Construction Outputs by Year

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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\20197\Desktop\Construction\Alternative 1 Phase 2b.urb924

Project Name: Alternative 1 Phase 2b

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/15/2019-8/15/2019 Active Days: 67	1.82	12.62	10.32	0.00	28.74	0.55	29.29	6.00	0.51	6.51	2,488.45
Fine Grading 05/15/2019-08/15/2019	1.79	12.29	10.19	0.00	28.73	0.54	29.27	6.00	0.50	6.50	2,349.56
Fine Grading Dust	0.00	0.00	0.00	0.00	28.73	0.00	28.73	6.00	0.00	6.00	0.00
Fine Grading Off Road Diesel	1.76	12.24	9.35	0.00	0.00	0.54	0.54	0.00	0.50	0.50	2,247.32
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	0.03	0.05	0.84	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.25
Mass Grading 05/15/2019-12/21/2020	0.03	0.33	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.33	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/16/2019-12/31/2019 Active Days: 98	1.84	9.97	13.49	0.01	0.04	0.49	0.53	0.01	0.45	0.46	2,479.54
Building 08/16/2019-12/21/2020	1.81	9.64	13.36	0.01	0.03	0.48	0.51	0.01	0.44	0.45	2,340.66
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.05	0.45	0.57	0.00	0.01	0.02	0.03	0.00	0.02	0.02	240.95
Building Worker Trips	0.14	0.23	3.92	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.51
Mass Grading 05/15/2019-12/21/2020	0.03	0.33	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.33	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2020-8/7/2020 Active Days: 158	1.66	9.27	12.93	0.01	0.04	0.43	0.47	0.01	0.40	0.41	2,479.74
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Mass Grading 05/15/2019-12/21/2020	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2020-11/20/2020 Active Days: 75	18.31	9.28	13.08	0.01	0.04	0.43	0.47	0.01	0.40	0.41	2,499.61
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Coating 08/10/2020-12/21/2020	16.65	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Architectural Coating	16.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Mass Grading 05/15/2019-12/21/2020	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/23/2020-12/21/2020 Active Days: 21	**19.87**	18.19	23.18	0.01	0.05	1.06	1.11	0.02	0.97	0.99	4,031.56
Asphalt 11/21/2020-12/21/2020	1.57	8.91	10.10	0.00	0.01	0.63	0.64	0.00	0.58	0.58	1,531.95
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.38	8.70	8.54	0.00	0.00	0.62	0.62	0.00	0.57	0.57	1,272.04
Paving On Road Diesel	0.01	0.12	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	55.34
Paving Worker Trips	0.05	0.09	1.52	0.00	0.01	0.01	0.02	0.00	0.00	0.01	204.57
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Coating 08/10/2020-12/21/2020	16.65	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Architectural Coating	16.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Mass Grading 05/15/2019-12/21/2020	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.30	0.12	0.00	0.00	0.01	0.02	0.00	0.01	0.01	138.88
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2019 - 8/15/2019 - Default Fine Site Grading Description

Total Acres Disturbed: 4.06

Maximum Daily Acreage Disturbed: 1.02

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 157 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2019 - 12/21/2020 - Truck trips
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 34.5
Off-Road Equipment:

Phase: Paving 11/21/2020 - 12/21/2020 - Type Your Description Here
Acres to be Paved: 1.02
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2019 - 12/21/2020 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2020 - 12/21/2020 - Type Your Description Here
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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 1 Phase 2a.urb924

Project Name: Alternative 1 Phase 2a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2017 TOTALS (lbs/day unmitigated)	2.13	15.55	11.11	0.01	43.89	0.71	44.59	9.17	0.65	9.82	2,617.04
2018 TOTALS (lbs/day unmitigated)	15.45	13.28	16.72	0.01	0.05	0.80	0.85	0.02	0.74	0.75	2,945.93

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2017-8/15/2017 Active Days: 67	2.13	**15.55**	11.11	0.00	**43.89**	0.71	**44.59**	**9.17**	0.65	**9.82**	2,617.04
Fine Grading 05/15/2017-08/15/2017	2.06	14.75	10.81	0.00	43.88	0.68	44.56	9.16	0.62	9.79	2,349.48
Fine Grading Dust	0.00	0.00	0.00	0.00	43.87	0.00	43.87	9.16	0.00	9.16	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.04	0.06	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.17
Mass Grading 05/15/2017-12/21/2018	0.07	0.81	0.30	0.00	0.01	0.03	0.04	0.00	0.03	0.03	267.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.07	0.81	0.30	0.00	0.01	0.03	0.04	0.00	0.03	0.03	267.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2017-12/29/2017 Active Days: 98	0.96	6.44	8.79	0.01	0.03	0.31	0.35	0.01	0.29	0.30	1,730.37
Building 08/16/2017-12/21/2018	0.89	5.63	8.48	0.01	0.03	0.28	0.31	0.01	0.26	0.27	1,462.82
Building Off Road Diesel	0.71	4.97	4.22	0.00	0.00	0.26	0.26	0.00	0.24	0.24	893.39
Building Vendor Trips	0.04	0.44	0.52	0.00	0.01	0.02	0.02	0.00	0.02	0.02	188.56
Building Worker Trips	0.14	0.23	3.75	0.00	0.02	0.01	0.03	0.01	0.01	0.01	380.88
Mass Grading 05/15/2017-12/21/2018	0.07	0.81	0.30	0.00	0.01	0.03	0.04	0.00	0.03	0.03	267.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.07	0.81	0.30	0.00	0.01	0.03	0.04	0.00	0.03	0.03	267.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 1/1/2018-8/9/2018 Active Days: 159	0.88	5.78	8.35	0.01	0.03	0.27	0.31	0.01	0.25	0.26	1,730.53
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Mass Grading 05/15/2017-12/21/2018	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/10/2018-11/20/2018 Active Days: 73	14.13	5.78	8.49	0.01	0.04	0.27	0.31	0.01	0.25	0.26	1,746.33
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2018-12/21/2018 Active Days: 23	**15.45**	13.28	**16.72**	**0.01**	0.05	**0.80**	0.85	0.02	**0.74**	0.75	**2,945.93**
Asphalt 11/21/2018-12/21/2018	1.32	7.50	8.23	0.00	0.01	0.53	0.54	0.00	0.49	0.49	1,199.60
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.16	7.29	6.58	0.00	0.00	0.52	0.52	0.00	0.48	0.48	979.23
Paving On Road Diesel	0.01	0.11	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	41.51
Paving Worker Trips	0.06	0.10	1.61	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.86
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.06	0.72	0.28	0.00	0.01	0.03	0.03	0.00	0.02	0.03	267.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2017 - 8/15/2017 - Default Fine Site Grading Description

Total Acres Disturbed: 3.21

Maximum Daily Acreage Disturbed: 0.8

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 304 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2017 - 12/21/2018 - Haul Trucking

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 66.46

Off-Road Equipment:

Phase: Paving 11/21/2018 - 12/21/2018 - Type Your Description Here

Acres to be Paved: 0.8

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2017 - 12/21/2018 - Default Building Construction Description

Off-Road Equipment:

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

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

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2018 - 12/21/2018 - Type Your Description Here

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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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 1 Phase 1b.urb924

Project Name: Alternative 1 Construction Phase 1b and 1c

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2014 TOTALS (lbs/day unmitigated)	2.47	19.21	12.06	0.01	11.40	0.89	12.29	2.38	0.82	3.20	2,361.14
2015 TOTALS (lbs/day unmitigated)	1.07	7.02	9.82	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,524.30
2016 TOTALS (lbs/day unmitigated)	16.83	14.96	18.12	0.01	0.04	0.97	1.00	0.01	0.89	0.90	2,745.20

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2014-8/15/2014 Active Days: 67	2.47	19.21	12.06	0.00	11.40	0.89	12.29	2.38	0.82	3.20	2,361.14
Fine Grading 05/15/2014-08/15/2014	2.46	19.16	12.04	0.00	11.40	0.89	12.29	2.38	0.82	3.20	2,349.34
Fine Grading Dust	0.00	0.00	0.00	0.00	11.40	0.00	11.40	2.38	0.00	2.38	0.00
Fine Grading Off Road Diesel	2.41	19.08	10.74	0.00	0.00	0.89	0.89	0.00	0.82	0.82	2,247.32
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	0.05	0.08	1.30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.03
Mass Grading 05/15/2014-12/21/2016	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/18/2014-12/31/2014 Active Days: 98	1.15	7.78	10.38	0.01	0.03	0.41	0.44	0.01	0.37	0.38	1,524.06
Building 08/16/2014-12/21/2016	1.15	7.72	10.37	0.01	0.03	0.41	0.43	0.01	0.37	0.38	1,512.26
Building Off Road Diesel	0.88	6.70	4.39	0.00	0.00	0.37	0.37	0.00	0.34	0.34	893.39
Building Vendor Trips	0.07	0.71	0.73	0.00	0.01	0.03	0.03	0.00	0.02	0.03	207.51
Building Worker Trips	0.20	0.32	5.25	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.37
Mass Grading 05/15/2014-12/21/2016	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2015-12/31/2015 Active Days: 261	1.07	7.02	9.82	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,524.30
Building 08/16/2014-12/21/2016	1.06	6.98	9.80	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,512.50
Building Off Road Diesel	0.83	6.06	4.31	0.00	0.00	0.35	0.35	0.00	0.32	0.32	893.39
Building Vendor Trips	0.06	0.62	0.67	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.53
Building Worker Trips	0.18	0.29	4.82	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.58
Mass Grading 05/15/2014-12/21/2016	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2016-8/9/2016 Active Days: 158	0.99	6.35	9.31	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,524.50
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Mass Grading 05/15/2014-12/21/2016	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2016-11/18/2016 Active Days: 73	15.33	6.36	9.50	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,541.59
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2016-12/21/2016 Active Days: 23	**16.83**	14.96	18.12	0.01	0.04	0.97	1.00	0.01	0.89	0.90	2,745.20
Asphalt 11/21/2016-12/21/2016	1.50	8.60	8.62	0.00	0.01	0.64	0.65	0.00	0.59	0.59	1,203.61
Paving Off-Gas	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.32	8.33	6.64	0.00	0.00	0.63	0.63	0.00	0.58	0.58	979.23
Paving On Road Diesel	0.01	0.16	0.06	0.00	0.00	0.01	0.01	0.00	0.01	0.01	45.66
Paving Worker Trips	0.07	0.12	1.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.72
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.80
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2014 - 8/15/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 3.5

Maximum Daily Acreage Disturbed: 0.88

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 22 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2014 - 12/21/2016 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 2.93

Off-Road Equipment:

Phase: Paving 11/21/2016 - 12/21/2016 - Default Paving Description

Acres to be Paved: 0.88

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2014 - 12/21/2016 - Default Building Construction Description

Off-Road Equipment:

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

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

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2016 - 12/21/2016 - Default Architectural Coating Description

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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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 1 Phase 1.urb924

Project Name: Alternative 1 Construction Phase 1a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2011 TOTALS (lbs/day unmitigated)	5.37	29.66	48.49	0.04	157.96	1.57	159.36	32.99	1.44	34.28	5,360.22
2012 TOTALS (lbs/day unmitigated)	4.96	25.72	45.41	0.04	0.16	1.42	1.58	0.06	1.30	1.36	5,361.52
2013 TOTALS (lbs/day unmitigated)	74.09	40.21	56.99	0.04	0.18	2.62	2.80	0.06	2.41	2.47	7,280.70

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/16/2011-8/15/2011 Active Days: 66	3.29	29.66	15.63	0.01	157.96	1.40	159.36	32.99	1.29	34.28	3,287.38
Fine Grading 05/15/2011-08/15/2011	2.89	23.54	13.60	0.00	157.92	1.17	159.10	32.98	1.08	34.06	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	157.92	0.00	157.92	32.98	0.00	32.98	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85
Mass Grading 05/15/2011-12/21/2013	0.40	6.12	2.02	0.01	0.03	0.23	0.26	0.01	0.21	0.22	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.40	6.12	2.02	0.01	0.03	0.23	0.26	0.01	0.21	0.22	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2011-12/30/2011 Active Days: 99	5.37	27.81	48.49	0.04	0.16	1.57	1.73	0.06	1.44	1.49	5,360.22
Building 08/16/2011-12/21/2013	4.97	21.69	46.47	0.03	0.13	1.34	1.47	0.05	1.23	1.27	4,422.01
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.34	4.06	3.67	0.01	0.03	0.15	0.18	0.01	0.14	0.15	822.81
Building Worker Trips	1.24	1.96	31.95	0.02	0.10	0.06	0.15	0.04	0.05	0.08	1,978.00
Mass Grading 05/15/2011-12/21/2013	0.40	6.12	2.02	0.01	0.03	0.23	0.26	0.01	0.21	0.22	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.40	6.12	2.02	0.01	0.03	0.23	0.26	0.01	0.21	0.22	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/2/2012-12/31/2012 Active Days: 261	4.96	25.72	45.41	0.04	0.16	1.42	1.58	0.06	1.30	1.36	5,361.52
Building 08/16/2011-12/21/2013	4.59	20.26	43.57	0.03	0.13	1.22	1.35	0.05	1.12	1.16	4,423.31
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95	1,621.20
Building Vendor Trips	0.31	3.63	3.39	0.01	0.03	0.13	0.16	0.01	0.12	0.13	822.95
Building Worker Trips	1.14	1.81	29.66	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,979.17
Mass Grading 05/15/2011-12/21/2013	0.37	5.46	1.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.37	5.46	1.84	0.01	0.03	0.20	0.23	0.01	0.18	0.19	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2013-8/9/2013 Active Days: 159	4.54	23.61	42.40	0.04	0.16	1.28	1.44	0.06	1.17	1.22	5,362.84
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Mass Grading 05/15/2011-12/21/2013	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/12/2013-11/20/2013 Active Days: 73	70.99	23.67	43.50	0.04	0.16	1.28	1.44	0.06	1.17	1.23	5,441.87
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Coating 08/10/2013-12/21/2013	66.45	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Architectural Coating	66.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Mass Grading 05/15/2011-12/21/2013	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2013-12/20/2013 Active Days: 22	**74.09**	40.21	**56.99**	0.04	0.18	2.62	2.80	0.06	2.41	2.47	7,280.70
Asphalt 11/21/2013-12/21/2013	3.09	16.54	13.49	0.00	0.02	1.34	1.36	0.01	1.23	1.24	1,838.83
Paving Off-Gas	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.48	15.36	9.98	0.00	0.00	1.30	1.30	0.00	1.20	1.20	1,418.44
Paving On Road Diesel	0.07	0.98	0.34	0.00	0.01	0.04	0.04	0.00	0.03	0.04	190.96
Paving Worker Trips	0.12	0.19	3.18	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.43
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Coating 08/10/2013-12/21/2013	66.45	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Architectural Coating	66.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Mass Grading 05/15/2011-12/21/2013	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.34	4.82	1.65	0.01	0.03	0.18	0.21	0.01	0.16	0.17	938.21
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 8/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 14.1

Maximum Daily Acreage Disturbed: 3.52

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1040 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2011 - 12/21/2013 - Haul Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 233.04

Off-Road Equipment:

Phase: Paving 11/21/2013 - 12/21/2013 - Default Paving Description

Acres to be Paved: 3.52

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2011 - 12/21/2013 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2013 - 12/21/2013 - 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 Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 1A Phase 1a.urb924

Project Name: Alternative 1A Construction Phase 1a

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/16/2011-10/14/2011 Active Days: 110	3.13	27.24	14.83	0.01	**158.14**	1.31	**159.46**	**33.03**	1.21	**34.24**	2,916.23
Fine Grading 05/15/2011-10/15/2011	2.89	23.54	13.60	0.00	158.12	1.17	159.30	33.02	1.08	34.10	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	158.12	0.00	158.12	33.02	0.00	33.02	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85
Mass Grading 05/15/2011-12/21/2013	0.24	3.70	1.22	0.01	0.02	0.14	0.16	0.01	0.13	0.13	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.24	3.70	1.22	0.01	0.02	0.14	0.16	0.01	0.13	0.13	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 10/17/2011-12/30/2011 Active Days: 55	5.22	25.48	47.90	0.03	0.15	1.48	1.63	0.05	1.36	1.41	5,013.29
Building 10/16/2011-12/21/2013	4.98	21.78	46.68	0.03	0.13	1.34	1.47	0.05	1.23	1.28	4,446.21
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.35	4.13	3.73	0.01	0.03	0.15	0.18	0.01	0.14	0.15	837.70
Building Worker Trips	1.25	1.97	32.10	0.02	0.10	0.06	0.15	0.04	0.05	0.08	1,987.31
Mass Grading 05/15/2011-12/21/2013	0.24	3.70	1.22	0.01	0.02	0.14	0.16	0.01	0.13	0.13	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.24	3.70	1.22	0.01	0.02	0.14	0.16	0.01	0.13	0.13	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/2/2012-12/31/2012 Active Days: 261	4.82	23.63	44.88	0.03	0.15	1.35	1.50	0.05	1.23	1.28	5,014.59
Building 10/16/2011-12/21/2013	4.60	20.33	43.77	0.03	0.13	1.23	1.35	0.05	1.12	1.17	4,447.52
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95	1,621.20
Building Vendor Trips	0.32	3.70	3.45	0.01	0.03	0.14	0.17	0.01	0.12	0.14	837.84
Building Worker Trips	1.15	1.82	29.80	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,988.49
Mass Grading 05/15/2011-12/21/2013	0.22	3.30	1.11	0.01	0.02	0.12	0.14	0.01	0.11	0.12	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.22	3.30	1.11	0.01	0.02	0.12	0.14	0.01	0.11	0.12	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 1/1/2013-8/9/2013 Active Days: 159	4.42	21.77	41.93	0.03	0.15	1.21	1.36	0.05	1.11	1.16	5,015.92
Building 10/16/2011-12/21/2013	4.22	18.86	40.93	0.03	0.13	1.10	1.23	0.05	1.01	1.06	4,448.85
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.27	3.18	0.01	0.03	0.12	0.15	0.01	0.11	0.12	837.97
Building Worker Trips	1.05	1.68	27.55	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,989.68
Mass Grading 05/15/2011-12/21/2013	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/12/2013-11/20/2013 Active Days: 73	71.12	21.84	43.03	0.03	0.15	1.21	1.37	0.05	1.11	1.16	5,095.24
Building 10/16/2011-12/21/2013	4.22	18.86	40.93	0.03	0.13	1.10	1.23	0.05	1.01	1.06	4,448.85
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.27	3.18	0.01	0.03	0.12	0.15	0.01	0.11	0.12	837.97
Building Worker Trips	1.05	1.68	27.55	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,989.68
Coating 08/10/2013-12/21/2013	66.70	0.07	1.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.32
Architectural Coating	66.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.32
Mass Grading 05/15/2011-12/21/2013	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 11/21/2013-12/20/2013 Active Days: 22	**74.21**	**38.38**	**56.52**	**0.04**	0.17	**2.56**	2.73	0.06	**2.34**	2.40	**6,935.15**
Asphalt 11/21/2013-12/21/2013	3.10	16.54	13.49	0.00	0.02	1.34	1.36	0.01	1.23	1.24	1,839.91
Paving Off-Gas	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.48	15.36	9.98	0.00	0.00	1.30	1.30	0.00	1.20	1.20	1,418.44
Paving On Road Diesel	0.07	0.99	0.34	0.00	0.01	0.04	0.04	0.00	0.03	0.04	192.05
Paving Worker Trips	0.12	0.19	3.18	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.43
Building 10/16/2011-12/21/2013	4.22	18.86	40.93	0.03	0.13	1.10	1.23	0.05	1.01	1.06	4,448.85
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.27	3.18	0.01	0.03	0.12	0.15	0.01	0.11	0.12	837.97
Building Worker Trips	1.05	1.68	27.55	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,989.68
Coating 08/10/2013-12/21/2013	66.70	0.07	1.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.32
Architectural Coating	66.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.32
Mass Grading 05/15/2011-12/21/2013	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.20	2.91	1.00	0.01	0.02	0.11	0.13	0.01	0.10	0.10	567.07
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 10/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 14.15

Maximum Daily Acreage Disturbed: 3.54

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 1040 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2011 - 12/21/2013 - Haul Truck Trips
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 140.85
Off-Road Equipment:

Phase: Paving 11/21/2013 - 12/21/2013 - Default Paving Description
Acres to be Paved: 3.54
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 10/16/2011 - 12/21/2013 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2013 - 12/21/2013 - 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 Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 1A Phase 2b.urb924

Project Name: Alternative 1A Phase 2b

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/15/2019-8/15/2019 Active Days: 67	1.81	**12.47**	10.26	0.00	**26.74**	0.55	**27.28**	**5.58**	0.50	**6.09**	2,425.03
Fine Grading 05/15/2019-08/15/2019	1.79	12.29	10.19	0.00	26.73	0.54	27.28	5.58	0.50	6.08	2,349.56
Fine Grading Dust	0.00	0.00	0.00	0.00	26.73	0.00	26.73	5.58	0.00	5.58	0.00
Fine Grading Off Road Diesel	1.76	12.24	9.35	0.00	0.00	0.54	0.54	0.00	0.50	0.50	2,247.32
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	0.03	0.05	0.84	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.25
Mass Grading 05/15/2019-12/21/2020	0.02	0.18	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.02	0.18	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/16/2019-12/31/2019 Active Days: 98	0.81	4.83	8.43	0.01	0.03	0.22	0.26	0.01	0.20	0.22	1,644.04
Building 08/16/2019-12/21/2020	0.79	4.65	8.35	0.01	0.03	0.22	0.25	0.01	0.20	0.21	1,568.58
Building Off Road Diesel	0.62	4.01	4.13	0.00	0.00	0.19	0.19	0.00	0.17	0.17	893.39
Building Vendor Trips	0.05	0.42	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	226.12
Building Worker Trips	0.13	0.22	3.68	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.07
Mass Grading 05/15/2019-12/21/2020	0.02	0.18	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.02	0.18	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2020-8/7/2020 Active Days: 158	0.75	4.37	8.00	0.01	0.03	0.20	0.23	0.01	0.18	0.19	1,644.23
Building 08/16/2019-12/21/2020	0.73	4.20	7.94	0.01	0.03	0.19	0.22	0.01	0.17	0.18	1,568.76
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.04	0.38	0.50	0.00	0.01	0.01	0.02	0.00	0.01	0.02	226.13
Building Worker Trips	0.12	0.20	3.33	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.24
Mass Grading 05/15/2019-12/21/2020	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2020-11/20/2020 Active Days: 75	16.37	4.37	8.14	0.01	0.03	0.20	0.23	0.01	0.18	0.19	1,662.87
Building 08/16/2019-12/21/2020	0.73	4.20	7.94	0.01	0.03	0.19	0.22	0.01	0.17	0.18	1,568.76
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.04	0.38	0.50	0.00	0.01	0.01	0.02	0.00	0.01	0.02	226.13
Building Worker Trips	0.12	0.20	3.33	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.24
Coating 08/10/2020-12/21/2020	15.62	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.65
Architectural Coating	15.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.65
Mass Grading 05/15/2019-12/21/2020	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/23/2020-12/21/2020 Active Days: 21	**17.54**	10.96	**16.03**	**0.01**	0.04	**0.64**	0.68	0.02	**0.58**	0.60	**2,872.64**
Asphalt 11/21/2020-12/21/2020	1.17	6.59	7.89	0.00	0.01	0.44	0.45	0.00	0.41	0.41	1,209.76
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.01	6.40	6.52	0.00	0.00	0.43	0.43	0.00	0.40	0.40	979.23
Paving On Road Diesel	0.01	0.11	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	51.54
Paving Worker Trips	0.05	0.08	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.00
Building 08/16/2019-12/21/2020	0.73	4.20	7.94	0.01	0.03	0.19	0.22	0.01	0.17	0.18	1,568.76
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.04	0.38	0.50	0.00	0.01	0.01	0.02	0.00	0.01	0.02	226.13
Building Worker Trips	0.12	0.20	3.33	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.24
Coating 08/10/2020-12/21/2020	15.62	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.65
Architectural Coating	15.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.65
Mass Grading 05/15/2019-12/21/2020	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.16	0.07	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.47
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2019 - 8/15/2019 - Default Fine Site Grading Description

Total Acres Disturbed: 3.81

Maximum Daily Acreage Disturbed: 0.95

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 146 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2019 - 12/21/2020 - Truck trips
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 18.74
Off-Road Equipment:

Phase: Paving 11/21/2020 - 12/21/2020 - Type Your Description Here
Acres to be Paved: 0.95
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2019 - 12/21/2020 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2020 - 12/21/2020 - Type Your Description Here
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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Detail Report for Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 1A Phase 2a.urb924

Project Name: Alternative 1A Phase 2a

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/15/2017-8/15/2017 Active Days: 67	2.11	**15.29**	11.01	0.00	**48.25**	0.70	**48.95**	**10.08**	0.64	**10.72**	2,528.74
Fine Grading 05/15/2017-08/15/2017	2.06	14.75	10.81	0.00	48.24	0.68	48.92	10.08	0.62	10.70	2,349.48
Fine Grading Dust	0.00	0.00	0.00	0.00	48.24	0.00	48.24	10.07	0.00	10.07	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.04	0.06	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.17
Mass Grading 05/15/2017-12/21/2018	0.04	0.54	0.20	0.00	0.01	0.02	0.03	0.00	0.02	0.02	179.25
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.04	0.54	0.20	0.00	0.01	0.02	0.03	0.00	0.02	0.02	179.25
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 8/16/2017-12/29/2017 Active Days: 98	0.93	6.17	8.69	0.01	0.03	0.30	0.34	0.01	0.28	0.29	1,642.07
Building 08/16/2017-12/21/2018	0.89	5.63	8.48	0.01	0.03	0.28	0.31	0.01	0.26	0.27	1,462.82
Building Off Road Diesel	0.71	4.97	4.22	0.00	0.00	0.26	0.26	0.00	0.24	0.24	893.39
Building Vendor Trips	0.04	0.44	0.52	0.00	0.01	0.02	0.02	0.00	0.02	0.02	188.56
Building Worker Trips	0.14	0.23	3.75	0.00	0.02	0.01	0.03	0.01	0.01	0.01	380.88
Mass Grading 05/15/2017-12/21/2018	0.04	0.54	0.20	0.00	0.01	0.02	0.03	0.00	0.02	0.02	179.25
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.04	0.54	0.20	0.00	0.01	0.02	0.03	0.00	0.02	0.02	179.25
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2018-8/9/2018 Active Days: 159	0.86	5.54	8.25	0.01	0.03	0.26	0.30	0.01	0.24	0.25	1,642.23
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Mass Grading 05/15/2017-12/21/2018	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2018-11/20/2018 Active Days: 73	14.11	5.55	8.40	0.01	0.03	0.26	0.30	0.01	0.24	0.25	1,658.04
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 11/21/2018-12/21/2018 Active Days: 23	**15.43**	13.05	**16.63**	**0.01**	0.04	**0.80**	0.84	0.02	**0.73**	0.75	**2,857.64**
Asphalt 11/21/2018-12/21/2018	1.32	7.50	8.23	0.00	0.01	0.53	0.54	0.00	0.49	0.49	1,199.60
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.16	7.29	6.58	0.00	0.00	0.52	0.52	0.00	0.48	0.48	979.23
Paving On Road Diesel	0.01	0.11	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	41.51
Paving Worker Trips	0.06	0.10	1.61	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.86
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.04	0.48	0.19	0.00	0.01	0.02	0.02	0.00	0.02	0.02	179.25
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2017 - 8/15/2017 - Default Fine Site Grading Description

Total Acres Disturbed: 3.21

Maximum Daily Acreage Disturbed: 0.8

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 341 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2017 - 12/21/2018 - Haul Trucking
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 44.52
Off-Road Equipment:

Phase: Paving 11/21/2018 - 12/21/2018 - Type Your Description Here
Acres to be Paved: 0.8
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2017 - 12/21/2018 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2018 - 12/21/2018 - Type Your Description Here
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 Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alt 1A Phase 1b.urb924

Project Name: Alternative 1A Construction Phase 1b and 1c

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/15/2014-8/15/2014 Active Days: 67	2.47	**19.19**	12.05	0.00	**11.40**	0.89	**12.29**	**2.38**	0.82	**3.20**	2,357.16
Fine Grading 05/15/2014-08/15/2014	2.46	19.16	12.04	0.00	11.40	0.89	12.29	2.38	0.82	3.20	2,349.34
Fine Grading Dust	0.00	0.00	0.00	0.00	11.40	0.00	11.40	2.38	0.00	2.38	0.00
Fine Grading Off Road Diesel	2.41	19.08	10.74	0.00	0.00	0.89	0.89	0.00	0.82	0.82	2,247.32
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	0.05	0.08	1.30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.03
Mass Grading 05/15/2014-12/21/2016	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/18/2014-12/31/2014 Active Days: 98	1.15	7.76	10.38	0.01	0.03	0.41	0.44	0.01	0.37	0.38	1,520.08
Building 08/16/2014-12/21/2016	1.15	7.72	10.37	0.01	0.03	0.41	0.43	0.01	0.37	0.38	1,512.26
Building Off Road Diesel	0.88	6.70	4.39	0.00	0.00	0.37	0.37	0.00	0.34	0.34	893.39
Building Vendor Trips	0.07	0.71	0.73	0.00	0.01	0.03	0.03	0.00	0.02	0.03	207.51
Building Worker Trips	0.20	0.32	5.25	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.37
Mass Grading 05/15/2014-12/21/2016	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2015-12/31/2015 Active Days: 261	1.07	7.01	9.81	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,520.31
Building 08/16/2014-12/21/2016	1.06	6.98	9.80	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,512.50
Building Off Road Diesel	0.83	6.06	4.31	0.00	0.00	0.35	0.35	0.00	0.32	0.32	893.39
Building Vendor Trips	0.06	0.62	0.67	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.53
Building Worker Trips	0.18	0.29	4.82	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.58
Mass Grading 05/15/2014-12/21/2016	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 1/1/2016-8/9/2016 Active Days: 158	0.99	6.33	9.31	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,520.52
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Mass Grading 05/15/2014-12/21/2016	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/10/2016-11/18/2016 Active Days: 73	15.33	6.34	9.49	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,537.61
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2016-12/21/2016 Active Days: 23	**16.83**	14.94	**18.11**	**0.01**	0.04	**0.96**	1.00	0.01	**0.89**	0.90	**2,741.21**
Asphalt 11/21/2016-12/21/2016	1.50	8.60	8.62	0.00	0.01	0.64	0.65	0.00	0.59	0.59	1,203.61
Paving Off-Gas	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.32	8.33	6.64	0.00	0.00	0.63	0.63	0.00	0.58	0.58	979.23
Paving On Road Diesel	0.01	0.16	0.06	0.00	0.00	0.01	0.01	0.00	0.01	0.01	45.66
Paving Worker Trips	0.07	0.12	1.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.72
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2014 - 8/15/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 3.5

Maximum Daily Acreage Disturbed: 0.88

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 22 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2014 - 12/21/2016 - Truck Trips
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 1.94
Off-Road Equipment:

Phase: Paving 11/21/2016 - 12/21/2016 - Default Paving Description
Acres to be Paved: 0.88
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2014 - 12/21/2016 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2016 - 12/21/2016 - 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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 3 Phase 1b.urb924

Project Name: Alternative 3 Construction Phase 1b and 1c

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2014 TOTALS (lbs/day unmitigated)	2.47	19.24	12.07	0.01	11.64	0.89	12.53	2.43	0.82	3.25	2,368.74
2015 TOTALS (lbs/day unmitigated)	1.07	7.05	9.83	0.01	0.03	0.39	0.41	0.01	0.35	0.36	1,531.89
2016 TOTALS (lbs/day unmitigated)	16.84	14.98	18.13	0.01	0.04	0.97	1.01	0.01	0.89	0.90	2,752.79

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2014-8/15/2014 Active Days: 67	2.47	**19.24**	12.07	0.00	**11.64**	0.89	**12.53**	**2.43**	0.82	**3.25**	2,368.74
Fine Grading 05/15/2014-08/15/2014	2.46	19.16	12.04	0.00	11.64	0.89	12.53	2.43	0.82	3.25	2,349.34
Fine Grading Dust	0.00	0.00	0.00	0.00	11.63	0.00	11.63	2.43	0.00	2.43	0.00
Fine Grading Off Road Diesel	2.41	19.08	10.74	0.00	0.00	0.89	0.89	0.00	0.82	0.82	2,247.32
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	0.05	0.08	1.30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.03
Mass Grading 05/15/2014-12/21/2016	0.01	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/18/2014-12/31/2014 Active Days: 98	1.15	7.81	10.40	0.01	0.03	0.41	0.44	0.01	0.38	0.39	1,531.66
Building 08/16/2014-12/21/2016	1.15	7.72	10.37	0.01	0.03	0.41	0.43	0.01	0.37	0.38	1,512.26
Building Off Road Diesel	0.88	6.70	4.39	0.00	0.00	0.37	0.37	0.00	0.34	0.34	893.39
Building Vendor Trips	0.07	0.71	0.73	0.00	0.01	0.03	0.03	0.00	0.02	0.03	207.51
Building Worker Trips	0.20	0.32	5.25	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.37
Mass Grading 05/15/2014-12/21/2016	0.01	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2015-12/31/2015 Active Days: 261	1.07	7.05	9.83	0.01	0.03	0.39	0.41	0.01	0.35	0.36	1,531.89
Building 08/16/2014-12/21/2016	1.06	6.98	9.80	0.01	0.03	0.38	0.41	0.01	0.35	0.36	1,512.50
Building Off Road Diesel	0.83	6.06	4.31	0.00	0.00	0.35	0.35	0.00	0.32	0.32	893.39
Building Vendor Trips	0.06	0.62	0.67	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.53
Building Worker Trips	0.18	0.29	4.82	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.58
Mass Grading 05/15/2014-12/21/2016	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2016-8/9/2016 Active Days: 158	0.99	6.37	9.32	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,532.10
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Mass Grading 05/15/2014-12/21/2016	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2016-11/18/2016 Active Days: 73	15.33	6.38	9.51	0.01	0.03	0.32	0.35	0.01	0.30	0.31	1,549.19
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2016-12/21/2016 Active Days: 23	**16.84**	14.98	**18.13**	**0.01**	0.04	**0.97**	1.01	0.01	**0.89**	0.90	**2,752.79**
Asphalt 11/21/2016-12/21/2016	1.50	8.60	8.62	0.00	0.01	0.64	0.65	0.00	0.59	0.59	1,203.61
Paving Off-Gas	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.32	8.33	6.64	0.00	0.00	0.63	0.63	0.00	0.58	0.58	979.23
Paving On Road Diesel	0.01	0.16	0.06	0.00	0.00	0.01	0.01	0.00	0.01	0.01	45.66
Paving Worker Trips	0.07	0.12	1.92	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.72
Building 08/16/2014-12/21/2016	0.98	6.31	9.30	0.01	0.03	0.32	0.35	0.01	0.29	0.30	1,512.70
Building Off Road Diesel	0.77	5.49	4.26	0.00	0.00	0.29	0.29	0.00	0.27	0.27	893.39
Building Vendor Trips	0.05	0.54	0.62	0.00	0.01	0.02	0.03	0.00	0.02	0.02	207.55
Building Worker Trips	0.16	0.27	4.42	0.00	0.02	0.01	0.03	0.01	0.01	0.02	411.76
Coating 08/10/2016-12/21/2016	14.35	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Architectural Coating	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09
Mass Grading 05/15/2014-12/21/2016	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.39
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2014 - 8/15/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 3.5

Maximum Daily Acreage Disturbed: 0.88

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 24 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2014 - 12/21/2016 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 4.82

Off-Road Equipment:

Phase: Paving 11/21/2016 - 12/21/2016 - Default Paving Description

Acres to be Paved: 0.88

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2014 - 12/21/2016 - Default Building Construction Description

Off-Road Equipment:

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

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

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2016 - 12/21/2016 - Default Architectural Coating Description

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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 Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 3 Phase 1.urb924

Project Name: Alternative 3 Construction Phase 1a

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/16/2011-8/15/2011 Active Days: 66	4.01	40.76	19.30	0.03	**424.34**	1.81	**426.15**	**88.63**	1.67	**90.30**	4,989.95
Fine Grading 05/15/2011-08/15/2011	2.89	23.54	13.60	0.00	424.25	1.17	425.43	88.60	1.08	89.68	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	424.25	0.00	424.25	88.60	0.00	88.60	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85
Mass Grading 05/15/2011-12/21/2013	1.12	17.22	5.70	0.02	0.09	0.64	0.73	0.03	0.58	0.62	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	1.12	17.22	5.70	0.02	0.09	0.64	0.73	0.03	0.58	0.62	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/16/2011-12/30/2011 Active Days: 99	6.09	38.92	52.17	0.05	0.22	1.98	2.20	0.08	1.81	1.89	7,062.80
Building 08/16/2011-12/21/2013	4.97	21.69	46.47	0.03	0.13	1.34	1.47	0.05	1.23	1.27	4,422.01
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.34	4.06	3.67	0.01	0.03	0.15	0.18	0.01	0.14	0.15	822.81
Building Worker Trips	1.24	1.96	31.95	0.02	0.10	0.06	0.15	0.04	0.05	0.08	1,978.00
Mass Grading 05/15/2011-12/21/2013	1.12	17.22	5.70	0.02	0.09	0.64	0.73	0.03	0.58	0.62	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	1.12	17.22	5.70	0.02	0.09	0.64	0.73	0.03	0.58	0.62	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/2/2012-12/31/2012 Active Days: 261	5.62	35.63	48.74	0.05	0.22	1.79	2.01	0.08	1.64	1.71	7,064.10
Building 08/16/2011-12/21/2013	4.59	20.26	43.57	0.03	0.13	1.22	1.35	0.05	1.12	1.16	4,423.31
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95	1,621.20
Building Vendor Trips	0.31	3.63	3.39	0.01	0.03	0.13	0.16	0.01	0.12	0.13	822.95
Building Worker Trips	1.14	1.81	29.66	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,979.17
Mass Grading 05/15/2011-12/21/2013	1.03	15.37	5.17	0.02	0.09	0.56	0.66	0.03	0.52	0.55	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	1.03	15.37	5.17	0.02	0.09	0.56	0.66	0.03	0.52	0.55	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2013-8/9/2013 Active Days: 159	5.15	32.35	45.40	0.05	0.22	1.60	1.82	0.08	1.46	1.54	7,065.41
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Mass Grading 05/15/2011-12/21/2013	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/12/2013-11/20/2013 Active Days: 73	71.60	32.41	46.49	0.05	0.22	1.60	1.82	0.08	1.46	1.54	7,144.44
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Coating 08/10/2013-12/21/2013	66.45	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Architectural Coating	66.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Mass Grading 05/15/2011-12/21/2013	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2013-12/20/2013 Active Days: 22	**74.70**	**48.95**	**59.98**	**0.06**	0.24	**2.94**	3.18	0.08	**2.70**	2.78	**8,983.27**
Asphalt 11/21/2013-12/21/2013	3.09	16.54	13.49	0.00	0.02	1.34	1.36	0.01	1.23	1.24	1,838.83
Paving Off-Gas	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.48	15.36	9.98	0.00	0.00	1.30	1.30	0.00	1.20	1.20	1,418.44
Paving On Road Diesel	0.07	0.98	0.34	0.00	0.01	0.04	0.04	0.00	0.03	0.04	190.96
Paving Worker Trips	0.12	0.19	3.18	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.43
Building 08/16/2011-12/21/2013	4.21	18.79	40.75	0.03	0.13	1.10	1.23	0.05	1.01	1.05	4,424.62
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.29	3.21	3.13	0.01	0.03	0.12	0.15	0.01	0.11	0.12	823.08
Building Worker Trips	1.04	1.67	27.42	0.02	0.10	0.05	0.15	0.04	0.04	0.08	1,980.35
Coating 08/10/2013-12/21/2013	66.45	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Architectural Coating	66.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	79.03
Mass Grading 05/15/2011-12/21/2013	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.94	13.56	4.64	0.02	0.09	0.49	0.59	0.03	0.45	0.48	2,640.79
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 8/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 14.1

Maximum Daily Acreage Disturbed: 3.52

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 3297 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 5/15/2011 - 12/21/2013 - Haul Trucks
Total Acres Disturbed: 0
Maximum Daily Acreage Disturbed: 0
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 655.93
Off-Road Equipment:

Phase: Paving 11/21/2013 - 12/21/2013 - Default Paving Description
Acres to be Paved: 3.52
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2011 - 12/21/2013 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2013 - 12/21/2013 - 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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Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 3 Phase 2b.urb924

Project Name: Alternative 3 Phase 2b

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2019 TOTALS (lbs/day unmitigated)	1.87	12.90	13.60	0.01	33.58	0.56	34.14	7.01	0.52	7.53	2,607.08
2020 TOTALS (lbs/day unmitigated)	19.90	18.45	23.28	0.01	0.05	1.07	1.12	0.02	0.98	1.00	4,150.19

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2019-8/15/2019 Active Days: 67	1.85	12.90	10.43	0.00	**33.58**	0.56	**34.14**	**7.01**	0.52	**7.53**	2,607.08
Fine Grading 05/15/2019-08/15/2019	1.79	12.29	10.19	0.00	33.57	0.54	34.11	7.01	0.50	7.51	2,349.56
Fine Grading Dust	0.00	0.00	0.00	0.00	33.56	0.00	33.56	7.01	0.00	7.01	0.00
Fine Grading Off Road Diesel	1.76	12.24	9.35	0.00	0.00	0.54	0.54	0.00	0.50	0.50	2,247.32
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	0.03	0.05	0.84	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.25
Mass Grading 05/15/2019-12/21/2020	0.05	0.61	0.24	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.05	0.61	0.24	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2019-12/31/2019 Active Days: 98	1.87	10.25	13.60	0.01	0.04	0.50	0.54	0.01	0.46	0.47	2,598.18
Building 08/16/2019-12/21/2020	1.81	9.64	13.36	0.01	0.03	0.48	0.51	0.01	0.44	0.45	2,340.66
Building Off Road Diesel	1.62	8.96	8.86	0.00	0.00	0.45	0.45	0.00	0.41	0.41	1,621.20
Building Vendor Trips	0.05	0.45	0.57	0.00	0.01	0.02	0.03	0.00	0.02	0.02	240.95
Building Worker Trips	0.14	0.23	3.92	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.51
Mass Grading 05/15/2019-12/21/2020	0.05	0.61	0.24	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.05	0.61	0.24	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2020-8/7/2020 Active Days: 158	1.68	9.53	13.03	0.01	0.04	0.44	0.48	0.01	0.40	0.42	2,598.37
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Mass Grading 05/15/2019-12/21/2020	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/10/2020-11/20/2020 Active Days: 75	18.33	9.54	13.18	0.01	0.04	0.44	0.48	0.01	0.40	0.42	2,618.24
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Coating 08/10/2020-12/21/2020	16.65	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Architectural Coating	16.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Mass Grading 05/15/2019-12/21/2020	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/23/2020-12/21/2020 Active Days: 21	**19.90**	**18.45**	**23.28**	**0.01**	0.05	**1.07**	1.12	0.02	**0.98**	1.00	**4,150.19**
Asphalt 11/21/2020-12/21/2020	1.57	8.91	10.10	0.00	0.01	0.63	0.64	0.00	0.58	0.58	1,531.95
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.38	8.70	8.54	0.00	0.00	0.62	0.62	0.00	0.57	0.57	1,272.04
Paving On Road Diesel	0.01	0.12	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	55.34
Paving Worker Trips	0.05	0.09	1.52	0.00	0.01	0.01	0.02	0.00	0.00	0.01	204.57
Building 08/16/2019-12/21/2020	1.63	8.97	12.81	0.01	0.03	0.42	0.45	0.01	0.39	0.40	2,340.86
Building Off Road Diesel	1.46	8.36	8.72	0.00	0.00	0.39	0.39	0.00	0.36	0.36	1,621.20
Building Vendor Trips	0.05	0.40	0.54	0.00	0.01	0.02	0.02	0.00	0.01	0.02	240.96
Building Worker Trips	0.12	0.21	3.55	0.00	0.02	0.01	0.04	0.01	0.01	0.02	478.70
Coating 08/10/2020-12/21/2020	16.65	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Architectural Coating	16.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87
Mass Grading 05/15/2019-12/21/2020	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.05	0.55	0.22	0.00	0.01	0.02	0.03	0.00	0.02	0.02	257.51
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2019 - 8/15/2019 - Default Fine Site Grading Description

Total Acres Disturbed: 4.06

Maximum Daily Acreage Disturbed: 1.02

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 198 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2019 - 12/21/2020 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 63.96

Off-Road Equipment:

Phase: Paving 11/21/2020 - 12/21/2020 - Type Your Description Here

Acres to be Paved: 1.02

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2019 - 12/21/2020 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2020 - 12/21/2020 - Type Your Description Here

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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 3 Phase 2a.urb924

Project Name: Alternative 3 Phase 2a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2017 TOTALS (lbs/day unmitigated)	2.19	16.25	11.37	0.01	53.45	0.73	54.19	11.17	0.67	11.84	2,849.03
2018 TOTALS (lbs/day unmitigated)	15.50	13.90	16.96	0.01	0.05	0.83	0.88	0.02	0.76	0.78	3,177.93

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2017-8/15/2017 Active Days: 67	2.19	16.25	11.37	0.01	53.45	0.73	54.19	11.17	0.67	11.84	2,849.03
Fine Grading 05/15/2017-08/15/2017	2.06	14.75	10.81	0.00	53.43	0.68	54.11	11.16	0.62	11.78	2,349.48
Fine Grading Dust	0.00	0.00	0.00	0.00	53.43	0.00	53.43	11.16	0.00	11.16	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.04	0.06	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.17
Mass Grading 05/15/2017-12/21/2018	0.12	1.51	0.57	0.00	0.02	0.05	0.07	0.01	0.05	0.06	499.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.12	1.51	0.57	0.00	0.02	0.05	0.07	0.01	0.05	0.06	499.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2017-12/29/2017 Active Days: 98	1.01	7.14	9.05	0.01	0.04	0.34	0.38	0.01	0.31	0.32	1,962.37
Building 08/16/2017-12/21/2018	0.89	5.63	8.48	0.01	0.03	0.28	0.31	0.01	0.26	0.27	1,462.82
Building Off Road Diesel	0.71	4.97	4.22	0.00	0.00	0.26	0.26	0.00	0.24	0.24	893.39
Building Vendor Trips	0.04	0.44	0.52	0.00	0.01	0.02	0.02	0.00	0.02	0.02	188.56
Building Worker Trips	0.14	0.23	3.75	0.00	0.02	0.01	0.03	0.01	0.01	0.01	380.88
Mass Grading 05/15/2017-12/21/2018	0.12	1.51	0.57	0.00	0.02	0.05	0.07	0.01	0.05	0.06	499.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.12	1.51	0.57	0.00	0.02	0.05	0.07	0.01	0.05	0.06	499.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 1/1/2018-8/9/2018 Active Days: 159	0.93	6.40	8.59	0.01	0.04	0.29	0.34	0.01	0.27	0.28	1,962.53
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Mass Grading 05/15/2017-12/21/2018	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/10/2018-11/20/2018 Active Days: 73	14.18	6.40	8.73	0.01	0.04	0.29	0.34	0.02	0.27	0.28	1,978.33
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2018-12/21/2018 Active Days: 23	15.50	13.90	16.96	**0.01**	0.05	0.83	0.88	0.02	0.76	0.78	3,177.93
Asphalt 11/21/2018-12/21/2018	1.32	7.50	8.23	0.00	0.01	0.53	0.54	0.00	0.49	0.49	1,199.60
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.16	7.29	6.58	0.00	0.00	0.52	0.52	0.00	0.48	0.48	979.23
Paving On Road Diesel	0.01	0.11	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	41.51
Paving Worker Trips	0.06	0.10	1.61	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.86
Building 08/16/2017-12/21/2018	0.82	5.06	8.07	0.01	0.03	0.25	0.27	0.01	0.23	0.23	1,462.98
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.04	0.39	0.48	0.00	0.01	0.01	0.02	0.00	0.01	0.02	188.57
Building Worker Trips	0.12	0.20	3.43	0.00	0.02	0.01	0.03	0.01	0.01	0.01	381.02
Coating 08/10/2018-12/21/2018	13.25	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Architectural Coating	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.80
Mass Grading 05/15/2017-12/21/2018	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.11	1.34	0.52	0.00	0.02	0.05	0.07	0.01	0.04	0.05	499.55
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2017 - 8/15/2017 - Default Fine Site Grading Description

Total Acres Disturbed: 3.21

Maximum Daily Acreage Disturbed: 0.8

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 385 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2017 - 12/21/2018 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 124.08

Off-Road Equipment:

Phase: Paving 11/21/2018 - 12/21/2018 - Type Your Description Here

Acres to be Paved: 0.8

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2017 - 12/21/2018 - Default Building Construction Description

Off-Road Equipment:

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

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

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2018 - 12/21/2018 - Type Your Description Here

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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

Combined Summer Emissions Reports (Pounds/Day)

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA) \URBEMIS\Construction\Alternative 4 Phase 1.urb924

Project Name: Alternative 4 Phase 1

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2011 TOTALS (lbs/day unmitigated)	2.89	23.54	13.60	0.00	26.00	1.17	27.18	5.43	1.08	6.51	2,349.16

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

Time Slice 5/16/2011-10/14/2011 Active Days: 110	**2.89**	**23.54**	**13.60**	**0.00**	**26.00**	**1.17**	**27.18**	**5.43**	**1.08**	**6.51**	**2,349.16**
Fine Grading 05/15/2011-10/15/2011	2.89	23.54	13.60	0.00	26.00	1.17	27.18	5.43	1.08	6.51	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	26.00	0.00	26.00	5.43	0.00	5.43	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 10/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 5.17

Maximum Daily Acreage Disturbed: 1.3

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 5 Phase 1b.urb924

Project Name: Alternative 5 Phase 1b

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2014 TOTALS (lbs/day unmitigated)	3.69	19.24	33.92	0.02	37.92	0.98	38.81	7.92	0.89	8.74	4,125.87
2015 TOTALS (lbs/day unmitigated)	3.36	15.77	31.70	0.02	0.11	0.90	1.02	0.04	0.82	0.86	4,126.81
2016 TOTALS (lbs/day unmitigated)	63.29	28.10	42.88	0.03	0.13	1.84	1.98	0.05	1.69	1.74	6,027.18

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2014-8/15/2014 Active Days: 67	2.47	19.24	12.07	0.00	**37.92**	0.89	**38.81**	**7.92**	0.82	**8.74**	2,367.46
Fine Grading 05/15/2014-08/15/2014	2.46	19.16	12.04	0.00	37.92	0.89	38.81	7.92	0.82	8.74	2,349.34
Fine Grading Dust	0.00	0.00	0.00	0.00	37.91	0.00	37.91	7.92	0.00	7.92	0.00
Fine Grading Off Road Diesel	2.41	19.08	10.74	0.00	0.00	0.89	0.89	0.00	0.82	0.82	2,247.32
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	0.05	0.08	1.30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.03
Mass Grading 05/15/2014-12/21/2016	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/18/2014-12/31/2014 Active Days: 98	3.69	17.18	33.92	0.02	0.11	0.98	1.09	0.04	0.89	0.93	4,125.87
Building 08/16/2014-12/21/2016	3.69	17.10	33.89	0.02	0.11	0.97	1.09	0.04	0.89	0.93	4,107.75
Building Off Road Diesel	2.63	12.97	9.89	0.00	0.00	0.82	0.82	0.00	0.76	0.76	1,621.20
Building Vendor Trips	0.26	2.85	2.92	0.01	0.03	0.11	0.14	0.01	0.10	0.11	833.74
Building Worker Trips	0.79	1.28	21.08	0.02	0.08	0.04	0.13	0.03	0.04	0.06	1,652.82
Mass Grading 05/15/2014-12/21/2016	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2015-12/31/2015 Active Days: 261	3.36	15.77	31.70	0.02	0.11	0.90	1.02	0.04	0.82	0.86	4,126.81
Building 08/16/2014-12/21/2016	3.36	15.70	31.67	0.02	0.11	0.90	1.01	0.04	0.82	0.86	4,108.70
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.24	2.49	2.69	0.01	0.03	0.09	0.12	0.01	0.08	0.10	833.84
Building Worker Trips	0.72	1.17	19.37	0.02	0.08	0.04	0.13	0.03	0.04	0.06	1,653.66
Mass Grading 05/15/2014-12/21/2016	0.01	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2016-8/9/2016 Active Days: 158	3.06	14.52	29.68	0.02	0.11	0.80	0.91	0.04	0.73	0.77	4,127.63
Building 08/16/2014-12/21/2016	3.05	14.45	29.66	0.02	0.11	0.80	0.91	0.04	0.73	0.77	4,109.52
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.22	2.19	2.48	0.01	0.03	0.08	0.11	0.01	0.07	0.09	833.91
Building Worker Trips	0.65	1.07	17.78	0.02	0.08	0.04	0.13	0.03	0.04	0.06	1,654.41
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2016-11/18/2016 Active Days: 73	60.70	14.56	30.42	0.02	0.12	0.80	0.92	0.04	0.73	0.78	4,196.30
Building 08/16/2014-12/21/2016	3.05	14.45	29.66	0.02	0.11	0.80	0.91	0.04	0.73	0.77	4,109.52
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.22	2.19	2.48	0.01	0.03	0.08	0.11	0.01	0.07	0.09	833.91
Building Worker Trips	0.65	1.07	17.78	0.02	0.08	0.04	0.13	0.03	0.04	0.06	1,654.41
Coating 08/10/2016-12/21/2016	57.64	0.04	0.74	0.00	0.00	0.00	0.01	0.00	0.00	0.00	68.66
Architectural Coating	57.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.04	0.74	0.00	0.00	0.00	0.01	0.00	0.00	0.00	68.66
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2016-12/21/2016 Active Days: 23	**63.29**	**28.10**	**42.88**	**0.03**	0.13	**1.84**	1.98	0.05	**1.69**	1.74	**6,027.18**
Asphalt 11/21/2016-12/21/2016	2.59	13.54	12.46	0.00	0.02	1.04	1.06	0.01	0.95	0.96	1,830.88
Paving Off-Gas	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.05	12.77	9.76	0.00	0.00	1.01	1.01	0.00	0.93	0.93	1,418.44
Paving On Road Diesel	0.05	0.62	0.23	0.00	0.01	0.02	0.03	0.00	0.02	0.02	182.66
Paving Worker Trips	0.09	0.15	2.47	0.00	0.01	0.01	0.02	0.00	0.00	0.01	229.78
Building 08/16/2014-12/21/2016	3.05	14.45	29.66	0.02	0.11	0.80	0.91	0.04	0.73	0.77	4,109.52
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.22	2.19	2.48	0.01	0.03	0.08	0.11	0.01	0.07	0.09	833.91
Building Worker Trips	0.65	1.07	17.78	0.02	0.08	0.04	0.13	0.03	0.04	0.06	1,654.41
Coating 08/10/2016-12/21/2016	57.64	0.04	0.74	0.00	0.00	0.00	0.01	0.00	0.00	0.00	68.66
Architectural Coating	57.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.04	0.74	0.00	0.00	0.00	0.01	0.00	0.00	0.00	68.66
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2014 - 8/15/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 14.06

Maximum Daily Acreage Disturbed: 3.52

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 23 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2014 - 12/21/2016 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 4.5

Off-Road Equipment:

Phase: Paving 11/21/2016 - 12/21/2016 - Type Your Description Here

Acres to be Paved: 3.52

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2014 - 12/21/2016 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2016 - 12/21/2016 - Type Your Description Here

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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 5 Phase 1a.urb924

Project Name: Alternative 5 Phase 1a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2011 TOTALS (lbs/day unmitigated)	5.48	37.54	42.25	0.04	349.13	1.80	350.82	72.92	1.65	74.48	5,838.06
2012 TOTALS (lbs/day unmitigated)	5.06	31.19	39.57	0.04	0.17	1.63	1.80	0.06	1.49	1.55	5,839.04
2013 TOTALS (lbs/day unmitigated)	57.65	42.97	49.76	0.04	0.19	2.63	2.82	0.06	2.42	2.48	7,518.02

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/16/2011-8/15/2011 Active Days: 66	3.80	37.54	18.24	0.02	**349.13**	1.69	**350.82**	**72.92**	1.56	**74.48**	4,496.59
Fine Grading 05/15/2011-08/15/2011	2.89	23.54	13.60	0.00	349.05	1.17	350.23	72.90	1.08	73.98	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	349.05	0.00	349.05	72.90	0.00	72.90	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85
Mass Grading 05/15/2011-12/21/2013	0.91	14.01	4.63	0.02	0.08	0.52	0.59	0.02	0.48	0.50	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.91	14.01	4.63	0.02	0.08	0.52	0.59	0.02	0.48	0.50	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2011-12/30/2011 Active Days: 99	5.48	33.97	42.25	0.04	0.17	1.80	1.97	0.06	1.65	1.71	5,838.06
Building 08/16/2011-12/21/2013	4.57	19.96	37.62	0.02	0.09	1.28	1.38	0.03	1.17	1.21	3,690.63
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.24	2.80	2.56	0.01	0.02	0.10	0.12	0.01	0.09	0.10	570.20
Building Worker Trips	0.94	1.49	24.22	0.01	0.07	0.04	0.12	0.03	0.03	0.06	1,499.24
Mass Grading 05/15/2011-12/21/2013	0.91	14.01	4.63	0.02	0.08	0.52	0.59	0.02	0.48	0.50	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.91	14.01	4.63	0.02	0.08	0.52	0.59	0.02	0.48	0.50	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/2/2012-12/31/2012 Active Days: 261	5.06	31.19	39.57	0.04	0.17	1.63	1.80	0.06	1.49	1.55	5,839.04
Building 08/16/2011-12/21/2013	4.22	18.70	35.36	0.02	0.09	1.17	1.26	0.03	1.07	1.10	3,691.61
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95	1,621.20
Building Vendor Trips	0.22	2.51	2.36	0.01	0.02	0.09	0.11	0.01	0.08	0.09	570.29
Building Worker Trips	0.87	1.37	22.48	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,500.12
Mass Grading 05/15/2011-12/21/2013	0.84	12.50	4.20	0.02	0.08	0.46	0.53	0.02	0.42	0.45	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.84	12.50	4.20	0.02	0.08	0.46	0.53	0.02	0.42	0.45	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2013-8/9/2013 Active Days: 159	4.63	28.42	36.94	0.04	0.17	1.45	1.62	0.06	1.33	1.39	5,840.03
Building 08/16/2011-12/21/2013	3.87	17.39	33.17	0.02	0.09	1.05	1.15	0.03	0.96	1.00	3,692.60
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.20	2.22	2.18	0.01	0.02	0.08	0.10	0.01	0.07	0.08	570.39
Building Worker Trips	0.79	1.27	20.78	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,501.02
Mass Grading 05/15/2011-12/21/2013	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/12/2013-11/20/2013 Active Days: 73	54.99	28.47	37.77	0.04	0.17	1.46	1.63	0.06	1.33	1.39	5,899.91
Building 08/16/2011-12/21/2013	3.87	17.39	33.17	0.02	0.09	1.05	1.15	0.03	0.96	1.00	3,692.60
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.20	2.22	2.18	0.01	0.02	0.08	0.10	0.01	0.07	0.08	570.39
Building Worker Trips	0.79	1.27	20.78	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,501.02
Coating 08/10/2013-12/21/2013	50.35	0.05	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.88
Architectural Coating	50.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.05	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.88
Mass Grading 05/15/2011-12/21/2013	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2013-12/20/2013 Active Days: 22	**57.65**	**42.97**	**49.76**	**0.04**	0.19	**2.63**	2.82	0.06	**2.42**	2.48	**7,518.02**
Asphalt 11/21/2013-12/21/2013	2.66	14.50	11.99	0.00	0.01	1.18	1.19	0.01	1.08	1.09	1,618.11
Paving Off-Gas	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.19	13.60	8.91	0.00	0.00	1.15	1.15	0.00	1.05	1.05	1,272.04
Paving On Road Diesel	0.05	0.73	0.25	0.00	0.00	0.03	0.03	0.00	0.02	0.03	142.14
Paving Worker Trips	0.11	0.17	2.82	0.00	0.01	0.01	0.02	0.00	0.00	0.01	203.93
Building 08/16/2011-12/21/2013	3.87	17.39	33.17	0.02	0.09	1.05	1.15	0.03	0.96	1.00	3,692.60
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.20	2.22	2.18	0.01	0.02	0.08	0.10	0.01	0.07	0.08	570.39
Building Worker Trips	0.79	1.27	20.78	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,501.02
Coating 08/10/2013-12/21/2013	50.35	0.05	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.88
Architectural Coating	50.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.05	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.88
Mass Grading 05/15/2011-12/21/2013	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.77	11.02	3.78	0.02	0.08	0.40	0.48	0.02	0.37	0.39	2,147.43
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 8/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 10.48

Maximum Daily Acreage Disturbed: 2.62

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 2736 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2011 - 12/21/2013 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 533.39

Off-Road Equipment:

Phase: Paving 11/21/2013 - 12/21/2013 - Type Your Description Here

Acres to be Paved: 2.62

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2011 - 12/21/2013 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2013 - 12/21/2013 - Type Your Description Here

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 Summer Construction Unmitigated Emissions (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 6\Alternative 6 Phase 2b.urb924

Project Name: Alternative 6 Phase 2b

Project Location: Mountain Counties Air Basin

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)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	CO2
Time Slice 5/15/2019-8/15/2019 Active Days: 67	1.82	**12.60**	10.31	0.00	**22.07**	0.55	**22.63**	**4.61**	0.51	**5.12**	2,482.06
Fine Grading 05/15/2019-08/15/2019	1.79	12.29	10.19	0.00	22.07	0.54	22.61	4.61	0.50	5.11	2,349.56
Fine Grading Dust	0.00	0.00	0.00	0.00	22.06	0.00	22.06	4.61	0.00	4.61	0.00
Fine Grading Off Road Diesel	1.76	12.24	9.35	0.00	0.00	0.54	0.54	0.00	0.50	0.50	2,247.32
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	0.03	0.05	0.84	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.25
Mass Grading 05/15/2019-12/12/2020	0.03	0.32	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	132.49
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.32	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	132.49
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/16/2019-12/31/2019 Active Days: 98	0.79	4.85	7.72	0.01	0.03	0.22	0.25	0.01	0.20	0.21	1,579.32
Building 08/16/2019-12/21/2020	0.76	4.54	7.59	0.01	0.02	0.21	0.24	0.01	0.19	0.20	1,446.82
Building Off Road Diesel	0.62	4.01	4.13	0.00	0.00	0.19	0.19	0.00	0.17	0.17	893.39
Building Vendor Trips	0.04	0.34	0.44	0.00	0.01	0.01	0.02	0.00	0.01	0.01	185.35
Building Worker Trips	0.11	0.18	3.02	0.00	0.02	0.01	0.03	0.01	0.01	0.01	368.09
Mass Grading 05/15/2019-12/12/2020	0.03	0.32	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	132.49
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.32	0.13	0.00	0.00	0.01	0.02	0.00	0.01	0.01	132.49
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2020-8/7/2020 Active Days: 158	0.73	4.39	7.36	0.01	0.03	0.20	0.22	0.01	0.18	0.19	1,579.47
Building 08/16/2019-12/21/2020	0.70	4.10	7.25	0.01	0.02	0.19	0.21	0.01	0.17	0.18	1,446.97
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.03	0.31	0.41	0.00	0.01	0.01	0.02	0.00	0.01	0.01	185.36
Building Worker Trips	0.09	0.16	2.73	0.00	0.02	0.01	0.03	0.01	0.01	0.01	368.23
Mass Grading 05/15/2019-12/12/2020	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2020-11/20/2020 Active Days: 75	13.53	4.39	7.48	0.01	0.03	0.20	0.23	0.01	0.18	0.19	1,594.75
Building 08/16/2019-12/21/2020	0.70	4.10	7.25	0.01	0.02	0.19	0.21	0.01	0.17	0.18	1,446.97
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.03	0.31	0.41	0.00	0.01	0.01	0.02	0.00	0.01	0.01	185.36
Building Worker Trips	0.09	0.16	2.73	0.00	0.02	0.01	0.03	0.01	0.01	0.01	368.23
Coating 08/10/2020-12/21/2020	12.81	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28
Architectural Coating	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28
Mass Grading 05/15/2019-12/12/2020	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/23/2020-12/11/2020 Active Days: 15	**14.69**	10.96	**15.36**	**0.01**	0.04	**0.64**	0.68	0.01	**0.58**	0.60	**2,795.29**
Asphalt 11/21/2020-12/21/2020	1.15	6.57	7.88	0.00	0.01	0.44	0.45	0.00	0.41	0.41	1,200.54
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.01	6.40	6.52	0.00	0.00	0.43	0.43	0.00	0.40	0.40	979.23
Paving On Road Diesel	0.01	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.32
Paving Worker Trips	0.05	0.08	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.00
Building 08/16/2019-12/21/2020	0.70	4.10	7.25	0.01	0.02	0.19	0.21	0.01	0.17	0.18	1,446.97
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.03	0.31	0.41	0.00	0.01	0.01	0.02	0.00	0.01	0.01	185.36
Building Worker Trips	0.09	0.16	2.73	0.00	0.02	0.01	0.03	0.01	0.01	0.01	368.23
Coating 08/10/2020-12/21/2020	12.81	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28
Architectural Coating	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28
Mass Grading 05/15/2019-12/12/2020	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.03	0.28	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	132.49
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 12/14/2020-12/21/2020 Active Days: 6	14.66	10.68	15.24	0.01	0.04	0.63	0.66	0.01	0.57	0.59	2,662.80
Asphalt 11/21/2020-12/21/2020	1.15	6.57	7.88	0.00	0.01	0.44	0.45	0.00	0.41	0.41	1,200.54
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.01	6.40	6.52	0.00	0.00	0.43	0.43	0.00	0.40	0.40	979.23
Paving On Road Diesel	0.01	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.32
Paving Worker Trips	0.05	0.08	1.33	0.00	0.01	0.00	0.01	0.00	0.00	0.01	179.00
Building 08/16/2019-12/21/2020	0.70	4.10	7.25	0.01	0.02	0.19	0.21	0.01	0.17	0.18	1,446.97
Building Off Road Diesel	0.57	3.63	4.10	0.00	0.00	0.16	0.16	0.00	0.15	0.15	893.39
Building Vendor Trips	0.03	0.31	0.41	0.00	0.01	0.01	0.02	0.00	0.01	0.01	185.36
Building Worker Trips	0.09	0.16	2.73	0.00	0.02	0.01	0.03	0.01	0.01	0.01	368.23
Coating 08/10/2020-12/21/2020	12.81	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28
Architectural Coating	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.28

Phase Assumptions

Phase: Fine Grading 5/15/2019 - 8/15/2019 - Default Fine Site Grading Description

Total Acres Disturbed: 3.67

Maximum Daily Acreage Disturbed: 0.92

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 109 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2019 - 12/12/2020 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day
On Road Truck Travel (VMT): 32.91
Off-Road Equipment:

Phase: Paving 11/21/2020 - 12/21/2020 - Type Your Description Here
Acres to be Paved: 0.78
Off-Road Equipment:
4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Phase: Building Construction 8/16/2019 - 12/21/2020 - Default Building Construction Description
Off-Road Equipment:
1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2020 - 12/21/2020 - Type Your Description Here
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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 6\Alternative 6 Phase 2a.urb924

Project Name: Alternative 6 Phase 2a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2017 TOTALS (lbs/day unmitigated)	2.06	14.75	10.81	0.00	3.20	0.68	3.88	0.67	0.62	1.29	2,349.48
2018 TOTALS (lbs/day unmitigated)	2.32	11.87	12.48	0.00	0.01	0.75	0.76	0.00	0.69	0.69	2,069.36

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2017-8/15/2017 Active Days: 67	2.06	**14.75**	10.81	0.00	**3.20**	0.68	**3.88**	**0.67**	0.62	**1.29**	**2,349.48**
Fine Grading 05/15/2017-08/15/2017	2.06	14.75	10.81	0.00	3.20	0.68	3.88	0.67	0.62	1.29	2,349.48
Fine Grading Dust	0.00	0.00	0.00	0.00	3.20	0.00	3.20	0.67	0.00	0.67	0.00
Fine Grading Off Road Diesel	2.03	14.69	9.80	0.00	0.00	0.68	0.68	0.00	0.62	0.62	2,247.32
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	0.04	0.06	1.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.17
Time Slice 8/16/2017-12/29/2017 Active Days: 98	0.72	4.98	4.35	0.00	0.00	0.26	0.26	0.00	0.24	0.24	909.70
Building 08/16/2017-12/21/2018	0.72	4.98	4.35	0.00	0.00	0.26	0.26	0.00	0.24	0.24	909.70
Building Off Road Diesel	0.71	4.97	4.22	0.00	0.00	0.26	0.26	0.00	0.24	0.24	893.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23
Building Worker Trips	0.00	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.08
Time Slice 1/1/2018-8/9/2018 Active Days: 159	0.66	4.48	4.29	0.00	0.00	0.22	0.22	0.00	0.20	0.20	909.70
Building 08/16/2017-12/21/2018	0.66	4.48	4.29	0.00	0.00	0.22	0.22	0.00	0.20	0.20	909.70
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23
Building Worker Trips	0.00	0.01	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.08

Time Slice 8/10/2018-11/20/2018 Active Days: 73	1.10	4.48	4.29	0.00	0.00	0.22	0.22	0.00	0.20	0.20	910.23
Building 08/16/2017-12/21/2018	0.66	4.48	4.29	0.00	0.00	0.22	0.22	0.00	0.20	0.20	909.70
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23
Building Worker Trips	0.00	0.01	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.08
Coating 08/10/2018-12/21/2018	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
Architectural Coating	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
Time Slice 11/21/2018-12/21/2018 Active Days: 23	**2.32**	11.87	**12.48**	**0.00**	0.01	**0.75**	0.76	0.00	**0.69**	0.69	2,069.36
Asphalt 11/21/2018-12/21/2018	1.22	7.39	8.19	0.00	0.01	0.53	0.54	0.00	0.49	0.49	1,159.12
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.16	7.29	6.58	0.00	0.00	0.52	0.52	0.00	0.48	0.48	979.23
Paving On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04
Paving Worker Trips	0.06	0.10	1.61	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.86
Building 08/16/2017-12/21/2018	0.66	4.48	4.29	0.00	0.00	0.22	0.22	0.00	0.20	0.20	909.70
Building Off Road Diesel	0.65	4.47	4.16	0.00	0.00	0.22	0.22	0.00	0.20	0.20	893.39
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23
Building Worker Trips	0.00	0.01	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.08
Coating 08/10/2018-12/21/2018	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
Architectural Coating	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53

Phase Assumptions

Phase: Fine Grading 5/15/2017 - 8/15/2017 - Default Fine Site Grading Description

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Total Acres Disturbed: 0.64

Maximum Daily Acreage Disturbed: 0.16

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Paving 11/21/2018 - 12/21/2018 - Type Your Description Here

Acres to be Paved: 0.02

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2017 - 12/21/2018 - Type Your Description Here

Off-Road Equipment:

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

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

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Architectural Coating 8/10/2018 - 12/21/2018 - Type Your Description Here

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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 6\Alternative 6 Phase 1b.urb924

Project Name: Alternative 6 Phase 1b

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2014 TOTALS (lbs/day unmitigated)	3.32	19.23	25.38	0.02	25.32	0.92	26.21	5.29	0.85	6.11	3,240.54
2015 TOTALS (lbs/day unmitigated)	3.02	14.46	23.86	0.02	0.07	0.85	0.93	0.03	0.78	0.81	3,241.15
2016 TOTALS (lbs/day unmitigated)	42.07	25.20	34.02	0.02	0.09	1.66	1.75	0.03	1.53	1.56	4,879.48

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/15/2014-8/15/2014 Active Days: 67	2.47	19.23	12.06	0.00	**25.32**	0.89	**26.21**	**5.29**	0.82	**6.11**	2,366.24
Fine Grading 05/15/2014-08/15/2014	2.46	19.16	12.04	0.00	25.32	0.89	26.21	5.29	0.82	6.11	2,349.34
Fine Grading Dust	0.00	0.00	0.00	0.00	25.31	0.00	25.31	5.29	0.00	5.29	0.00
Fine Grading Off Road Diesel	2.41	19.08	10.74	0.00	0.00	0.89	0.89	0.00	0.82	0.82	2,247.32
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	0.05	0.08	1.30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	102.03
Mass Grading 05/15/2014-12/21/2016	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/18/2014-12/31/2014 Active Days: 98	3.32	15.71	25.38	0.02	0.07	0.92	1.00	0.03	0.85	0.87	3,240.54
Building 08/16/2014-12/21/2016	3.31	15.63	25.36	0.02	0.07	0.92	0.99	0.03	0.84	0.87	3,223.64
Building Off Road Diesel	2.63	12.97	9.89	0.00	0.00	0.82	0.82	0.00	0.76	0.76	1,621.20
Building Vendor Trips	0.17	1.83	1.88	0.00	0.02	0.07	0.09	0.01	0.06	0.07	537.30
Building Worker Trips	0.51	0.82	13.58	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,065.15
Mass Grading 05/15/2014-12/21/2016	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/1/2015-12/31/2015 Active Days: 261	3.02	14.46	23.86	0.02	0.07	0.85	0.93	0.03	0.78	0.81	3,241.15
Building 08/16/2014-12/21/2016	3.02	14.40	23.83	0.02	0.07	0.85	0.92	0.03	0.78	0.81	3,224.25
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.15	1.61	1.73	0.00	0.02	0.06	0.08	0.01	0.05	0.06	537.36
Building Worker Trips	0.46	0.76	12.48	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,065.69
Mass Grading 05/15/2014-12/21/2016	0.00	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2016-8/9/2016 Active Days: 158	2.75	13.35	22.48	0.02	0.07	0.76	0.83	0.03	0.69	0.72	3,241.67
Building 08/16/2014-12/21/2016	2.74	13.29	22.45	0.02	0.07	0.76	0.83	0.03	0.69	0.72	3,224.78
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.14	1.41	1.60	0.00	0.02	0.05	0.07	0.01	0.05	0.05	537.41
Building Worker Trips	0.42	0.69	11.46	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,066.18
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/10/2016-11/18/2016 Active Days: 73	39.89	13.38	22.95	0.02	0.07	0.76	0.83	0.03	0.69	0.72	3,285.92
Building 08/16/2014-12/21/2016	2.74	13.29	22.45	0.02	0.07	0.76	0.83	0.03	0.69	0.72	3,224.78
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.14	1.41	1.60	0.00	0.02	0.05	0.07	0.01	0.05	0.05	537.41
Building Worker Trips	0.42	0.69	11.46	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,066.18
Coating 08/10/2016-12/21/2016	37.15	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.25
Architectural Coating	37.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.25
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 11/21/2016-12/21/2016 Active Days: 23	**42.07**	**25.20**	**34.02**	**0.02**	0.09	**1.66**	1.75	0.03	**1.53**	1.56	**4,879.48**
Asphalt 11/21/2016-12/21/2016	2.17	11.82	11.06	0.00	0.01	0.90	0.92	0.00	0.83	0.84	1,593.56
Paving Off-Gas	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.80	11.29	8.72	0.00	0.00	0.88	0.88	0.00	0.81	0.81	1,272.04
Paving On Road Diesel	0.03	0.40	0.15	0.00	0.00	0.01	0.02	0.00	0.01	0.01	117.28
Paving Worker Trips	0.08	0.13	2.19	0.00	0.01	0.01	0.02	0.00	0.00	0.01	204.25
Building 08/16/2014-12/21/2016	2.74	13.29	22.45	0.02	0.07	0.76	0.83	0.03	0.69	0.72	3,224.78
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.14	1.41	1.60	0.00	0.02	0.05	0.07	0.01	0.05	0.05	537.41
Building Worker Trips	0.42	0.69	11.46	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,066.18
Coating 08/10/2016-12/21/2016	37.15	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.25
Architectural Coating	37.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.25
Mass Grading 05/15/2014-12/21/2016	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.89
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2014 - 8/15/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 9.06

Maximum Daily Acreage Disturbed: 2.26

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 23 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2014 - 12/21/2016 - Truck Trips

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 4.2

Off-Road Equipment:

Phase: Paving 11/21/2016 - 12/21/2016 - Type Your Description Here

Acres to be Paved: 2.26

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2014 - 12/21/2016 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2016 - 12/21/2016 - Type Your Description Here

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

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Construction\Alternative 6\Alternative 6 Phase 1a.urb924

Project Name: Alternative 6 Phase 1a

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2011 TOTALS (lbs/day unmitigated)	5.37	36.59	40.81	0.04	347.92	1.76	349.58	72.67	1.61	74.19	5,609.98
2012 TOTALS (lbs/day unmitigated)	4.96	30.21	38.23	0.04	0.16	1.59	1.75	0.06	1.46	1.52	5,610.92
2013 TOTALS (lbs/day unmitigated)	55.31	42.06	48.49	0.04	0.18	2.60	2.78	0.06	2.39	2.45	7,280.69

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2

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Time Slice 5/16/2011-8/15/2011 Active Days: 66	3.74	36.59	17.92	0.02	**347.92**	1.66	**349.58**	**72.67**	1.52	**74.19**	4,349.84
Fine Grading 05/15/2011-08/15/2011	2.89	23.54	13.60	0.00	347.85	1.17	349.03	72.65	1.08	73.73	2,349.16
Fine Grading Dust	0.00	0.00	0.00	0.00	347.85	0.00	347.85	72.64	0.00	72.64	0.00
Fine Grading Off Road Diesel	2.83	23.44	11.96	0.00	0.00	1.17	1.17	0.00	1.08	1.08	2,247.32
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	0.06	0.10	1.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.85
Mass Grading 05/15/2011-12/21/2013	0.85	13.05	4.32	0.02	0.07	0.48	0.55	0.02	0.44	0.47	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.85	13.05	4.32	0.02	0.07	0.48	0.55	0.02	0.44	0.47	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 8/16/2011-12/30/2011 Active Days: 99	5.37	32.87	40.81	0.04	0.16	1.76	1.92	0.06	1.61	1.67	5,609.98
Building 08/16/2011-12/21/2013	4.52	19.82	36.49	0.02	0.09	1.28	1.37	0.03	1.17	1.20	3,609.31
Building Off Road Diesel	3.39	15.67	10.85	0.00	0.00	1.14	1.14	0.00	1.05	1.05	1,621.20
Building Vendor Trips	0.23	2.73	2.48	0.01	0.02	0.10	0.12	0.01	0.09	0.10	554.06
Building Worker Trips	0.90	1.42	23.16	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,434.05
Mass Grading 05/15/2011-12/21/2013	0.85	13.05	4.32	0.02	0.07	0.48	0.55	0.02	0.44	0.47	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.85	13.05	4.32	0.02	0.07	0.48	0.55	0.02	0.44	0.47	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 1/2/2012-12/31/2012 Active Days: 261	4.96	30.21	38.23	0.04	0.16	1.59	1.75	0.06	1.46	1.52	5,610.92
Building 08/16/2011-12/21/2013	4.17	18.57	34.32	0.02	0.09	1.17	1.26	0.03	1.07	1.10	3,610.24
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95	1,621.20
Building Vendor Trips	0.21	2.44	2.29	0.01	0.02	0.09	0.11	0.01	0.08	0.09	554.15
Building Worker Trips	0.83	1.31	21.51	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,434.90
Mass Grading 05/15/2011-12/21/2013	0.78	11.64	3.92	0.02	0.07	0.43	0.50	0.02	0.39	0.42	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.78	11.64	3.92	0.02	0.07	0.43	0.50	0.02	0.39	0.42	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Slice 1/1/2013-8/9/2013 Active Days: 159	4.54	27.55	35.72	0.04	0.16	1.42	1.58	0.06	1.30	1.36	5,611.87
Building 08/16/2011-12/21/2013	3.83	17.28	32.20	0.02	0.09	1.05	1.14	0.03	0.96	0.99	3,611.19
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.19	2.16	2.11	0.01	0.02	0.08	0.10	0.01	0.07	0.08	554.24
Building Worker Trips	0.76	1.21	19.88	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,435.76
Mass Grading 05/15/2011-12/21/2013	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Time Slice 8/12/2013-11/20/2013 Active Days: 73	52.66	27.59	36.51	0.04	0.16	1.42	1.59	0.06	1.31	1.36	5,669.10
Building 08/16/2011-12/21/2013	3.83	17.28	32.20	0.02	0.09	1.05	1.14	0.03	0.96	0.99	3,611.19
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.19	2.16	2.11	0.01	0.02	0.08	0.10	0.01	0.07	0.08	554.24
Building Worker Trips	0.76	1.21	19.88	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,435.76
Coating 08/10/2013-12/21/2013	48.12	0.05	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.23
Architectural Coating	48.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.05	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.23
Mass Grading 05/15/2011-12/21/2013	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Time Slice 11/21/2013-12/20/2013 Active Days: 22	**55.31**	**42.06**	**48.49**	**0.04**	0.18	**2.60**	2.78	0.06	**2.39**	2.45	**7,280.69**
Asphalt 11/21/2013-12/21/2013	2.65	14.47	11.98	0.00	0.01	1.18	1.19	0.01	1.08	1.09	1,611.60
Paving Off-Gas	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.19	13.60	8.91	0.00	0.00	1.15	1.15	0.00	1.05	1.05	1,272.04
Paving On Road Diesel	0.05	0.70	0.24	0.00	0.00	0.03	0.03	0.00	0.02	0.02	135.63
Paving Worker Trips	0.11	0.17	2.82	0.00	0.01	0.01	0.02	0.00	0.00	0.01	203.93
Building 08/16/2011-12/21/2013	3.83	17.28	32.20	0.02	0.09	1.05	1.14	0.03	0.96	0.99	3,611.19
Building Off Road Diesel	2.88	13.91	10.20	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,621.20
Building Vendor Trips	0.19	2.16	2.11	0.01	0.02	0.08	0.10	0.01	0.07	0.08	554.24
Building Worker Trips	0.76	1.21	19.88	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,435.76
Coating 08/10/2013-12/21/2013	48.12	0.05	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.23
Architectural Coating	48.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.05	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.23
Mass Grading 05/15/2011-12/21/2013	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading On Road Diesel	0.71	10.27	3.52	0.02	0.07	0.37	0.44	0.02	0.34	0.37	2,000.68
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

Phase: Fine Grading 5/15/2011 - 8/15/2011 - Default Fine Site Grading Description

Total Acres Disturbed: 10.02

Maximum Daily Acreage Disturbed: 2.5

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 2736 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

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

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

Phase: Mass Grading 5/15/2011 - 12/21/2013 - Trucking

Total Acres Disturbed: 0

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 496.94

Off-Road Equipment:

Phase: Paving 11/21/2013 - 12/21/2013 - Type Your Description Here

Acres to be Paved: 2.5

Off-Road Equipment:

4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day

1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day

1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

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

Phase: Building Construction 8/16/2011 - 12/21/2013 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

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

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

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

Phase: Architectural Coating 8/10/2013 - 12/21/2013 - Type Your Description Here

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

Air Quality Transportation Outputs (2021)

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Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Operational\Existing and Alternative 2 Winter\Existing Opertional Emissions.urb924

Project Name: Existing Operations

Project Location: Mountain Counties Air Basin

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
Moutain Resort	13.67	17.15	130.49	0.12	23.07	4.39	11,849.22
TOTALS (lbs/day, unmitigated)	13.67	17.15	130.49	0.12	23.07	4.39	11,849.22

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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
Moutain Resort		100.90	1000 sq ft	25.13	2,535.62	13,438.77
					2,535.62	13,438.77

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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)	4.0	4.0	4.0	4.0	5.0	5.3
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)

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Moutain Resort				0.0	0.0	100.0

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work rural trip length changed from 16.8 miles to 4 miles

Home-based shop rural trip length changed from 7.1 miles to 4 miles

Home-based other rural trip length changed from 7.9 miles to 4 miles

Commercial-based commute rural trip length changed from 14.7 miles to 4 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 5 miles

Commercial-based customer rural trip length changed from 6.6 miles to 5.3 miles

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Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Operational\Alternative 1 and 3 Summer Operations 2014.urb924

Project Name: Alternative 1 Summer Operations 2014

Project Location: Mountain Counties Air Basin

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
Apartments low rise	0.31	0.18	1.97	0.00	0.35	0.07	211.59
Condo/townhouse general	3.68	2.04	21.86	0.02	3.87	0.74	2,344.17
Hotel	2.13	1.56	15.14	0.02	3.24	0.62	1,899.93
Strip mall	2.43	2.29	22.26	0.03	4.77	0.91	2,794.21
Hotel Peak	1.12	0.49	4.71	0.01	1.01	0.19	591.58
Townhouse Peak	0.41	0.18	1.72	0.00	0.37	0.07	215.83
Golf Course	0.27	0.16	1.57	0.00	0.34	0.06	197.64
Timeshare	0.35	0.27	2.59	0.00	0.56	0.11	325.41
TOTALS (lbs/day, unmitigated)	10.70	7.17	71.82	0.08	14.51	2.77	8,580.36

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

11/17/2009 8:44:01 AM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	0.81	3.55	dwelling units	13.00	46.15	203.06
Condo/townhouse general	10.38	3.08	dwelling units	166.00	511.28	2,249.63
Hotel		4.27	rooms	67.00	286.09	1,888.19
Strip mall		16.83	1000 sq ft	25.00	420.75	2,776.95
Hotel Peak		1.31	unknown	68.00	89.08	587.93
Townhouse Peak		1.30	unknown	25.00	32.50	214.50
Golf Course		2.48	unknown	12.00	29.76	196.42
Timeshare		4.90	unknown	10.00	49.00	323.40
					1,464.61	8,440.08

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Motorcycle	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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)	4.4	4.4	4.4	6.0	6.0	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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0
Townhouse Peak				0.0	0.0	100.0
Golf Course				0.0	0.0	100.0
Timeshare				0.0	0.0	100.0

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work rural trip length changed from 16.8 miles to 4.4 miles

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Operational Changes to Defaults

Home-based shop rural trip length changed from 7.1 miles to 4.4 miles

Home-based other rural trip length changed from 7.9 miles to 4.4 miles

Commercial-based commute rural trip length changed from 14.7 miles to 6 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 6 miles

1/4/2011 8:53:13 AM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Operational_Revised Winter Traffic 12-2010\Alt 1 and 3\Alternative 1 and 3 Winter 2021.urb924

Project Name: Alternative 1 Winter Operations 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	12.35	15.42	118.24	0.10	20.77	3.96	10,715.02

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	12.35	15.42	118.24	0.10	20.77	3.96	10,715.02

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	0.17	0.20	1.66	0.00	0.24	0.05	129.28
Condo/townhouse general	2.33	2.69	22.89	0.02	3.33	0.64	1,781.02
Hotel	1.37	1.74	13.01	0.01	2.39	0.45	1,222.34
Strip mall	2.47	3.15	23.52	0.02	4.32	0.82	2,210.62
Hotel Peak	0.52	0.66	4.92	0.00	0.90	0.17	462.53
Townhouse Peak	0.19	0.24	1.81	0.00	0.33	0.06	170.05
Parking	4.06	5.16	38.60	0.04	7.09	1.35	3,627.68
Skier Drop Off	1.01	1.29	9.65	0.01	1.77	0.34	906.92
Timeshare	0.23	0.29	2.18	0.00	0.40	0.08	204.58
TOTALS (lbs/day, unmitigated)	12.35	15.42	118.24	0.10	20.77	3.96	10,715.02

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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
Apartments low rise	0.81	2.79	dwelling units	13.00	36.27	140.50
Condo/townhouse general	10.38	3.01	dwelling units	166.00	499.66	1,935.48

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Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel		3.46	rooms	67.00	231.82	1,390.92
Strip mall		16.77	1000 sq ft	25.00	419.25	2,515.50
Hotel Peak		1.29	unknown	68.00	87.72	526.32
Townhouse Peak		1.29	unknown	25.00	32.25	193.50
Parking		1.72	unknown	400.00	688.00	4,128.00
Skier Drop Off		1.72	unknown	100.00	172.00	1,032.00
Timeshare		3.88	unknown	10.00	38.80	232.80
					2,205.77	12,095.02

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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)	2.8	4.4	4.4	5.9	5.9	6.0
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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0
Townhouse Peak				0.0	0.0	100.0
Parking				0.0	0.0	100.0
Skier Drop Off				0.0	0.0	100.0
Timeshare				0.0	0.0	100.0

11/17/2009 10:12:53 AM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Alternative 4 Summer and Winter 2020 Opertions.urb924

Project Name: Alternative 4 Summer and Winter 2020 and 2021

Project Location: Mountain Counties Air Basin

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	0.62	0.40	4.32	0.00	0.74	0.14	452.57
General office building	1.75	1.66	16.08	0.02	3.29	0.63	1,939.73
TOTALS (lbs/day, unmitigated)	2.37	2.06	20.40	0.02	4.03	0.77	2,392.30

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	5.33	6.75	dwelling units	16.00	108.00	432.00
General office building		25.54	1000 sq ft	15.00	383.10	1,915.50
					491.10	2,347.50

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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)	4.0	4.0	4.0	5.0	5.0	5.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
% of Trips - Commercial (by land use)						
General office building				0.0	0.0	100.0

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work rural trip length changed from 16.8 miles to 4 miles

Home-based shop rural trip length changed from 7.1 miles to 4 miles

Home-based other rural trip length changed from 7.9 miles to 4 miles

Commercial-based commute rural trip length changed from 14.7 miles to 5 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 5 miles

Commercial-based customer rural trip length changed from 6.6 miles to 5 miles

11/17/2009 10:13:03 AM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Alternative 4 Summer and Winter 2020 Opertions.urb924

Project Name: Alternative 4 Summer and Winter 2020 and 2021

Project Location: Mountain Counties Air Basin

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	0.55	0.60	5.04	0.00	0.74	0.14	396.66
General office building	1.98	2.47	18.95	0.02	3.29	0.63	1,691.81
TOTALS (lbs/day, unmitigated)	2.53	3.07	23.99	0.02	4.03	0.77	2,088.47

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	5.33	6.75	dwelling units	16.00	108.00	432.00
General office building		25.54	1000 sq ft	15.00	383.10	1,915.50
					491.10	2,347.50

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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)	4.0	4.0	4.0	5.0	5.0	5.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
% of Trips - Commercial (by land use)						
General office building				0.0	0.0	100.0

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work rural trip length changed from 16.8 miles to 4 miles

Home-based shop rural trip length changed from 7.1 miles to 4 miles

Home-based other rural trip length changed from 7.9 miles to 4 miles

Commercial-based commute rural trip length changed from 14.7 miles to 5 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 5 miles

Commercial-based customer rural trip length changed from 6.6 miles to 5 miles

11/17/2009 12:42:32 PM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Operational\Alternative 5 Summer\Alternative 5 Summer 2021 Operations.urb924

Project Name: Alternative 5 Summer 2021

Project Location: Mountain Counties Air Basin

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	0.50	0.34	3.63	0.00	0.64	0.12	389.53
Condo/townhouse general	5.00	2.78	29.73	0.03	5.26	1.01	3,187.66
Hotel	1.10	0.78	7.55	0.01	1.59	0.30	933.55
Strip mall	2.17	2.01	19.48	0.02	4.10	0.78	2,408.56
Hotel Peak	0.61	0.26	2.49	0.00	0.52	0.10	307.53
TOTALS (lbs/day, unmitigated)	9.38	6.17	62.88	0.06	12.11	2.31	7,226.83

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	5.33	5.31	dwelling units	16.00	84.96	373.82

11/17/2009 12:42:32 PM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	14.06	3.09	dwelling units	225.00	695.25	3,059.10
Hotel		4.24	rooms	37.00	156.88	925.59
Strip mall		16.19	1000 sq ft	25.00	404.75	2,388.03
Hotel Peak		1.36	unknown	38.00	51.68	304.91
					1,393.52	7,051.45

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

11/17/2009 12:42:32 PM

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)	4.4	4.4	4.4	5.5	5.5	5.9
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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work rural trip length changed from 16.8 miles to 4.4 miles

Home-based shop rural trip length changed from 7.1 miles to 4.4 miles

Home-based other rural trip length changed from 7.9 miles to 4.4 miles

Commercial-based commute rural trip length changed from 14.7 miles to 5.5 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 5.5 miles

Commercial-based customer rural trip length changed from 6.6 miles to 5.9 miles

1/4/2011 9:01:20 AM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Winter\Alternative 5 Winter 2021.urb924

Project Name: Alternative 5 Winter 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	12.06	14.84	115.80	0.10	19.68	3.74	10,212.75

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	12.06	14.84	115.80	0.10	19.68	3.74	10,212.75

1/4/2011 9:01:20 AM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	0.41	0.47	3.97	0.00	0.59	0.11	313.62
Apartments low rise	0.16	0.19	1.57	0.00	0.23	0.04	124.06
Condo/townhouse general	3.33	3.85	32.50	0.03	4.81	0.92	2,567.84
Hotel	0.73	0.93	6.97	0.01	1.26	0.24	645.83
Strip mall	2.24	2.83	21.31	0.02	3.85	0.73	1,974.97
Hotel Peak	0.28	0.36	2.67	0.00	0.48	0.09	247.78
Parking	3.93	4.97	37.45	0.03	6.77	1.29	3,470.92
Drop Off	0.98	1.24	9.36	0.01	1.69	0.32	867.73
TOTALS (lbs/day, unmitigated)	12.06	14.84	115.80	0.10	19.68	3.74	10,212.75

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	5.33	5.29	dwelling units	16.00	84.64	341.78
Apartments low rise	0.75	2.79	dwelling units	12.00	33.48	135.20
Condo/townhouse general	14.06	3.08	dwelling units	225.00	693.00	2,798.40

1/4/2011 9:01:20 AM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel		3.48	rooms	37.00	128.76	733.93
Strip mall		15.75	1000 sq ft	25.00	393.75	2,244.37
Hotel Peak		1.30	unknown	38.00	49.40	281.58
Parking		1.73	unknown	400.00	692.00	3,944.40
Drop Off		1.73	unknown	100.00	173.00	986.10
					2,248.03	11,465.76

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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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)	3.3	4.4	4.4	5.5	5.5	5.7
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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0
Parking				0.0	0.0	100.0
Drop Off				0.0	0.0	100.0

9/10/2010 9:55:17 AM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 6 Summer\Alternative 6 Summer 2021.urb924

Project Name: Alternative 6 Summer 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	8.94	5.92	60.31	0.06	11.68	2.24	6,960.56

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	8.94	5.92	60.31	0.06	11.68	2.24	6,960.56

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	0.43	0.29	3.13	0.00	0.55	0.11	335.07
Apartments low rise	0.25	0.13	1.43	0.00	0.25	0.05	152.95
Condo/townhouse general	4.32	2.39	25.60	0.03	4.53	0.87	2,744.76
Hotel	1.10	0.78	7.53	0.01	1.59	0.30	931.35
Strip mall	2.23	2.07	20.13	0.02	4.24	0.81	2,488.90
Hotel Peak	0.61	0.26	2.49	0.00	0.52	0.10	307.53
TOTALS (lbs/day, unmitigated)	8.94	5.92	60.31	0.06	11.68	2.24	6,960.56

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	4.67	5.22	dwelling units	14.00	73.08	321.55
Apartments low rise	0.75	2.78	dwelling units	12.00	33.36	146.78
Condo/townhouse general	12.19	3.07	dwelling units	195.00	598.65	2,634.06
Hotel		4.23	rooms	37.00	156.51	923.41
Strip mall		16.73	1000 sq ft	25.00	418.25	2,467.67

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Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel Peak		1.36	unknown	38.00	51.68	304.91
					1,331.53	6,798.38

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

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

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Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	4.4	4.4	4.4	5.5	5.5	5.9
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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0

1/4/2011 9:06:01 AM

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alt 6\Alternative 6 Winter 2021.urb924

Project Name: Alternative 6 Winter 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	11.75	14.42	112.16	0.09	19.17	3.66	9,932.63

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	11.75	14.42	112.16	0.09	19.17	3.66	9,932.63

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	0.37	0.42	3.50	0.00	0.53	0.10	279.96
Apartments low rise	0.17	0.19	1.60	0.00	0.24	0.05	127.80
Condo/townhouse general	3.00	3.42	28.66	0.02	4.31	0.83	2,293.37
Hotel	0.71	0.90	6.80	0.01	1.22	0.23	627.51
Strip mall	2.41	3.05	23.01	0.02	4.14	0.79	2,122.42
Hotel Peak	0.27	0.35	2.62	0.00	0.47	0.09	241.67
Parking	3.86	4.87	36.78	0.03	6.61	1.26	3,391.92
Drop Off	0.96	1.22	9.19	0.01	1.65	0.31	847.98
TOTALS (lbs/day, unmitigated)	11.75	14.42	112.16	0.09	19.17	3.66	9,932.63

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 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	4.67	5.22	dwelling units	14.00	73.08	305.81
Apartments low rise	0.75	2.78	dwelling units	12.00	33.36	139.60
Condo/townhouse general	12.19	3.07	dwelling units	195.00	598.65	2,505.11

1/4/2011 9:06:01 AM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Hotel		3.44	rooms	37.00	127.28	712.77
Strip mall		17.22	1000 sq ft	25.00	430.50	2,410.80
Hotel Peak		1.29	unknown	38.00	49.02	274.51
Parking		1.72	unknown	400.00	688.00	3,852.80
Drop Off		1.72	unknown	100.00	172.00	963.20
					2,171.89	11,164.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	0.0	99.7	0.3
Light Truck < 3750 lbs	24.3	0.0	95.1	4.9
Light Truck 3751-5750 lbs	19.8	0.0	100.0	0.0
Med Truck 5751-8500 lbs	9.2	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	76.0	24.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.8	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	6.4	39.1	60.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	85.0	15.0

1/4/2011 9:06:01 AM

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)	3.8	4.3	4.4	5.4	5.4	5.6
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)						
Hotel				0.0	0.0	100.0
Strip mall				0.0	0.0	100.0
Hotel Peak				0.0	0.0	100.0
Parking				0.0	0.0	100.0
Drop Off				0.0	0.0	100.0

Area Source Outputs (2021)

11/19/2009 8:31:30 AM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Area Source\Alternative 1 & 3\Alternative 1 & 3 Area 2021.urb924

Project Name: Alternative 1 and 3 Area 2021

Project Location: Mountain Counties Air Basin

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)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth							
Landscape	0.74	0.12	9.27	0.00	0.03	0.03	16.85
Consumer Products	10.47						
Architectural Coatings	2.45						
TOTALS (lbs/day, unmitigated)	13.66	0.12	9.27	0.00	0.03	0.03	16.85

Area Source Changes to Defaults

11/20/2009 8:33:00 AM

Urbemis 2007 Version 9.2.4

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

File Name:

Project Name: Alternative 2 and exsiting wood stove

Project Location: Mountain Counties Air Basin

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)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth	0.71	0.13	6.40	0.02	1.04	1.01	177.59
Landscape							
Consumer Products							
Architectural Coatings							
TOTALS (lbs/day, unmitigated)	0.71	0.13	6.40	0.02	1.04	1.01	177.59

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 100%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 0%

Days used per year per wood stove changed from 82 days to 120 days

11/18/2009 5:44:52 PM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Area Source\Alternative 2\Alternative 2 Area.urb924

Project Name: Alternative 2 Area

Project Location: Mountain Counties Air Basin

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)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	0.15						
TOTALS (lbs/day, unmitigated)	0.40	0.04	3.09	0.00	0.01	0.01	5.62

Area Source Changes to Defaults

11/18/2009 5:45:40 PM

Urbemis 2007 Version 9.2.4

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

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Area Source\Alternative 4\Alternative 4 Area.urb924

Project Name: Alternative 4 Area Source

Project Location: Mountain Counties Air Basin

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)

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth							
Landscape	0.37	0.05	3.80	0.00	0.01	0.01	6.76
Consumer Products	0.78						
Architectural Coatings	0.40						
TOTALS (lbs/day, unmitigated)	1.55	0.05	3.80	0.00	0.01	0.01	6.76

Area Source Changes to Defaults

9/2/2010 1:46:44 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: G:\Sacramento\LGT-Air&Noise\Air\Homewood Ski Resort Expansion EIS 00013.09 (PCAPCD & TRPA)\URBEMIS\Area Source\Alternative 5\Alternative 5 Area 2021.urb924

Project Name: Alternative 5 Area 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	15.90	0.13	9.99	0.00	0.04	0.04	18.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	15.90	0.13	9.99	0.00	0.04	0.04	18.00

9/2/2010 1:46:44 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth							
Landscape	0.87	0.13	9.99	0.00	0.04	0.04	18.00
Consumer Products	12.38						
Architectural Coatings	2.65						
TOTALS (lbs/day, unmitigated)	15.90	0.13	9.99	0.00	0.04	0.04	18.00

Area Source Changes to Defaults

9/2/2010 11:43:16 AM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\20197\Desktop\Alternative 6\Alternative 6 Area Source 2021.urb924

Project Name: Alternative 6 Area 2021

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	13.23	0.11	8.35	0.00	0.03	0.03	15.05

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	13.23	0.11	8.35	0.00	0.03	0.03	15.05

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas							
Hearth							
Landscape	0.73	0.11	8.35	0.00	0.03	0.03	15.05
Consumer Products	10.22						
Architectural Coatings	2.28						
TOTALS (lbs/day, unmitigated)	13.23	0.11	8.35	0.00	0.03	0.03	15.05

Area Source Changes to Defaults