.50	82.34	113.98	0.00	35.65	2.64	33.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	6.81	2.42	2.03	0.00	0.00

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00+\D41288.00 Sacramento Natural Gas Storage PEA\D41288.0  
Project Name: D41288.00 SNGS Construction Emissions  
Project Location: Lower Sacramento Valley Air Basin  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (tpy, unmitigated)	0.60	3.68	4.98	0.00	2.32	0.12	2.20
TOTALS (tpy, mitigated)	0.60	3.68	4.98	0.00	1.57	0.12	1.45

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.56	2.89	4.89	0.00	0.65	0.09	0.56
TOTALS (tpy, mitigated)	0.56	2.89	4.89	0.00	0.46	0.09	0.37

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.95	0.44	0.65	0.00	0.00

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00\D41288.00 Sacramento Natural Gas Storage PEA\D41288.0  
 Project Name: D41288.00 SNGS Construction Emissions  
 Project Location: Lower Sacramento Valley Air Basin  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Winter)

Construction Start Month and Year: September, 2007  
 Construction Duration: 12  
 Total Land Use Area to be Developed: 21.73 acres  
 Maximum Acreage Disturbed Per Day: 5 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 473279.4

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	13.37	83.41	110.36	-	2.76	2.76	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.13	0.16	2.85	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	83.57	113.21	0.00	52.77	2.76	50.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	13.50	83.57	113.21	0.00	52.77	2.76	50.01
*** 2008***							
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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	13.37	82.18	111.17	-	2.64	2.64	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.13	0.16	2.81	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	82.34	113.98	0.00	52.65	2.64	50.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	4.81	28.26	40.91	-	0.86	0.86	0.00
Bldg Const Worker Trips	1.11	0.69	14.48	0.00	0.19	0.01	0.18
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	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.40	8.11	11.88	-	0.22	0.22	0.00
Asphalt On-Road Diesel	0.02	0.28	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.01	0.00	0.12	0.00	0.00	0.00	0.00
Maximum lbs/day	7.35	37.12	64.86	0.00	1.28	1.10	0.18
Max lbs/day all phases	13.50	82.34	113.98	0.00	52.65	2.64	50.01



Worker Trips	0.13	0.16	2.81	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	82.34	113.98	0.00	35.65	2.64	33.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	4.81	28.26	40.91	-	0.86	0.86	0.00
Bldg Const Worker Trips	1.11	0.69	14.48	0.00	0.19	0.01	0.18
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	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.40	8.11	11.88	-	0.22	0.22	0.00
Asphalt On-Road Diesel	0.02	0.28	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.01	0.00	0.12	0.00	0.00	0.00	0.00
Maximum lbs/day	7.35	37.12	64.86	0.00	1.28	1.10	0.18
Max lbs/day all phases	13.50	82.34	113.98	0.00	35.65	2.64	33.01

Construction-Related Mitigation Measures

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 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Sep '07  
Phase 2 Duration: 5 months  
On-Road Truck Travel (VMT): 0  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	24.0
1	Graders	174	0.575	5.0
2	Other Equipment	190	0.620	5.0
1	Tractor/Loaders/Backhoes	79	0.465	5.0
1	Trenchers	82	0.695	5.0

Phase 3 - Building Construction Assumptions  
Start Month/Year for Phase 3: Feb '08  
Phase 3 Duration: 7 months  
Start Month/Year for SubPhase Building: Mar '08  
SubPhase Building Duration: 6 months  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Rough Terrain Forklifts	94	0.475	6.0
1	Trenchers	82	0.695	6.0

SubPhase Architectural Coatings Turned OFF  
Start Month/Year for SubPhase Asphalt: Aug '08  
SubPhase Asphalt Duration: 1 months  
Acres to be Paved: 1  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	5.0
1	Rollers	114	0.430	5.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.18	2.42	2.03	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	6.63	-	-	-	-
TOTALS (lbs/day, unmitigated)	6.81	2.42	2.03	0.00	0.00



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

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

Changes made to the default values for Area

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00\D41288.00 Sacramento Natural Gas Storage PEA\D41288.0  
 Project Name: D41288.00 SNGS Construction Emissions  
 Project Location: Lower Sacramento Valley Air Basin  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: September, 2007  
 Construction Duration: 12  
 Total Land Use Area to be Developed: 21.73 acres  
 Maximum Acreage Disturbed Per Day: 5 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 473279.4

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	13.37	83.41	110.36	-	2.76	2.76	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.13	0.16	2.85	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	83.57	113.21	0.00	52.77	2.76	50.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	13.50	83.57	113.21	0.00	52.77	2.76	50.01
*** 2008***							
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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	13.37	82.18	111.17	-	2.64	2.64	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.13	0.16	2.81	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	82.34	113.98	0.00	52.65	2.64	50.01
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Bldg Const Off-Road Diesel	4.81	28.26	40.91	-	0.86	0.86	0.00
Bldg Const Worker Trips	1.11	0.69	14.48	0.00	0.19	0.01	0.18
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	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.40	8.11	11.88	-	0.22	0.22	0.00
Asphalt On-Road Diesel	0.02	0.28	0.06	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.01	0.00	0.12	0.00	0.00	0.00	0.00
Maximum lbs/day	7.35	37.12	64.86	0.00	1.28	1.10	0.18
Max lbs/day all phases	13.50	82.34	113.98	0.00	52.65	2.64	50.01



Worker Trips	0.13	0.16	2.81	0.00	0.01	0.00	0.01
Maximum lbs/day	13.50	82.34	113.98	0.00	35.65	2.64	33.01
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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	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.40	8.11	11.88	-	0.22	0.22	0.00
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Maximum lbs/day	7.35	37.12	64.86	0.00	1.28	1.10	0.18
Max lbs/day all phases	13.50	82.34	113.98	0.00	35.65	2.64	33.01

Construction-Related Mitigation Measures

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 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Sep '07

Phase 2 Duration: 5 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	24.0
1	Graders	174	0.575	5.0
2	Other Equipment	190	0.620	5.0
1	Tractor/Loaders/Backhoes	79	0.465	5.0
1	Trenchers	82	0.695	5.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Feb '08

Phase 3 Duration: 7 months

Start Month/Year for SubPhase Building: Mar '08

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Rough Terrain Forklifts	94	0.475	6.0
1	Trenchers	82	0.695	6.0

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Aug '08

SubPhase Asphalt Duration: 1 months

Acres to be Paved: 1

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	5.0
1	Rollers	114	0.430	5.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.18	2.42	2.03	0	0.00
Hearth - No summer emissions					
Landscaping	0.50	0.02	3.12	0.00	0.01
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	6.63	-	-	-	-
TOTALS (lbs/day, unmitigated)	7.31	2.43	5.15	0.00	0.02

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

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

Changes made to the default values for Area

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Projects - All Users\D21200.00\D41288.00 Sacramento Natural Gas Storage PEA\D41288.00  
 Project Name: D41288.00 SNGS Construction Emissions  
 Project Location: Lower Sacramento Valley Air Basin  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Tons/Year)

Construction Start Month and Year: September, 2007  
 Construction Duration: 12  
 Total Land Use Area to be Developed: 21.73 acres  
 Maximum Acreage Disturbed Per Day: 5 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 473279.4

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 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
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	2.20	-	2.20
Off-Road Diesel	0.59	3.67	4.86	-	0.12	0.12	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.01	0.01	0.12	0.00	0.00	0.00	0.00
Total tons/year	0.60	3.68	4.98	0.00	2.32	0.12	2.20
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.60	3.68	4.98	0.00	2.32	0.12	2.20
*** 2008***							
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
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.55	-	0.55
Off-Road Diesel	0.15	0.90	1.22	-	0.03	0.03	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	0.03	0.00	0.00	0.00	0.00
Total tons/year	0.15	0.90	1.25	0.00	0.58	0.03	0.55
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.32	1.87	2.70	-	0.06	0.06	0.00
Bldg Const Worker Trips	0.07	0.03	0.81	0.00	0.01	0.00	0.01
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	0.02	0.09	0.13	-	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
Total tons/year	0.41	1.99	3.64	0.00	0.07	0.06	0.01
Total all phases tons/yr	0.56	2.89	4.89	0.00	0.65	0.09	0.56





Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Total tons/year	0.15	0.90	1.25	0.00	0.39	0.03	0.36
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.32	1.87	2.70	-	0.06	0.06	0.00
Bldg Const Worker Trips	0.07	0.03	0.81	0.00	0.01	0.00	0.01
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	0.02	0.09	0.13	-	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
Total tons/year	0.41	1.99	3.64	0.00	0.07	0.06	0.01
Total all phases tons/yr	0.56	2.89	4.89	0.00	0.46	0.09	0.37

Construction-Related Mitigation Measures

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 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Sep '07  
Phase 2 Duration: 5 months  
On-Road Truck Travel (VMT): 0  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	24.0
1	Graders	174	0.575	5.0
2	Other Equipment	190	0.620	5.0
1	Tractor/Loaders/Backhoes	79	0.465	5.0
1	Trenchers	82	0.695	5.0

Phase 3 - Building Construction Assumptions  
Start Month/Year for Phase 3: Feb '08  
Phase 3 Duration: 7 months  
Start Month/Year for SubPhase Building: Mar '08  
SubPhase Building Duration: 6 months  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Rough Terrain Forklifts	94	0.475	6.0
1	Trenchers	82	0.695	6.0

SubPhase Architectural Coatings Turned OFF  
Start Month/Year for SubPhase Asphalt: Aug '08  
SubPhase Asphalt Duration: 1 months  
Acres to be Paved: 1  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	5.0
1	Rollers	114	0.430	5.0

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.03	0.44	0.37	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.04	0.00	0.28	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.88	-	-	-	-
TOTALS (tpy, unmitigated)	0.95	0.44	0.65	0.00	0.00

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

Changes made to the default values for Area