

URBEMIS 2002 For Windows 8.7.0

File Name: H:\Old Placerville Road\Old Placerville Air Emissions.urb
 Project Name: Old Placerville Road
 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
*** 2006 ***							
TOTALS (lbs/day,unmitigated)	9.13	64.93	72.11	0.00	52.80	2.90	49.90
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	4.92	32.49	39.93	0.00	1.33	1.30	0.03
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	91.66	52.35	70.18	0.00	1.92	1.86	0.06

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	3.54	0.57	2.39	0.02	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	5.30	6.05	62.46	0.05	4.94

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	8.83	6.63	64.85	0.07	4.95

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SUMMARY REPORT
 (Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day,unmitigated)	9.13	64.93	72.11	0.00	52.80	2.90	49.90
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	4.92	32.49	39.93	0.00	1.33	1.30	0.03
*** 2008 ***							
TOTALS (lbs/day,unmitigated)	91.66	52.35	70.18	0.00	1.92	1.86	0.06

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	23.08	1.25	36.63	0.09	5.42

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	5.72	9.17	70.43	0.05	4.94

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	28.80	10.42	107.06	0.14	10.36

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SUMMARY REPORT
 (Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (tpy, unmitigated)	0.45	3.11	3.53	0.00	1.56	0.13	1.43
*** 2007 ***							
TOTALS (tpy, unmitigated)	0.65	4.28	5.24	0.00	0.17	0.17	0.00
*** 2008 ***							
TOTALS (tpy, unmitigated)	2.28	2.33	3.06	0.00	0.09	0.09	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	1.36	0.13	1.73	0.00	0.22

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.99	1.29	11.88	0.01	0.90

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	2.35	1.42	13.61	0.01	1.12

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DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: July, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.29 acres
 Maximum Acreage Disturbed Per Day: 4.99 acres
 Single Family Units: 35 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 18711

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	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	-	-	-	-	49.90	-	49.90
Off-Road Diesel	9.06	64.85	70.64	-	2.90	2.90	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.08	1.47	0.00	0.00	0.00	0.00
Maximum lbs/day	9.13	64.93	72.11	0.00	52.80	2.90	49.90
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	4.72	33.58	36.65	-	1.44	1.44	0.00
Bldg Const Worker Trips	0.22	0.13	2.75	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	4.93	33.71	39.40	0.00	1.47	1.44	0.03
Max lbs/day all phases	9.13	64.93	72.11	0.00	52.80	2.90	49.90
*** 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	4.72	32.36	37.35	-	1.30	1.30	0.00
Bldg Const Worker Trips	0.20	0.12	2.58	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	4.92	32.49	39.93	0.00	1.33	1.30	0.03
Max lbs/day all phases	4.92	32.49	39.93	0.00	1.33	1.30	0.03
*** 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	-	-	-	-	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	4.72	31.16	38.02	-	1.17	1.17	0.00
Bldg Const Worker Trips	0.18	0.11	2.41	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	83.10	-	-	-	-	-	-
Arch Coatings Worker Trips	0.18	0.11	2.41	0.00	0.03	0.00	0.03
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.27	20.50	26.96	-	0.68	0.68	0.00
Asphalt On-Road Diesel	0.02	0.46	0.09	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.00	0.00	0.00
Maximum lbs/day	91.66	52.35	70.18	0.00	1.92	1.86	0.06
Max lbs/day all phases	91.66	52.35	70.18	0.00	1.92	1.86	0.06

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06

Phase 2 Duration: 2.6 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 21.4 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 21.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2.1 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1.1 months

Acres to be Paved: 1.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.56	0.29	0	0.00
Hearth	19.87	0.69	36.34	0.09	5.42
Landscaping - No winter emissions					
Consumer Prdcts	1.71	-	-	-	-
Architectural Coatings	1.45	-	-	-	-
TOTALS (lbs/day, unmitigated)	23.08	1.25	36.63	0.09	5.42

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	3.48	5.52	42.80	0.03	2.97
Office park	2.24	3.65	27.63	0.02	1.98
TOTAL EMISSIONS (lbs/day)	5.72	9.17	70.43	0.05	4.94

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	11.67	9.57 trips/dwelling unit	35.00	334.95
Office park		11.42 trips/1000 sq. ft.	18.71	213.68
Sum of Total Trips				548.63
Total Vehicle Miles Traveled				3,250.34

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			
% of Trips - Commercial (by land use)						
Office park				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

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DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: July, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.29 acres
 Maximum Acreage Disturbed Per Day: 4.99 acres
 Single Family Units: 35 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 18711

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	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	-	-	-	-	49.90	-	49.90
Off-Road Diesel	9.06	64.85	70.64	-	2.90	2.90	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.07	0.08	1.47	0.00	0.00	0.00	0.00
Maximum lbs/day	9.13	64.93	72.11	0.00	52.80	2.90	49.90
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	4.72	33.58	36.65	-	1.44	1.44	0.00
Bldg Const Worker Trips	0.22	0.13	2.75	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	4.93	33.71	39.40	0.00	1.47	1.44	0.03
Max lbs/day all phases	9.13	64.93	72.11	0.00	52.80	2.90	49.90
*** 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	4.72	32.36	37.35	-	1.30	1.30	0.00
Bldg Const Worker Trips	0.20	0.12	2.58	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	4.92	32.49	39.93	0.00	1.33	1.30	0.03
Max lbs/day all phases	4.92	32.49	39.93	0.00	1.33	1.30	0.03
*** 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	-	-	-	-	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	4.72	31.16	38.02	-	1.17	1.17	0.00
Bldg Const Worker Trips	0.18	0.11	2.41	0.00	0.03	0.00	0.03
Arch Coatings Off-Gas	83.10	-	-	-	-	-	-
Arch Coatings Worker Trips	0.18	0.11	2.41	0.00	0.03	0.00	0.03
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.27	20.50	26.96	-	0.68	0.68	0.00
Asphalt On-Road Diesel	0.02	0.46	0.09	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.00	0.00	0.00
Maximum lbs/day	91.66	52.35	70.18	0.00	1.92	1.86	0.06
Max lbs/day all phases	91.66	52.35	70.18	0.00	1.92	1.86	0.06

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06

Phase 2 Duration: 2.6 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 21.4 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 21.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2.1 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1.1 months

Acres to be Paved: 1.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.56	0.29	0	0.00
Hearth - No summer emissions					
Landscaping	0.33	0.01	2.10	0.02	0.01
Consumer Prdcts	1.71	-	-	-	-
Architectural Coatings	1.45	-	-	-	-
TOTALS (lbs/day,unmitigated)	3.54	0.57	2.39	0.02	0.01

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	3.25	3.65	37.75	0.03	2.97
Office park	2.04	2.41	24.71	0.02	1.98
TOTAL EMISSIONS (lbs/day)	5.30	6.05	62.46	0.05	4.94

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	11.67	9.57 trips/dwelling unit	35.00	334.95
Office park		11.42 trips/1000 sq. ft.	18.71	213.68
			Sum of Total Trips	548.63
			Total Vehicle Miles Traveled	3,250.34

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			
% of Trips - Commercial (by land use)						
Office park				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

URBEMIS 2002 For Windows 8.7.0

File Name: H:\Old Placerville Road\Old Placerville Air Emissions.urb
 Project Name: Old Placerville Road
 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: July, 2006
 Construction Duration: 24
 Total Land Use Area to be Developed: 5.29 acres
 Maximum Acreage Disturbed Per Day: 4.99 acres
 Single Family Units: 35 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 18711

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 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
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	1.43	-	1.43
Off-Road Diesel	0.26	1.85	2.02	-	0.08	0.08	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	0.04	0.00	0.00	0.00	0.00
Total tons/year	0.26	1.85	2.06	0.00	1.51	0.08	1.43
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.18	1.26	1.37	-	0.05	0.05	0.00
Bldg Const Worker Trips	0.01	0.00	0.10	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	0.19	1.26	1.47	0.00	0.05	0.05	0.00
Total all phases tons/yr	0.45	3.11	3.53	0.00	1.56	0.13	1.43
*** 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	-	-	-	-	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 3 - Building Construction							
Bldg Const Off-Road Diesel	0.62	4.27	4.93	-	0.17	0.17	0.00
Bldg Const Worker Trips	0.03	0.01	0.31	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	0.65	4.28	5.24	0.00	0.17	0.17	0.00
Total all phases tons/yr	0.65	4.28	5.24	0.00	0.17	0.17	0.00
*** 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	-	-	-	-	0.00	-	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 3 - Building Construction

Bldg Const Off-Road Diesel	0.31	2.06	2.51	-	0.08	0.08	0.00
Bldg Const Worker Trips	0.01	0.01	0.16	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	1.92	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.04	0.25	0.33	-	0.01	0.01	0.00
Asphalt On-Road Diesel	0.00	0.01	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	2.28	2.33	3.06	0.00	0.09	0.09	0.00
Total all phases tons/yr	2.28	2.33	3.06	0.00	0.09	0.09	0.00

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '06

Phase 2 Duration: 2.6 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Scrapers	313	0.660	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '06

Phase 3 Duration: 21.4 months

Start Month/Year for SubPhase Building: Sep '06

SubPhase Building Duration: 21.4 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
1	Rough Terrain Forklifts	94	0.475	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '08

SubPhase Architectural Coatings Duration: 2.1 months

Start Month/Year for SubPhase Asphalt: May '08

SubPhase Asphalt Duration: 1.1 months

Acres to be Paved: 1.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.01	0.10	0.05	0.00	0.00
Hearth	0.81	0.02	1.49	0.00	0.22
Landscaping	0.03	0.00	0.19	0.00	0.00
Consumer Prdcts	0.31	-	-	-	-
Architectural Coatings	0.19	-	-	-	-
TOTALS (tpy, unmitigated)	1.36	0.13	1.73	0.00	0.22

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	0.61	0.78	7.20	0.01	0.54
Office park	0.38	0.52	4.69	0.00	0.36
TOTAL EMISSIONS (tons/yr)	0.99	1.29	11.88	0.01	0.90

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	11.67	9.57 trips/dwelling unit	35.00	334.95
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Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
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