

APPENDIX G

Air Quality Data

Urbemis 2007 Version 9.2.4

Detail Report for Summer Area Source Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.41	18.94	12.69	0.00	0.03	0.03	23,321.76
Hearth - No Summer Emissions							
Landscape	0.65	0.08	7.11	0.00	0.02	0.02	12.06
Consumer Products	49.90						
Architectural Coatings	14.27						
TOTALS (lbs/day, unmitigated)	66.23	19.02	19.80	0.00	0.05	0.05	23,333.82

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.4

Detail Report for Winter Area Source Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	1.41	18.94	12.69	0.00	0.03	0.03	23,321.76
Hearth	205.11	23.24	1,080.32	3.36	173.44	166.94	32,368.95
Landscaping - No Winter							
Consumer Products	49.90						
Architectural Coatings	14.27						
TOTALS (lbs/day, unmitigated)	270.69	42.18	1,093.01	3.36	173.47	166.97	55,690.71

Area Source Changes to Defaults

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Urbemis 2007 Version 9.2.4

Detail Report for Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 Total</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5 Total</u>	<u>CO2</u>
Time Slice 12/1/2008-12/26/2008 Active Days: 20	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading 11/30/2008-01/11/2009	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	10.33	87.62	43.26	0.00	0.00	4.46	4.46	0.00	4.10	4.10	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.08	0.14	2.51	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.88
Time Slice 12/29/2008-12/31/2008 Active Days: 3	23.27	137.40	67.21	0.04	314.14	7.40	321.54	65.62	6.81	72.43	12,399.87
Asphalt 12/28/2008-01/11/2009	12.86	49.64	21.44	0.03	0.13	2.93	3.06	0.04	2.70	2.74	4,953.45
Paving Off-Gas	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.59	21.14	10.74	0.00	0.00	1.82	1.82	0.00	1.68	1.68	1,418.81
Paving On Road Diesel	1.74	28.43	9.31	0.03	0.12	1.11	1.23	0.04	1.02	1.06	3,406.93
Paving Worker Trips	0.05	0.08	1.39	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.71
Fine Grading 11/30/2008-01/11/2009	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	10.33	87.62	43.26	0.00	0.00	4.46	4.46	0.00	4.10	4.10	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.08	0.14	2.51	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.88
Time Slice 1/1/2009-1/9/2009 Active Days: 7	22.48	129.73	63.80	0.04	314.14	6.96	321.09	65.62	6.40	72.02	12,400.04
Asphalt 12/28/2008-01/11/2009	12.55	46.76	20.49	0.03	0.13	2.74	2.87	0.04	2.52	2.56	4,953.51
Paving Off-Gas	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.39	20.13	10.59	0.00	0.00	1.74	1.74	0.00	1.60	1.60	1,418.81
Paving On Road Diesel	1.64	26.56	8.62	0.03	0.12	1.00	1.12	0.04	0.92	0.96	3,406.93
Paving Worker Trips	0.04	0.07	1.28	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.77
Fine Grading 11/30/2008-01/11/2009	9.93	82.96	43.31	0.00	314.01	4.22	318.23	65.58	3.88	69.46	7,446.53
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	9.86	82.84	41.01	0.00	0.00	4.21	4.21	0.00	3.88	3.88	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.13	2.30	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.99
Time Slice 1/12/2009-3/10/2009 Active Days: 42	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building 01/11/2009-08/22/2009	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building Off Road Diesel	4.37	24.71	14.63	0.00	0.00	1.81	1.81	0.00	1.67	1.67	2,259.28
Building Vendor Trips	2.32	32.58	22.34	0.05	0.21	1.24	1.45	0.07	1.14	1.21	5,800.00
Building Worker Trips	5.11	8.63	158.16	0.15	0.77	0.37	1.15	0.28	0.31	0.59	15,786.57

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Time Slice 3/11/2009-8/21/2009 Active Days: 118	420.05	66.19	200.01	0.21	1.01	3.44	4.45	0.36	3.12	3.48	24,332.66
Building 01/11/2009-08/22/2009	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building Off Road Diesel	4.37	24.71	14.63	0.00	0.00	1.81	1.81	0.00	1.67	1.67	2,259.28
Building Vendor Trips	2.32	32.58	22.34	0.05	0.21	1.24	1.45	0.07	1.14	1.21	5,800.00
Building Worker Trips	5.11	8.63	158.16	0.15	0.77	0.37	1.15	0.28	0.31	0.59	15,786.57
Coating 03/11/2009-09/05/2009	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Architectural Coating	408.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.16	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Time Slice 8/24/2009-9/4/2009 Active Days: 10	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Coating 03/11/2009-09/05/2009	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Architectural Coating	408.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.16	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82

Phase Assumptions

Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 125.58

Maximum Daily Acreage Disturbed: 31.4

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 12/28/2008 - 1/11/2009 - Default Paving Description

Acres to be Paved: 31.4

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/11/2009 - 8/22/2009 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/11/2009 - 9/5/2009 - Default Architectural Coating Description

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

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

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

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

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Urbemis 2007 Version 9.2.4

Detail Report for Winter Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 12/1/2008-12/26/2008 Active Days: 20	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading 11/30/2008-01/11/2009	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	10.33	87.62	43.26	0.00	0.00	4.46	4.46	0.00	4.10	4.10	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.08	0.14	2.51	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.88
Time Slice 12/29/2008-12/31/2008 Active Days: 3	23.27	137.40	67.21	0.04	314.14	7.40	321.54	65.62	6.81	72.43	12,399.87
Asphalt 12/28/2008-01/11/2009	12.86	49.64	21.44	0.03	0.13	2.93	3.06	0.04	2.70	2.74	4,953.45
Paving Off-Gas	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.59	21.14	10.74	0.00	0.00	1.82	1.82	0.00	1.68	1.68	1,418.81
Paving On Road Diesel	1.74	28.43	9.31	0.03	0.12	1.11	1.23	0.04	1.02	1.06	3,406.93
Paving Worker Trips	0.05	0.08	1.39	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.71
Fine Grading 11/30/2008-01/11/2009	10.41	87.76	45.77	0.00	314.01	4.47	318.48	65.58	4.11	69.69	7,446.42
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	10.33	87.62	43.26	0.00	0.00	4.46	4.46	0.00	4.10	4.10	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.08	0.14	2.51	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.88
Time Slice 1/1/2009-1/9/2009 Active Days: 7	22.48	129.73	63.80	0.04	314.14	6.96	321.09	65.62	6.40	72.02	12,400.04
Asphalt 12/28/2008-01/11/2009	12.55	46.76	20.49	0.03	0.13	2.74	2.87	0.04	2.52	2.56	4,953.51
Paving Off-Gas	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.39	20.13	10.59	0.00	0.00	1.74	1.74	0.00	1.60	1.60	1,418.81
Paving On Road Diesel	1.64	26.56	8.62	0.03	0.12	1.00	1.12	0.04	0.92	0.96	3,406.93
Paving Worker Trips	0.04	0.07	1.28	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.77
Fine Grading 11/30/2008-01/11/2009	9.93	82.96	43.31	0.00	314.01	4.22	318.23	65.58	3.88	69.46	7,446.53
Fine Grading Dust	0.00	0.00	0.00	0.00	314.00	0.00	314.00	65.58	0.00	65.58	0.00
Fine Grading Off Road Diesel	9.86	82.84	41.01	0.00	0.00	4.21	4.21	0.00	3.88	3.88	7,216.54
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.13	2.30	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.99
Time Slice 1/12/2009-3/10/2009 Active Days: 42	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building 01/11/2009-08/22/2009	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building Off Road Diesel	4.37	24.71	14.63	0.00	0.00	1.81	1.81	0.00	1.67	1.67	2,259.28
Building Vendor Trips	2.32	32.58	22.34	0.05	0.21	1.24	1.45	0.07	1.14	1.21	5,800.00
Building Worker Trips	5.11	8.63	158.16	0.15	0.77	0.37	1.15	0.28	0.31	0.59	15,786.57

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Time Slice 3/11/2009-8/21/2009 Active Days: 118	420.05	66.19	200.01	0.21	1.01	3.44	4.45	0.36	3.12	3.48	24,332.66
Building 01/11/2009-08/22/2009	11.80	65.92	195.13	0.21	0.98	3.43	4.41	0.35	3.11	3.46	23,845.84
Building Off Road Diesel	4.37	24.71	14.63	0.00	0.00	1.81	1.81	0.00	1.67	1.67	2,259.28
Building Vendor Trips	2.32	32.58	22.34	0.05	0.21	1.24	1.45	0.07	1.14	1.21	5,800.00
Building Worker Trips	5.11	8.63	158.16	0.15	0.77	0.37	1.15	0.28	0.31	0.59	15,786.57
Coating 03/11/2009-09/05/2009	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Architectural Coating	408.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.16	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Time Slice 8/24/2009-9/4/2009 Active Days: 10	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Coating 03/11/2009-09/05/2009	408.25	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82
Architectural Coating	408.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.16	0.27	4.88	0.00	0.02	0.01	0.04	0.01	0.01	0.02	486.82

Phase Assumptions

Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 125.58

Maximum Daily Acreage Disturbed: 31.4

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 12/28/2008 - 1/11/2009 - Default Paving Description

Acres to be Paved: 31.4

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/11/2009 - 8/22/2009 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/11/2009 - 9/5/2009 - Default Architectural Coating Description

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

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

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

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

Urbemis 2007 Version 9.2.4

Detail Report for Summer Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Mobile Source.urb924

Project Name: Roseville Operational

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	436.78	637.39	5,557.81	4.36	752.27	146.98	444,283.93
TOTALS (lbs/day, unmitigated)	436.78	637.39	5,557.81	4.36	752.27	146.98	444,283.93

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	0.33	50,852.00	dwelling units	1.00	50,852.00	434,769.35
					50,852.00	434,769.35

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	39.8	1.8	97.7	0.5
Light Truck < 3750 lbs	14.2	3.5	87.3	9.2

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Light Truck 3751-5750 lbs	22.4	0.9	98.7	0.4
Med Truck 5751-8500 lbs	11.0	0.9	98.2	0.9
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	69.2	30.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.2	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	70.9	29.1	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Operational Changes to Defaults

Urbemis 2007 Version 9.2.4

Detail Report for Winter Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Mobile Source.urb924

Project Name: Roseville Operational

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	559.15	913.55	6,266.11	3.90	752.27	146.98	388,634.95
TOTALS (lbs/day, unmitigated)	559.15	913.55	6,266.11	3.90	752.27	146.98	388,634.95

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Temperature (F): 40 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	0.33	50,852.00	dwelling units	1.00	50,852.00	434,769.35
					50,852.00	434,769.35

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	39.8	1.8	97.7	0.5
Light Truck < 3750 lbs	14.2	3.5	87.3	9.2

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Light Truck 3751-5750 lbs	22.4	0.9	98.7	0.4
Med Truck 5751-8500 lbs	11.0	0.9	98.2	0.9
Lite-Heavy Truck 8501-10,000 lbs	2.6	0.0	69.2	30.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	1.2	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	5.5	70.9	29.1	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	84.6	15.4

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Operational Changes to Defaults

Urbemis 2007 Version 9.2.4

Summary Report for Summer Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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>
2008 TOTALS (lbs/day unmitigated)	23.27	137.40	67.21	0.04	314.14	7.40	321.54	65.62	6.81	72.43	12,399.87
2009 TOTALS (lbs/day unmitigated)	420.05	129.73	200.01	0.21	314.14	6.96	321.09	65.62	6.40	72.02	24,332.66

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	66.23	19.02	19.80	0.00	0.05	0.05	23,333.82

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	436.78	637.39	5,557.81	4.36	752.27	146.98	444,283.93

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	503.01	656.41	5,577.61	4.36	752.32	147.03	467,617.75

Urbemis 2007 Version 9.2.4

Summary Report for Winter Emissions (Pounds/Day)

File Name: C:\Documents and Settings\boparaip\Desktop\Work\Roseville Downtown EIR\Roseville 040108\Roseville Downtown SP.urb924

Project Name: Roseville Downtown Specific Plan

Project Location: Placer County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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>
2008 TOTALS (lbs/day unmitigated)	23.27	137.40	67.21	0.04	314.14	7.40	321.54	65.62	6.81	72.43	12,399.87
2009 TOTALS (lbs/day unmitigated)	420.05	129.73	200.01	0.21	314.14	6.96	321.09	65.62	6.40	72.02	24,332.66

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	270.69	42.18	1,093.01	3.36	173.47	166.97	55,690.71

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	559.15	913.55	6,266.11	3.90	752.27	146.98	388,634.95

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	829.84	955.73	7,359.12	7.26	925.74	313.95	444,325.66