APPENDIX Q

AIR QUALITY MODEL RUNS (REVISED)

Air Quality Emissions Calculations

ALTERNATIVE A

10/14/2008 11:04:07 AM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

Project Name: Ione Alt A - Phase I - Near Term

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (tons/year unmitigated)	0.81	5.17	3.65	0.00	1.38	0.26	1.64	0.29	0.24	0.53	593.12
2009 TOTALS (tons/year mitigated)	0.66	4.60	3.65	0.00	1.10	0.07	1.16	0.23	0.06	0.29	593.12
Percent Reduction	17.79	11.06	0.00	0.00	20.46	74.54	28.97	20.43	74.57	44.84	0.00
2010 TOTALS (tons/year unmitigated)	0.88	2.64	2.33	0.00	0.00	0.16	0.16	0.00	0.15	0.15	316.00
2010 TOTALS (tons/year mitigated)	0.71	2.27	2.33	0.00	0.00	0.02	0.02	0.00	0.02	0.02	316.00
Percent Reduction	20.05	14.01	0.00	0.00	0.00	89.19	86.96	0.00	89.23	88.35	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.09	0.08	0.21	0.00	0.00	0.00	95.15
TOTALS (tons/year, mitigated)	0.08	0.06	0.19	0.00	0.00	0.00	76.17
Percent Reduction	11.11	25.00	9.52	NaN	NaN	NaN	19.95

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	43.73	62.60	528.21	0.28	51.77	10.08	28,233.04
TOTALS (tons/year, mitigated)	43.73	62.60	528.21	0.28	51.77	10.08	28,233.04
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	43.82	62.68	528.42	0.28	51.77	10.08	28,328.19
TOTALS (tons/year, mitigated)	43.81	62.66	528.40	0.28	51.77	10.08	28,309.21
Percent Reduction	0.02	0.03	0.00	0.00	0.00	0.00	0.07

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: Ione Alt A - Phase I - Near Term

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
2009 TOTALS (lbs/day unmitigated)	15.56	180.62	75.66	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
2009 TOTALS (lbs/day mitigated)	14.85	179.40	75.66	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
2010 TOTALS (lbs/day unmitigated)	18.69	61.35	53.89	0.02	0.09	3.77	3.86	0.03	3.46	3.50	7,299.24
2010 TOTALS (lbs/day mitigated)	15.24	52.74	53.89	0.02	0.09	0.40	0.50	0.03	0.37	0.40	7,299.24

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.53	0.45	1.91	0.00	0.01	0.01	522.81
TOTALS (lbs/day, mitigated)	0.53	0.37	1.84	0.00	0.01	0.01	418.81
Percent Reduction	0.00	17.78	3.66	NaN	0.00	0.00	19.89

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64
TOTALS (lbs/day, mitigated)	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	212.41	292.94	2,823.60	1.57	283.69	55.22	161,746.45
TOTALS (lbs/day, mitigated)	212.41	292.86	2,823.53	1.57	283.69	55.22	161,642.45
Percent Reduction	0.00	0.03	0.00	0.00	0.00	0.00	0.06

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 6/1/2009-6/15/2009 Active Days: 13	11.97	**180.62**	64.71	**0.21**	**164.58**	**7.14**	**171.71**	**34.33**	**6.57**	**40.69**	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72

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Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/16/2009-7/16/2009 Active Days: 1	14.85	122.88	**75.66**	0.01	29.66	5.79	35.45	6.20	5.33	11.53	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.87	41.77	37.38	0.01	0.07	2.32	2.39	0.02	2.13	2.15	4,968.23
Building 08/01/2009-04/15/2010	5.87	41.77	37.38	0.01	0.07	2.32	2.39	0.02	2.13	2.15	4,968.23
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.17	2.28	2.00	0.00	0.01	0.09	0.10	0.01	0.08	0.08	398.15
Building Worker Trips	0.59	1.15	17.60	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,067.94
Time Slice 11/16/2009-12/31/2009 Active Days: 40	15.56	41.80	37.85	0.01	0.07	2.32	2.39	0.02	2.13	2.16	4,997.19
Building 08/01/2009-04/15/2010	5.87	41.77	37.38	0.01	0.07	2.32	2.39	0.02	2.13	2.15	4,968.23
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.17	2.28	2.00	0.00	0.01	0.09	0.10	0.01	0.08	0.08	398.15
Building Worker Trips	0.59	1.15	17.60	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,067.94
Coating 11/15/2009-04/30/2010	9.69	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.97
Architectural Coating	9.67	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	28.97

Time Slice 1/1/2010-2/27/2010 Active Days: 50	15.20	39.13	36.24	0.01	0.07	2.14	2.21	0.02	1.97	2.00	4,998.01
Building 08/01/2009-04/15/2010	5.51	39.10	35.79	0.01	0.07	2.14	2.21	0.02	1.97	2.00	4,969.02
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.16	2.09	1.87	0.00	0.01	0.08	0.09	0.01	0.07	0.08	398.25
Building Worker Trips	0.54	1.07	16.45	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,068.64
Coating 11/15/2009-04/30/2010	9.68	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	9.67	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Time Slice 3/1/2010-4/15/2010 Active Days: 40	18.69	61.35	53.89	0.02	0.09	3.77	3.86	0.03	3.46	3.50	7,299.24
Asphalt 03/01/2010-05/31/2010	3.49	22.22	17.65	0.00	0.02	1.62	1.85	0.01	1.49	1.50	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.51	39.10	35.79	0.01	0.07	2.14	2.21	0.02	1.97	2.00	4,969.02
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.16	2.09	1.87	0.00	0.01	0.08	0.09	0.01	0.07	0.08	398.25
Building Worker Trips	0.54	1.07	16.45	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,068.64
Coating 11/15/2009-04/30/2010	9.68	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	9.67	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99

Time Slice 4/16/2010-4/30/2010 Active Days: 13	13.17	22.25	18.10	0.01	0.03	1.62	1.65	0.01	1.49	1.50	2,330.22
Asphalt 03/01/2010-05/31/2010	3.49	22.22	17.65	0.00	0.02	1.62	1.65	0.01	1.49	1.50	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	9.68	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	9.67	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.49	22.22	17.65	0.00	0.02	1.62	1.65	0.01	1.49	1.50	2,301.23
Asphalt 03/01/2010-05/31/2010	3.49	22.22	17.65	0.00	0.02	1.62	1.65	0.01	1.49	1.50	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

Acres to be Paved: 0.74

Off-Road Equipment:

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

2 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

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

Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

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

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

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

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

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

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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

Time Slice 6/1/2009-6/15/2009 Active Days: 13	11.97	179.40	64.71	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
Demolition 06/01/2009-06/15/2009	11.97	179.40	64.71	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	6.93	4.78	0.00	0.00	0.05	0.05	0.00	0.04	0.04	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72
Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/16/2009-7/16/2009 Active Days: 1	14.85	104.64	75.66	0.01	2.15	0.46	2.61	0.46	0.42	0.88	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.87	36.02	37.38	0.01	0.07	0.28	0.35	0.02	0.26	0.28	4,968.23
Building 08/01/2009-04/15/2010	5.87	36.02	37.38	0.01	0.07	0.28	0.35	0.02	0.26	0.28	4,968.23
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.17	2.28	2.00	0.00	0.01	0.09	0.10	0.01	0.08	0.08	398.15
Building Worker Trips	0.59	1.15	17.60	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,067.94

Time Slice 11/16/2009-12/31/2009 Active Days: 40	8.37	36.05	37.85	0.01	0.07	0.28	0.35	0.02	0.26	0.28	4,997.19
Building 08/01/2009-04/15/2010	5.87	36.02	37.38	0.01	0.07	0.28	0.35	0.02	0.26	0.28	4,968.23
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.17	2.28	2.00	0.00	0.01	0.09	0.10	0.01	0.08	0.08	398.15
Building Worker Trips	0.59	1.15	17.60	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,067.94
Coating 11/15/2009-04/30/2010	2.49	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.97
Architectural Coating	2.48	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	28.97
Time Slice 1/1/2010-2/27/2010 Active Days: 50	11.75	33.74	36.24	0.01	0.07	0.26	0.33	0.02	0.24	0.26	4,998.01
Building 08/01/2009-04/15/2010	5.51	33.71	35.79	0.01	0.07	0.26	0.33	0.02	0.24	0.26	4,969.02
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.16	2.09	1.87	0.00	0.01	0.08	0.09	0.01	0.07	0.08	398.25
Building Worker Trips	0.54	1.07	16.45	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,068.64
Coating 11/15/2009-04/30/2010	6.24	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	6.22	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99

Time Slice 3/1/2010-4/15/2010 Active Days: 40	15.24	52.74	53.89	0.02	0.09	0.40	0.50	0.03	0.37	0.40	7,299.24
Asphalt 03/01/2010-05/31/2010	3.49	19.00	17.65	0.00	0.02	0.14	0.17	0.01	0.13	0.14	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.51	33.71	35.79	0.01	0.07	0.26	0.33	0.02	0.24	0.26	4,969.02
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.16	2.09	1.87	0.00	0.01	0.08	0.09	0.01	0.07	0.08	398.25
Building Worker Trips	0.54	1.07	16.45	0.01	0.05	0.03	0.08	0.02	0.02	0.04	1,068.64
Coating 11/15/2009-04/30/2010	6.24	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	6.22	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Time Slice 4/16/2010-4/30/2010 Active Days: 13	9.73	19.03	18.10	0.01	0.03	0.14	0.17	0.01	0.13	0.14	2,330.22
Asphalt 03/01/2010-05/31/2010	3.49	19.00	17.65	0.00	0.02	0.14	0.17	0.01	0.13	0.14	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	6.24	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99
Architectural Coating	6.22	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	0.03	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.99

Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.49	19.00	17.65	0.00	0.02	0.14	0.17	0.01	0.13	0.14	2,301.23
Asphalt 03/01/2010-05/31/2010	3.49	19.00	17.65	0.00	0.02	0.14	0.17	0.01	0.13	0.14	2,301.23
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.02	0.31	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	42.59
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

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For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Loaders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Loaders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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	0.03	0.43	0.36	0.00	0.00	0.00	520.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.38						
TOTALS (lbs/day, unmitigated)	0.53	0.45	1.91	0.00	0.01	0.01	522.81

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Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.03	0.35	0.29	0.00	0.00	0.00	416.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.38						
TOTALS (lbs/day, mitigated)	0.53	0.37	1.84	0.00	0.01	0.01	418.81

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Commercial Increase Energy Efficiency Beyond Title 24	20.00

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64
TOTALS (lbs/day, unmitigated)	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64
TOTALS (lbs/day, mitigated)	211.88	292.49	2,821.69	1.57	283.68	55.21	161,223.64

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was NOT selected.

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
Casino		92.95	1000 sq ft	65.00	6,041.75	164,144.68
					6,041.75	164,144.68

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	2.4	97.0	0.6
Light Truck < 3750 lbs	24.5	4.1	86.5	9.4
Light Truck 3751-5750 lbs	19.6	1.5	98.0	0.5
Med Truck 5751-8500 lbs	9.1	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	64.0	36.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	11.1	22.2	66.7
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	67.2	32.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	5.0	85.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
% of Trips - Commercial (by land use)						
Casino				5.0	2.5	92.5

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 28 miles

Home-based shop rural trip length changed from 7.1 miles to 28 miles

Home-based other rural trip length changed from 7.9 miles to 28 miles

Commercial-based commute rural trip length changed from 14.7 miles to 28 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 28 miles

Commercial-based customer rural trip length changed from 6.6 miles to 28 miles

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

Project Name: Ione - Alt A - Phase II - Near Term Construction

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2012 TOTALS (tons/year unmitigated)	0.68	1.35	1.64	0.00	0.46	0.08	0.55	0.10	0.08	0.17	197.69
2012 TOTALS (tons/year mitigated)	0.38	1.16	1.64	0.00	0.04	0.01	0.04	0.01	0.01	0.02	197.69
Percent Reduction	43.86	13.89	0.00	0.00	92.35	88.82	91.81	91.93	89.01	90.65	0.00
2013 TOTALS (tons/year unmitigated)	1.17	1.20	1.48	0.00	0.00	0.09	0.09	0.00	0.08	0.08	178.85
2013 TOTALS (tons/year mitigated)	0.82	1.04	1.48	0.00	0.00	0.01	0.01	0.00	0.01	0.01	178.85
Percent Reduction	29.81	13.92	0.00	0.00	0.00	89.27	86.49	0.00	89.45	88.34	0.00

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: Ione - Alt A - Phase II - Near Term Construction

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
2012 TOTALS (lbs/day unmitigated)	22.82	38.46	36.65	0.01	28.85	2.17	31.02	6.03	1.99	8.02	4,987.52
2012 TOTALS (lbs/day mitigated)	8.98	32.95	36.65	0.01	2.08	0.21	2.30	0.44	0.19	0.64	4,987.52
2013 TOTALS (lbs/day unmitigated)	24.96	29.43	34.46	0.01	0.06	2.14	2.20	0.02	1.97	1.99	4,192.63
2013 TOTALS (lbs/day mitigated)	17.76	25.31	34.46	0.01	0.06	0.22	0.28	0.02	0.20	0.22	4,192.63

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 6/1/2012-6/29/2012 Active Days: 21	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Mass Grading 06/01/2012-07/01/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Mass Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.06	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/2/2012-7/13/2012 Active Days: 10	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading 07/01/2012-07/16/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Fine Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/16/2012-7/16/2012 Active Days: 1	6.43	**38.46**	**36.65**	0.01	**28.85**	**2.17**	**31.02**	**6.03**	**1.99**	**8.02**	**4,987.52**
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Fine Grading 07/01/2012-07/16/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Fine Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91

Time Slice 7/17/2012-10/31/2012 Active Days: 77	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Time Slice 11/1/2012-12/31/2012 Active Days: 43	22.82	16.44	23.95	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,661.04
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Coating 11/01/2012-05/15/2013	19.14	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Time Slice 1/1/2013-2/28/2013 Active Days: 43	22.51	15.38	22.62	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,661.58
Building 07/16/2012-05/15/2013	3.38	15.36	22.31	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,638.82
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	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	19.14	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76

Time Slice 3/1/2013-5/15/2013 Active Days: 54	24.96	29.43	34.46	0.01	0.06	2.14	2.20	0.02	1.97	1.99	4,192.63
Asphalt 03/01/2013-05/30/2013	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
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	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	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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 07/16/2012-05/15/2013	3.38	15.36	22.31	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,638.82
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	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	19.14	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Time Slice 5/16/2013-5/30/2013 Active Days: 11	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
Asphalt 03/01/2013-05/30/2013	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
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	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	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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

Phase Assumptions

Phase: Fine Grading 7/1/2012 - 7/16/2012 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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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: Mass Grading 6/1/2012 - 7/1/2012 - Type Your Description Here

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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 3/1/2013 - 5/30/2013 - Default Paving Description

Acres to be Paved: 3

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

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Phase: Building Construction 7/16/2012 - 5/15/2013 - 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 11/1/2012 - 5/15/2013 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2012-6/29/2012 Active Days: 21	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Mass Grading 06/01/2012-07/01/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Mass Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Mass Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	2,247.32
Mass 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
Mass Grading Worker Trips	0.06	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91

Time Slice 7/2/2012-7/13/2012 Active Days: 10	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading 07/01/2012-07/16/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Fine Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/16/2012-7/16/2012 Active Days: 1	6.43	32.95	36.65	0.01	2.08	0.21	2.30	0.44	0.19	0.64	4,987.52
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Fine Grading 07/01/2012-07/16/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Fine Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/17/2012-10/31/2012 Active Days: 77	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25

Time Slice 11/1/2012-12/31/2012 Active Days: 43	8.98	14.22	23.95	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,661.04
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Coating 11/01/2012-05/15/2013	5.30	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Architectural Coating	5.29	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	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Time Slice 1/1/2013-2/28/2013 Active Days: 43	15.31	13.29	22.62	0.01	0.05	0.12	0.17	0.02	0.11	0.13	2,661.58
Building 07/16/2012-05/15/2013	3.38	13.27	22.31	0.01	0.05	0.12	0.17	0.02	0.11	0.12	2,638.82
Building Off Road Diesel	2.88	11.82	10.20	0.00	0.00	0.07	0.07	0.00	0.06	0.06	1,621.20
Building Vendor Trips	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	11.94	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	11.93	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	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76

Time Slice 3/1/2013-5/15/2013 Active Days: 54	17.76	25.31	34.46	0.01	0.06	0.22	0.28	0.02	0.20	0.22	4,192.63
Asphalt 03/01/2013-05/30/2013	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
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	2.19	11.56	8.91	0.00	0.00	0.09	0.09	0.00	0.08	0.08	1,272.04
Paving On Road Diesel	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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 07/16/2012-05/15/2013	3.38	13.27	22.31	0.01	0.05	0.12	0.17	0.02	0.11	0.12	2,638.82
Building Off Road Diesel	2.88	11.82	10.20	0.00	0.00	0.07	0.07	0.00	0.06	0.06	1,621.20
Building Vendor Trips	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	11.94	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	11.93	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	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Time Slice 5/16/2013-5/30/2013 Active Days: 11	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
Asphalt 03/01/2013-05/30/2013	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
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	2.19	11.56	8.91	0.00	0.00	0.09	0.09	0.00	0.08	0.08	1,272.04
Paving On Road Diesel	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/1/2012 - 7/16/2012 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/1/2012 - 7/1/2012 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2013 - 5/30/2013 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 7/16/2012 - 5/15/2013 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Generator Sets, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Generator Sets, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/1/2012 - 5/15/2013 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

Project Name: Ione - Alt A - Phase I and II - Near-Term Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.25	0.44	0.65	0.00	0.00	0.00	533.41
TOTALS (tons/year, mitigated)	0.25	0.36	0.58	0.00	0.00	0.00	426.83
Percent Reduction	0.00	18.18	10.77	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	36.50	52.87	427.31	0.30	55.99	10.78	30,814.96
TOTALS (tons/year, mitigated)	36.50	52.87	427.31	0.30	55.99	10.78	30,814.96
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	36.75	53.31	427.96	0.30	55.99	10.78	31,348.37
TOTALS (tons/year, mitigated)	36.75	53.23	427.89	0.30	55.99	10.78	31,241.79
Percent Reduction	0.00	0.15	0.02	0.00	0.00	0.00	0.34

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: Ione - Alt A - Phase I and II - Near-Term Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.54	2.47	5.13	0.00	0.01	0.01	2,925.62
TOTALS (lbs/day, mitigated)	1.50	1.99	4.73	0.00	0.01	0.01	2,341.62
Percent Reduction	2.60	19.43	7.80	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	178.36	247.43	2,303.17	1.71	306.81	59.08	176,155.31
TOTALS (lbs/day, mitigated)	178.36	247.43	2,303.17	1.71	306.81	59.08	176,155.31
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	179.90	249.90	2,308.30	1.71	306.82	59.09	179,080.93
TOTALS (lbs/day, mitigated)	179.86	249.42	2,307.90	1.71	306.82	59.09	178,496.93
Percent Reduction	0.02	0.19	0.02	0.00	0.00	0.00	0.33

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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	0.18	2.43	2.04	0.00	0.00	0.00	2,920.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.11						
TOTALS (lbs/day, unmitigated)	1.54	2.47	5.13	0.00	0.01	0.01	2,925.62

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.14	1.95	1.64	0.00	0.00	0.00	2,336.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.11						
TOTALS (lbs/day, mitigated)	1.50	1.99	4.73	0.00	0.01	0.01	2,341.62

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	16.87	19.35	180.09	0.13	23.99	4.62	13,774.21
Casino	161.49	228.08	2,123.08	1.58	282.82	54.46	162,381.10
TOTALS (lbs/day, unmitigated)	178.36	247.43	2,303.17	1.71	306.81	59.08	176,155.31

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	16.87	19.35	180.09	0.13	23.99	4.62	13,774.21
Casino	161.49	228.08	2,123.08	1.58	282.82	54.46	162,381.10
TOTALS (lbs/day, mitigated)	178.36	247.43	2,303.17	1.71	306.81	59.08	176,155.31

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 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
Hotel		2.05	rooms	250.00	512.50	13,923.80
Casino		92.95	1000 sq ft	65.00	6,041.75	164,144.68
					6,554.25	178,068.48

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.5	0.9	98.8	0.3
Light Truck < 3750 lbs	24.5	2.4	89.4	8.2
Light Truck 3751-5750 lbs	19.7	1.0	98.5	0.5
Med Truck 5751-8500 lbs	9.2	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	68.0	32.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	54.7	45.3	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)	28.0	28.0	28.0	28.0	28.0	28.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5
Casino				5.0	2.5	92.5

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt A - Phase I and II - Cumulative Operation.urb924

Project Name: Ione - Alt A - Phase I and II - Cumulative Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.25	0.44	0.65	0.00	0.00	0.00	533.41
TOTALS (tons/year, mitigated)	0.25	0.36	0.58	0.00	0.00	0.00	426.83
Percent Reduction	0.00	18.18	10.77	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	14.66	12.00	136.15	0.30	55.56	10.39	30,769.57
TOTALS (tons/year, mitigated)	14.66	12.00	136.15	0.30	55.56	10.39	30,769.57
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	14.91	12.44	136.80	0.30	55.56	10.39	31,302.98
TOTALS (tons/year, mitigated)	14.91	12.36	136.73	0.30	55.56	10.39	31,196.40
Percent Reduction	0.00	0.64	0.05	0.00	0.00	0.00	0.34

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt A - Phase I and II - Cumulative Operation.urb924

Project Name: Ione - Alt A - Phase I and II - Cumulative Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.54	2.47	5.13	0.00	0.01	0.01	2,925.62
TOTALS (lbs/day, mitigated)	1.50	1.99	4.73	0.00	0.01	0.01	2,341.62
Percent Reduction	2.60	19.43	7.80	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	72.14	55.83	733.73	1.70	304.45	56.97	176,543.77
TOTALS (lbs/day, mitigated)	72.14	55.83	733.73	1.70	304.45	56.97	176,543.77
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	73.68	58.30	738.86	1.70	304.46	56.98	179,469.39
TOTALS (lbs/day, mitigated)	73.64	57.82	738.46	1.70	304.46	56.98	178,885.39
Percent Reduction	0.05	0.82	0.05	0.00	0.00	0.00	0.33

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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	0.18	2.43	2.04	0.00	0.00	0.00	2,920.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.11						
TOTALS (lbs/day, unmitigated)	1.54	2.47	5.13	0.00	0.01	0.01	2,925.62

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.14	1.95	1.64	0.00	0.00	0.00	2,336.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.11						
TOTALS (lbs/day, mitigated)	1.50	1.99	4.73	0.00	0.01	0.01	2,341.62

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	6.67	4.37	57.37	0.13	23.81	4.45	13,804.58
Casino	65.47	51.46	676.36	1.57	280.64	52.52	162,739.19
TOTALS (lbs/day, unmitigated)	72.14	55.83	733.73	1.70	304.45	56.97	176,543.77

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	6.67	4.37	57.37	0.13	23.81	4.45	13,804.58
Casino	65.47	51.46	676.36	1.57	280.64	52.52	162,739.19
TOTALS (lbs/day, mitigated)	72.14	55.83	733.73	1.70	304.45	56.97	176,543.77

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 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
Hotel		2.05	rooms	250.00	512.50	13,923.80
Casino		92.95	1000 sq ft	65.00	6,041.75	164,144.68
					6,554.25	178,068.48

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.8	0.0	100.0	0.0
Light Truck < 3750 lbs	24.4	0.0	99.2	0.8
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	80.0	20.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	58.3	41.7
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	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	6.3	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	90.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5
Casino				5.0	2.5	92.5

ALTERNATIVE B

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione Alt B - Phase 1 - Near Term Construction and Operation.urb924

Project Name: Ione Alt B - Phase I - Near Term

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (tons/year unmitigated)	0.75	5.11	3.33	0.00	1.38	0.26	1.63	0.29	0.24	0.52	568.97
2009 TOTALS (tons/year mitigated)	0.64	4.54	3.33	0.00	1.10	0.06	1.16	0.23	0.06	0.29	568.97
Percent Reduction	14.43	11.18	0.00	0.00	20.48	75.08	29.03	20.46	75.10	45.02	0.00
2010 TOTALS (tons/year unmitigated)	0.75	2.60	2.12	0.00	0.00	0.16	0.16	0.00	0.15	0.15	298.71
2010 TOTALS (tons/year mitigated)	0.62	2.23	2.12	0.00	0.00	0.02	0.02	0.00	0.01	0.02	298.71
Percent Reduction	17.70	14.22	0.00	0.00	0.00	89.93	88.09	0.00	89.96	89.24	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.06	0.06	0.19	0.00	0.00	0.00	71.43
TOTALS (tons/year, mitigated)	0.06	0.05	0.18	0.00	0.00	0.00	57.19
Percent Reduction	0.00	16.67	5.26	NaN	NaN	NaN	19.94

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	32.80	46.95	396.16	0.21	38.83	7.56	21,174.78
TOTALS (tons/year, mitigated)	32.80	46.95	396.16	0.21	38.83	7.56	21,174.78
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	32.86	47.01	396.35	0.21	38.83	7.56	21,246.21
TOTALS (tons/year, mitigated)	32.86	47.00	396.34	0.21	38.83	7.56	21,231.97
Percent Reduction	0.00	0.02	0.00	0.00	0.00	0.00	0.07

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione Alt B - Phase 1 - Near Term Construction and Operation.urb924

Project Name: Ione Alt B - Phase I - Near Term

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
2009 TOTALS (lbs/day unmitigated)	14.85	180.62	75.66	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
2009 TOTALS (lbs/day mitigated)	14.85	179.40	75.66	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
2010 TOTALS (lbs/day unmitigated)	16.08	60.48	49.18	0.02	0.08	3.74	3.81	0.03	3.44	3.46	6,914.91
2010 TOTALS (lbs/day mitigated)	13.49	51.87	49.18	0.02	0.08	0.37	0.45	0.03	0.34	0.37	6,914.91

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.43	0.34	1.82	0.00	0.01	0.01	392.81
TOTALS (lbs/day, mitigated)	0.43	0.28	1.77	0.00	0.01	0.01	314.81
Percent Reduction	0.00	17.65	2.75	NaN	0.00	0.00	19.86

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73
TOTALS (lbs/day, mitigated)	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	159.34	219.71	2,118.09	1.18	212.77	41.42	121,310.54
TOTALS (lbs/day, mitigated)	159.34	219.65	2,118.04	1.18	212.77	41.42	121,232.54
Percent Reduction	0.00	0.03	0.00	0.00	0.00	0.00	0.06

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 6/1/2009-6/15/2009 Active Days: 13	11.97	**180.62**	64.71	**0.21**	**164.58**	**7.14**	**171.71**	**34.33**	**6.57**	**40.89**	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72

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Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/16/2009-7/16/2009 Active Days: 1	14.85	122.88	75.66	0.01	29.66	5.79	35.45	6.20	5.33	11.53	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.68	40.91	32.48	0.01	0.05	2.29	2.34	0.02	2.10	2.12	4,601.70
Building 08/01/2009-04/15/2010	5.68	40.91	32.48	0.01	0.05	2.29	2.34	0.02	2.10	2.12	4,601.70
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.13	1.71	1.50	0.00	0.01	0.06	0.08	0.00	0.06	0.06	298.61
Building Worker Trips	0.44	0.87	13.20	0.01	0.04	0.02	0.06	0.01	0.02	0.03	800.95
Time Slice 11/16/2009-12/31/2009 Active Days: 40	12.95	40.93	32.83	0.01	0.05	2.29	2.34	0.02	2.10	2.12	4,623.43
Building 08/01/2009-04/15/2010	5.68	40.91	32.48	0.01	0.05	2.29	2.34	0.02	2.10	2.12	4,601.70
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.13	1.71	1.50	0.00	0.01	0.06	0.08	0.00	0.06	0.06	298.61
Building Worker Trips	0.44	0.87	13.20	0.01	0.04	0.02	0.06	0.01	0.02	0.03	800.95
Coating 11/15/2009-04/30/2010	7.26	0.02	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73
Architectural Coating	7.25	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	0.02	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73

Time Slice 1/1/2010-2/27/2010 Active Days: 50	12.60	38.33	31.55	0.01	0.05	2.12	2.17	0.02	1.95	1.97	4,624.04
Building 08/01/2009-04/15/2010	5.34	38.31	31.21	0.01	0.05	2.12	2.17	0.02	1.95	1.97	4,602.30
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.12	1.57	1.40	0.00	0.01	0.06	0.07	0.00	0.05	0.06	298.69
Building Worker Trips	0.41	0.80	12.34	0.01	0.04	0.02	0.06	0.01	0.02	0.03	801.48
Coating 11/15/2009-04/30/2010	7.26	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	7.25	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Time Slice 3/1/2010-4/15/2010 Active Days: 40	16.08	60.48	49.18	0.02	0.08	3.74	3.81	0.03	3.44	3.46	6,914.91
Asphalt 03/01/2010-05/31/2010	3.48	22.15	17.63	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.34	38.31	31.21	0.01	0.05	2.12	2.17	0.02	1.95	1.97	4,602.30
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.12	1.57	1.40	0.00	0.01	0.06	0.07	0.00	0.05	0.06	298.69
Building Worker Trips	0.41	0.80	12.34	0.01	0.04	0.02	0.06	0.01	0.02	0.03	801.48
Coating 11/15/2009-04/30/2010	7.26	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	7.25	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74

Time Slice 4/16/2010-4/30/2010 Active Days: 13	10.74	22.17	17.96	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,312.61
Asphalt 03/01/2010-05/31/2010	3.48	22.15	17.63	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	7.26	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	7.25	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.48	22.15	17.63	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,290.87
Asphalt 03/01/2010-05/31/2010	3.48	22.15	17.63	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

Acres to be Paved: 0.56

Off-Road Equipment:

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

2 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

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

Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

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

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

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

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

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

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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

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Time Slice 6/1/2009-6/15/2009 Active Days: 13	11.97	179.40	64.71	**0.21**	**164.58**	6.55	171.12	**34.33**	6.02	40.35	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	179.40	64.71	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	6.93	4.78	0.00	0.00	0.05	0.05	0.00	0.04	0.04	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72
Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/16/2009-7/16/2009 Active Days: 1	14.85	104.64	75.66	0.01	2.15	0.46	2.61	0.46	0.42	0.88	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.68	35.16	32.48	0.01	0.05	0.25	0.30	0.02	0.23	0.25	4,601.70
Building 08/01/2009-04/15/2010	5.68	35.16	32.48	0.01	0.05	0.25	0.30	0.02	0.23	0.25	4,601.70
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.13	1.71	1.50	0.00	0.01	0.06	0.08	0.00	0.06	0.06	298.61
Building Worker Trips	0.44	0.87	13.20	0.01	0.04	0.02	0.06	0.01	0.02	0.03	800.95

Time Slice 11/16/2009-12/31/2009 Active Days: 40	7.55	35.18	32.83	0.01	0.05	0.25	0.30	0.02	0.23	0.25	4,623.43
Building 08/01/2009-04/15/2010	5.68	35.16	32.48	0.01	0.05	0.25	0.30	0.02	0.23	0.25	4,601.70
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.13	1.71	1.50	0.00	0.01	0.06	0.08	0.00	0.06	0.06	298.61
Building Worker Trips	0.44	0.87	13.20	0.01	0.04	0.02	0.06	0.01	0.02	0.03	800.95
Coating 11/15/2009-04/30/2010	1.87	0.02	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73
Architectural Coating	1.86	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	0.02	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73
Time Slice 1/1/2010-2/27/2010 Active Days: 50	10.02	32.94	31.55	0.01	0.05	0.23	0.29	0.02	0.21	0.23	4,624.04
Building 08/01/2009-04/15/2010	5.34	32.92	31.21	0.01	0.05	0.23	0.28	0.02	0.21	0.23	4,602.30
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.12	1.57	1.40	0.00	0.01	0.06	0.07	0.00	0.05	0.06	298.69
Building Worker Trips	0.41	0.80	12.34	0.01	0.04	0.02	0.06	0.01	0.02	0.03	801.48
Coating 11/15/2009-04/30/2010	4.68	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	4.67	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74

Time Slice 3/1/2010-4/15/2010 Active Days: 40	13.49	51.87	49.18	0.02	0.08	0.37	0.45	0.03	0.34	0.37	6,914.91
Asphalt 03/01/2010-05/31/2010	3.48	18.93	17.63	0.00	0.02	0.14	0.16	0.01	0.13	0.14	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.34	32.92	31.21	0.01	0.05	0.23	0.28	0.02	0.21	0.23	4,602.30
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.12	1.57	1.40	0.00	0.01	0.06	0.07	0.00	0.05	0.06	298.69
Building Worker Trips	0.41	0.80	12.34	0.01	0.04	0.02	0.06	0.01	0.02	0.03	801.48
Coating 11/15/2009-04/30/2010	4.68	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	4.67	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Time Slice 4/16/2010-4/30/2010 Active Days: 13	8.16	18.95	17.96	0.00	0.02	0.14	0.17	0.01	0.13	0.14	2,312.61
Asphalt 03/01/2010-05/31/2010	3.48	18.93	17.63	0.00	0.02	0.14	0.16	0.01	0.13	0.14	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	4.68	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74
Architectural Coating	4.67	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	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.74

Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.48	18.93	17.63	0.00	0.02	0.14	0.16	0.01	0.13	0.14	2,290.87
Asphalt 03/01/2010-05/31/2010	3.48	18.93	17.63	0.00	0.02	0.14	0.16	0.01	0.13	0.14	2,290.87
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.23	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	32.23
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

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For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Loaders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Loaders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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	0.02	0.32	0.27	0.00	0.00	0.00	390.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.29						
TOTALS (lbs/day, unmitigated)	0.43	0.34	1.82	0.00	0.01	0.01	392.81

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Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.02	0.26	0.22	0.00	0.00	0.00	312.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.29						
TOTALS (lbs/day, mitigated)	0.43	0.28	1.77	0.00	0.01	0.01	314.81

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Commercial Increase Energy Efficiency Beyond Title 24	20.00

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73
TOTALS (lbs/day, unmitigated)	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73
TOTALS (lbs/day, mitigated)	158.91	219.37	2,116.27	1.18	212.76	41.41	120,917.73

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was NOT selected.

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
Casino		92.95	1000 sq ft	48.75	4,531.31	123,108.51
					4,531.31	123,108.51

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	2.4	97.0	0.6
Light Truck < 3750 lbs	24.5	4.1	86.5	9.4
Light Truck 3751-5750 lbs	19.6	1.5	98.0	0.5
Med Truck 5751-8500 lbs	9.1	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	64.0	36.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	11.1	22.2	66.7
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	67.2	32.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	5.0	85.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)						
Casino				5.0	2.5	92.5

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 28 miles

Home-based shop rural trip length changed from 7.1 miles to 28 miles

Home-based other rural trip length changed from 7.9 miles to 28 miles

Commercial-based commute rural trip length changed from 14.7 miles to 28 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 28 miles

Commercial-based customer rural trip length changed from 6.6 miles to 28 miles

10/14/2008 11:51:27 AM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase II - Near Term Construction.urb924

Project Name: Ione - Alt B - Phase II - Near Term Construction

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2012 TOTALS (tons/year unmitigated)	0.68	1.35	1.64	0.00	0.46	0.08	0.55	0.10	0.08	0.17	197.69
2012 TOTALS (tons/year mitigated)	0.38	1.16	1.64	0.00	0.04	0.01	0.04	0.01	0.01	0.02	197.69
Percent Reduction	43.86	13.89	0.00	0.00	92.35	88.82	91.81	91.93	89.01	90.65	0.00
2013 TOTALS (tons/year unmitigated)	1.17	1.20	1.48	0.00	0.00	0.09	0.09	0.00	0.08	0.08	178.85
2013 TOTALS (tons/year mitigated)	0.82	1.04	1.48	0.00	0.00	0.01	0.01	0.00	0.01	0.01	178.85
Percent Reduction	29.81	13.92	0.00	0.00	0.00	89.27	86.49	0.00	89.45	88.34	0.00

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase II - Near Term Construction.urb924

Project Name: Ione - Alt B - Phase II - Near Term Construction

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
2012 TOTALS (lbs/day unmitigated)	22.82	38.46	36.65	0.01	28.85	2.17	31.02	6.03	1.99	8.02	4,987.52
2012 TOTALS (lbs/day mitigated)	8.98	32.95	36.65	0.01	2.08	0.21	2.30	0.44	0.19	0.64	4,987.52
2013 TOTALS (lbs/day unmitigated)	24.96	29.43	34.46	0.01	0.06	2.14	2.20	0.02	1.97	1.99	4,192.63
2013 TOTALS (lbs/day mitigated)	17.76	25.31	34.46	0.01	0.06	0.22	0.28	0.02	0.20	0.22	4,192.63

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 6/1/2012-6/29/2012 Active Days: 21	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Mass Grading 06/01/2012-07/01/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Mass Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Mass Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	2,247.32
Mass 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
Mass Grading Worker Trips	0.06	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/2/2012-7/13/2012 Active Days: 10	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading 07/01/2012-07/16/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Fine Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/16/2012-7/16/2012 Active Days: 1	6.43	**38.46**	**36.65**	0.01	**28.85**	**2.17**	**31.02**	**6.03**	**1.99**	**8.02**	**4,987.52**
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Fine Grading 07/01/2012-07/16/2012	2.75	22.04	13.04	0.00	28.80	1.07	29.88	6.02	0.99	7.00	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	28.80	0.00	28.80	6.01	0.00	6.01	0.00
Fine Grading Off Road Diesel	2.69	21.95	11.51	0.00	0.00	1.07	1.07	0.00	0.99	0.99	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91

Time Slice 7/17/2012-10/31/2012 Active Days: 77	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Time Slice 11/1/2012-12/31/2012 Active Days: 43	22.82	16.44	23.95	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,661.04
Building 07/16/2012-05/15/2013	3.68	16.42	23.61	0.01	0.05	1.09	1.14	0.02	1.00	1.02	2,638.29
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	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Coating 11/01/2012-05/15/2013	19.14	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Time Slice 1/1/2013-2/28/2013 Active Days: 43	22.51	15.38	22.62	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,661.58
Building 07/16/2012-05/15/2013	3.38	15.36	22.31	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,638.82
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	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	19.14	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76

Time Slice 3/1/2013-5/15/2013 Active Days: 54	24.96	29.43	34.46	0.01	0.06	2.14	2.20	0.02	1.97	1.99	4,192.63
Asphalt 03/01/2013-05/30/2013	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
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	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	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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 07/16/2012-05/15/2013	3.38	15.36	22.31	0.01	0.05	0.98	1.03	0.02	0.90	0.92	2,638.82
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	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	19.14	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	19.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Time Slice 5/16/2013-5/30/2013 Active Days: 11	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
Asphalt 03/01/2013-05/30/2013	2.44	14.05	11.84	0.00	0.01	1.16	1.17	0.00	1.07	1.07	1,531.06
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	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	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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

Phase Assumptions

Phase: Fine Grading 7/1/2012 - 7/16/2012 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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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: Mass Grading 6/1/2012 - 7/1/2012 - Type Your Description Here

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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 3/1/2013 - 5/30/2013 - Default Paving Description

Acres to be Paved: 3

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

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Phase: Building Construction 7/16/2012 - 5/15/2013 - 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 11/1/2012 - 5/15/2013 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2012-6/29/2012 Active Days: 21	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Mass Grading 06/01/2012-07/01/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Mass Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Mass Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	2,247.32
Mass 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
Mass Grading Worker Trips	0.06	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91

Time Slice 7/2/2012-7/13/2012 Active Days: 10	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading 07/01/2012-07/16/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Fine Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/16/2012-7/16/2012 Active Days: 1	6.43	32.95	36.65	0.01	2.08	0.21	2.30	0.44	0.19	0.64	4,987.52
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Fine Grading 07/01/2012-07/16/2012	2.75	18.75	13.04	0.00	2.04	0.08	2.12	0.43	0.08	0.50	2,349.22
Fine Grading Dust	0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.42	0.00	0.42	0.00
Fine Grading Off Road Diesel	2.69	18.65	11.51	0.00	0.00	0.08	0.08	0.00	0.07	0.07	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	0.09	1.53	0.00	0.00	0.00	0.01	0.00	0.00	0.00	101.91
Time Slice 7/17/2012-10/31/2012 Active Days: 77	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25

Time Slice 11/1/2012-12/31/2012 Active Days: 43	8.98	14.22	23.95	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,661.04
Building 07/16/2012-05/15/2013	3.68	14.20	23.61	0.01	0.05	0.13	0.18	0.02	0.12	0.14	2,638.29
Building Off Road Diesel	3.14	12.59	10.52	0.00	0.00	0.08	0.08	0.00	0.07	0.07	1,621.20
Building Vendor Trips	0.08	0.86	0.88	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.85
Building Worker Trips	0.47	0.75	12.22	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.25
Coating 11/01/2012-05/15/2013	5.30	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Architectural Coating	5.29	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	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Time Slice 1/1/2013-2/28/2013 Active Days: 43	15.31	13.29	22.62	0.01	0.05	0.12	0.17	0.02	0.11	0.13	2,661.58
Building 07/16/2012-05/15/2013	3.38	13.27	22.31	0.01	0.05	0.12	0.17	0.02	0.11	0.12	2,638.82
Building Off Road Diesel	2.88	11.82	10.20	0.00	0.00	0.07	0.07	0.00	0.06	0.06	1,621.20
Building Vendor Trips	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	11.94	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	11.93	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	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76

Time Slice 3/1/2013-5/15/2013 Active Days: 54	17.76	25.31	34.46	0.01	0.06	0.22	0.28	0.02	0.20	0.22	4,192.63
Asphalt 03/01/2013-05/30/2013	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
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	2.19	11.56	8.91	0.00	0.00	0.09	0.09	0.00	0.08	0.08	1,272.04
Paving On Road Diesel	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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 07/16/2012-05/15/2013	3.38	13.27	22.31	0.01	0.05	0.12	0.17	0.02	0.11	0.12	2,638.82
Building Off Road Diesel	2.88	11.82	10.20	0.00	0.00	0.07	0.07	0.00	0.06	0.06	1,621.20
Building Vendor Trips	0.07	0.77	0.81	0.00	0.01	0.03	0.04	0.00	0.03	0.03	201.89
Building Worker Trips	0.43	0.69	11.30	0.01	0.04	0.02	0.06	0.01	0.02	0.03	815.73
Coating 11/01/2012-05/15/2013	11.94	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Architectural Coating	11.93	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	0.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
Time Slice 5/16/2013-5/30/2013 Active Days: 11	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
Asphalt 03/01/2013-05/30/2013	2.44	12.01	11.84	0.00	0.01	0.10	0.11	0.00	0.09	0.10	1,531.06
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	2.19	11.56	8.91	0.00	0.00	0.09	0.09	0.00	0.08	0.08	1,272.04
Paving On Road Diesel	0.02	0.28	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	55.09
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

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/1/2012 - 7/16/2012 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/1/2012 - 7/1/2012 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2013 - 5/30/2013 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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For Paving Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 7/16/2012 - 5/15/2013 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Generator Sets, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Generator Sets, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/1/2012 - 5/15/2013 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase I and II - Near-Term Operation.urb924

Project Name: Ione - Alt B - Phase I and II - Near-Term Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.24	0.42	0.64	0.00	0.00	0.00	509.69
TOTALS (tons/year, mitigated)	0.23	0.34	0.57	0.00	0.00	0.00	407.85
Percent Reduction	4.17	19.05	10.94	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	28.18	40.68	328.83	0.23	43.09	8.29	23,713.61
TOTALS (tons/year, mitigated)	28.18	40.68	328.83	0.23	43.09	8.29	23,713.61
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	28.42	41.10	329.47	0.23	43.09	8.29	24,223.30
TOTALS (tons/year, mitigated)	28.41	41.02	329.40	0.23	43.09	8.29	24,121.46
Percent Reduction	0.04	0.19	0.02	0.00	0.00	0.00	0.42

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase I and II - Near-Term Operation.urb924

Project Name: Ione - Alt B - Phase I and II - Near-Term Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.44	2.36	5.04	0.00	0.01	0.01	2,795.62
TOTALS (lbs/day, mitigated)	1.41	1.90	4.65	0.00	0.01	0.01	2,237.62
Percent Reduction	2.08	19.49	7.74	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	137.99	190.41	1,772.40	1.31	236.11	45.46	135,560.04
TOTALS (lbs/day, mitigated)	137.99	190.41	1,772.40	1.31	236.11	45.46	135,560.04
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	139.43	192.77	1,777.44	1.31	236.12	45.47	138,355.66
TOTALS (lbs/day, mitigated)	139.40	192.31	1,777.05	1.31	236.12	45.47	137,797.66
Percent Reduction	0.02	0.24	0.02	0.00	0.00	0.00	0.40

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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	0.17	2.32	1.95	0.00	0.00	0.00	2,790.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.02						
TOTALS (lbs/day, unmitigated)	1.44	2.36	5.04	0.00	0.01	0.01	2,795.62

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.14	1.86	1.56	0.00	0.00	0.00	2,232.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.02						
TOTALS (lbs/day, mitigated)	1.41	1.90	4.65	0.00	0.01	0.01	2,237.62

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	16.87	19.35	180.09	0.13	23.99	4.62	13,774.21
Casino	121.12	171.06	1,592.31	1.18	212.12	40.84	121,785.83
TOTALS (lbs/day, unmitigated)	137.99	190.41	1,772.40	1.31	236.11	45.46	135,560.04

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	16.87	19.35	180.09	0.13	23.99	4.62	13,774.21
Casino	121.12	171.06	1,592.31	1.18	212.12	40.84	121,785.83
TOTALS (lbs/day, mitigated)	137.99	190.41	1,772.40	1.31	236.11	45.46	135,560.04

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2013 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
Hotel		2.05	rooms	250.00	512.50	13,923.80
Casino		92.95	1000 sq ft	48.75	4,531.31	123,108.51
					5,043.81	137,032.31

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.5	0.9	98.8	0.3
Light Truck < 3750 lbs	24.5	2.4	89.4	8.2
Light Truck 3751-5750 lbs	19.7	1.0	98.5	0.5
Med Truck 5751-8500 lbs	9.2	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	68.0	32.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	54.7	45.3	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)	28.0	28.0	28.0	28.0	28.0	28.0
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)						
Hotel				5.0	2.5	92.5
Casino				5.0	2.5	92.5

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase I and II - Cumulative Operation.urb924

Project Name: Ione - Alt B - Phase I and II - Cumulative Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.24	0.42	0.64	0.00	0.00	0.00	509.69
TOTALS (tons/year, mitigated)	0.23	0.34	0.57	0.00	0.00	0.00	407.85
Percent Reduction	4.17	19.05	10.94	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	11.31	9.23	104.77	0.23	42.75	8.00	23,678.67
TOTALS (tons/year, mitigated)	11.31	9.23	104.77	0.23	42.75	8.00	23,678.67
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	11.55	9.65	105.41	0.23	42.75	8.00	24,188.36
TOTALS (tons/year, mitigated)	11.54	9.57	105.34	0.23	42.75	8.00	24,086.52
Percent Reduction	0.09	0.83	0.07	0.00	0.00	0.00	0.42

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt B - Phase I and II - Cumulative Operation.urb924

Project Name: Ione - Alt B - Phase I and II - Cumulative Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.44	2.36	5.04	0.00	0.01	0.01	2,795.62
TOTALS (lbs/day, mitigated)	1.41	1.90	4.65	0.00	0.01	0.01	2,237.62
Percent Reduction	2.08	19.49	7.74	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	55.78	42.96	564.64	1.30	234.29	43.84	135,858.97
TOTALS (lbs/day, mitigated)	55.78	42.96	564.64	1.30	234.29	43.84	135,858.97
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	57.22	45.32	569.68	1.30	234.30	43.85	138,654.59
TOTALS (lbs/day, mitigated)	57.19	44.86	569.29	1.30	234.30	43.85	138,096.59
Percent Reduction	0.05	1.02	0.07	0.00	0.00	0.00	0.40

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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	0.17	2.32	1.95	0.00	0.00	0.00	2,790.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.02						
TOTALS (lbs/day, unmitigated)	1.44	2.36	5.04	0.00	0.01	0.01	2,795.62

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.14	1.86	1.56	0.00	0.00	0.00	2,232.00
Hearth - No Summer Emissions							
Landscape	0.25	0.04	3.09	0.00	0.01	0.01	5.62
Consumer Products	0.00						
Architectural Coatings	1.02						
TOTALS (lbs/day, mitigated)	1.41	1.90	4.65	0.00	0.01	0.01	2,237.62

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	6.67	4.37	57.37	0.13	23.81	4.45	13,804.58
Casino	49.11	38.59	507.27	1.17	210.48	39.39	122,054.39
TOTALS (lbs/day, unmitigated)	55.78	42.96	564.64	1.30	234.29	43.84	135,858.97

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	6.67	4.37	57.37	0.13	23.81	4.45	13,804.58
Casino	49.11	38.59	507.27	1.17	210.48	39.39	122,054.39
TOTALS (lbs/day, mitigated)	55.78	42.96	564.64	1.30	234.29	43.84	135,858.97

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 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
Hotel		2.05	rooms	250.00	512.50	13,923.80
Casino		92.95	1000 sq ft	48.75	4,531.31	123,108.51
					5,043.81	137,032.31

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.8	0.0	100.0	0.0
Light Truck < 3750 lbs	24.4	0.0	99.2	0.8
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	80.0	20.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	58.3	41.7
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	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	6.3	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	90.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)						
Hotel				5.0	2.5	92.5
Casino				5.0	2.5	92.5

ALTERNATIVE C

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt C - Near-Term Construction and Operation.urb924

Project Name: Ione Alt C - Near-Term Construction and Operation

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (tons/year unmitigated)	0.69	5.06	3.01	0.00	1.38	0.25	1.63	0.29	0.23	0.52	544.82
2009 TOTALS (tons/year mitigated)	0.61	4.49	3.01	0.00	1.09	0.06	1.16	0.23	0.06	0.29	544.82
Percent Reduction	10.47	11.30	0.00	0.00	20.49	75.63	29.08	20.48	75.65	45.21	0.00
2010 TOTALS (tons/year unmitigated)	0.62	2.56	1.91	0.00	0.00	0.16	0.16	0.00	0.15	0.15	281.40
2010 TOTALS (tons/year mitigated)	0.53	2.19	1.91	0.00	0.00	0.01	0.02	0.00	0.01	0.01	281.40
Percent Reduction	14.34	14.44	0.00	0.00	0.00	90.68	89.26	0.00	90.71	90.15	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.04	0.04	0.17	0.00	0.00	0.00	47.70
TOTALS (tons/year, mitigated)	0.04	0.03	0.17	0.00	0.00	0.00	38.21
Percent Reduction	0.00	25.00	0.00	NaN	NaN	NaN	19.90

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	21.86	31.30	264.11	0.14	25.89	5.04	14,116.52
TOTALS (tons/year, mitigated)	21.86	31.30	264.11	0.14	25.89	5.04	14,116.52
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	21.90	31.34	264.28	0.14	25.89	5.04	14,164.22
TOTALS (tons/year, mitigated)	21.90	31.33	264.28	0.14	25.89	5.04	14,154.73
Percent Reduction	0.00	0.03	0.00	0.00	0.00	0.00	0.07

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt C - Near-Term Construction and Operation.urb924

Project Name: Ione Alt C - Near-Term Construction and Operation

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
2009 TOTALS (lbs/day unmitigated)	14.85	180.62	75.66	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
2009 TOTALS (lbs/day mitigated)	14.85	179.40	75.66	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
2010 TOTALS (lbs/day unmitigated)	13.47	59.61	44.46	0.01	0.06	3.71	3.77	0.02	3.41	3.43	6,530.01
2010 TOTALS (lbs/day mitigated)	11.75	50.99	44.46	0.01	0.06	0.34	0.40	0.02	0.32	0.34	6,530.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.33	0.24	1.73	0.00	0.01	0.01	262.81
TOTALS (lbs/day, mitigated)	0.32	0.19	1.70	0.00	0.01	0.01	210.81
Percent Reduction	3.03	20.83	1.73	NaN	0.00	0.00	19.79

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82
TOTALS (lbs/day, mitigated)	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	106.27	146.49	1,412.58	0.79	141.85	27.61	80,874.63
TOTALS (lbs/day, mitigated)	106.26	146.44	1,412.55	0.79	141.85	27.61	80,822.63
Percent Reduction	0.01	0.03	0.00	0.00	0.00	0.00	0.06

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 6/1/2009-6/15/2009 Active Days: 13	11.97	**180.62**	64.71	**0.21**	**164.58**	**7.14**	**171.71**	**34.33**	**6.57**	**40.89**	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72

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Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/16/2009-7/16/2009 Active Days: 1	14.85	122.88	75.66	0.01	29.66	5.79	35.45	6.20	5.33	11.53	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	61.44	37.83	0.01	14.83	2.90	17.73	3.10	2.66	5.77	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	7.11	60.82	28.31	0.00	0.00	2.88	2.88	0.00	2.65	2.65	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.49	40.05	27.58	0.01	0.03	2.26	2.29	0.01	2.08	2.09	4,235.18
Building 08/01/2009-04/15/2010	5.49	40.05	27.58	0.01	0.03	2.26	2.29	0.01	2.08	2.09	4,235.18
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.09	1.14	1.00	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.08
Building Worker Trips	0.29	0.58	8.80	0.01	0.03	0.01	0.04	0.01	0.01	0.02	533.97
Time Slice 11/16/2009-12/31/2009 Active Days: 40	10.34	40.07	27.81	0.01	0.04	2.26	2.30	0.01	2.08	2.09	4,249.67
Building 08/01/2009-04/15/2010	5.49	40.05	27.58	0.01	0.03	2.26	2.29	0.01	2.08	2.09	4,235.18
Building Off Road Diesel	5.11	38.33	17.77	0.00	0.00	2.20	2.20	0.00	2.03	2.03	3,502.14
Building Vendor Trips	0.09	1.14	1.00	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.08
Building Worker Trips	0.29	0.58	8.80	0.01	0.03	0.01	0.04	0.01	0.01	0.02	533.97
Coating 11/15/2009-04/30/2010	4.84	0.02	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.48
Architectural Coating	4.83	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	0.02	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.48

Time Slice 1/1/2010-2/27/2010 Active Days: 50	10.00	37.54	26.85	0.01	0.04	2.09	2.13	0.01	1.92	1.94	4,250.07
Building 08/01/2009-04/15/2010	5.16	37.52	26.63	0.01	0.03	2.09	2.12	0.01	1.92	1.93	4,235.58
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.08	1.04	0.93	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.12
Building Worker Trips	0.27	0.54	8.23	0.01	0.03	0.01	0.04	0.01	0.01	0.02	534.32
Coating 11/15/2009-04/30/2010	4.84	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	4.83	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Time Slice 3/1/2010-4/15/2010 Active Days: 40	13.47	59.61	44.46	0.01	0.06	3.71	3.77	0.02	3.41	3.43	6,530.01
Asphalt 03/01/2010-05/31/2010	3.47	22.07	17.60	0.00	0.02	1.62	1.64	0.01	1.49	1.49	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.16	37.52	26.63	0.01	0.03	2.09	2.12	0.01	1.92	1.93	4,235.58
Building Off Road Diesel	4.81	35.94	17.47	0.00	0.00	2.04	2.04	0.00	1.87	1.87	3,502.14
Building Vendor Trips	0.08	1.04	0.93	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.12
Building Worker Trips	0.27	0.54	8.23	0.01	0.03	0.01	0.04	0.01	0.01	0.02	534.32
Coating 11/15/2009-04/30/2010	4.84	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	4.83	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49

Time Slice 4/16/2010-4/30/2010 Active Days: 13	8.31	22.08	17.83	0.00	0.02	1.62	1.64	0.01	1.49	1.50	2,294.43
Asphalt 03/01/2010-05/31/2010	3.47	22.07	17.60	0.00	0.02	1.62	1.64	0.01	1.49	1.49	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	4.84	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	4.83	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.47	22.07	17.60	0.00	0.02	1.62	1.64	0.01	1.49	1.49	2,279.93
Asphalt 03/01/2010-05/31/2010	3.47	22.07	17.60	0.00	0.02	1.62	1.64	0.01	1.49	1.49	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

2 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

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

Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

Acres to be Paved: 0.37

Off-Road Equipment:

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

2 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

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

Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

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

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

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

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

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

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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

Time Slice 6/1/2009-6/15/2009 Active Days: 13	11.97	179.40	64.71	**0.21**	**164.58**	6.55	171.12	**34.33**	6.02	40.35	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	179.40	64.71	0.21	164.58	6.55	171.12	34.33	6.02	40.35	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	6.93	4.78	0.00	0.00	0.05	0.05	0.00	0.04	0.04	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72
Time Slice 6/16/2009-7/15/2009 Active Days: 26	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61

Time Slice 7/16/2009-7/16/2009 Active Days: 1	**14.85**	104.64	**75.66**	0.01	2.15	0.46	2.61	0.46	0.42	0.88	11,624.63
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Mass Grading 06/16/2009-07/16/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
Mass 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
Mass Grading Worker Trips	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 7/17/2009-7/31/2009 Active Days: 13	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading 07/16/2009-07/31/2009	7.43	52.32	37.83	0.01	1.07	0.23	1.30	0.23	0.21	0.44	5,812.32
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	7.11	51.69	28.31	0.00	0.00	0.22	0.22	0.00	0.20	0.20	5,234.71
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	0.32	0.62	9.52	0.01	0.03	0.02	0.04	0.01	0.01	0.02	577.61
Time Slice 8/1/2009-11/14/2009 Active Days: 91	5.49	34.30	27.58	0.01	0.03	0.22	0.26	0.01	0.20	0.22	4,235.18
Building 08/01/2009-04/15/2010	5.49	34.30	27.58	0.01	0.03	0.22	0.26	0.01	0.20	0.22	4,235.18
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.09	1.14	1.00	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.08
Building Worker Trips	0.29	0.58	8.80	0.01	0.03	0.01	0.04	0.01	0.01	0.02	533.97

Time Slice 11/16/2009-12/31/2009 Active Days: 40	6.74	34.32	27.81	0.01	0.04	0.22	0.26	0.01	0.20	0.22	4,249.67
Building 08/01/2009-04/15/2010	5.49	34.30	27.58	0.01	0.03	0.22	0.26	0.01	0.20	0.22	4,235.18
Building Off Road Diesel	5.11	32.58	17.77	0.00	0.00	0.17	0.17	0.00	0.15	0.15	3,502.14
Building Vendor Trips	0.09	1.14	1.00	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.08
Building Worker Trips	0.29	0.58	8.80	0.01	0.03	0.01	0.04	0.01	0.01	0.02	533.97
Coating 11/15/2009-04/30/2010	1.25	0.02	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.48
Architectural Coating	1.24	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	0.02	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.48
Time Slice 1/1/2010-2/27/2010 Active Days: 50	8.28	32.14	26.85	0.01	0.04	0.21	0.24	0.01	0.19	0.20	4,250.07
Building 08/01/2009-04/15/2010	5.16	32.13	26.63	0.01	0.03	0.21	0.24	0.01	0.19	0.20	4,235.58
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.08	1.04	0.93	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.12
Building Worker Trips	0.27	0.54	8.23	0.01	0.03	0.01	0.04	0.01	0.01	0.02	534.32
Coating 11/15/2009-04/30/2010	3.12	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	3.11	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49

Time Slice 3/1/2010-4/15/2010 Active Days: 40	11.75	50.99	44.46	0.01	0.06	0.34	0.40	0.02	0.32	0.34	6,530.01
Asphalt 03/01/2010-05/31/2010	3.47	18.85	17.60	0.00	0.02	0.14	0.16	0.01	0.13	0.13	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	5.16	32.13	26.63	0.01	0.03	0.21	0.24	0.01	0.19	0.20	4,235.58
Building Off Road Diesel	4.81	30.55	17.47	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,502.14
Building Vendor Trips	0.08	1.04	0.93	0.00	0.01	0.04	0.05	0.00	0.04	0.04	199.12
Building Worker Trips	0.27	0.54	8.23	0.01	0.03	0.01	0.04	0.01	0.01	0.02	534.32
Coating 11/15/2009-04/30/2010	3.12	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	3.11	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Time Slice 4/16/2010-4/30/2010 Active Days: 13	6.59	18.86	17.83	0.00	0.02	0.14	0.16	0.01	0.13	0.14	2,294.43
Asphalt 03/01/2010-05/31/2010	3.47	18.85	17.60	0.00	0.02	0.14	0.16	0.01	0.13	0.13	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	3.12	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49
Architectural Coating	3.11	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.49

Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.47	18.85	17.60	0.00	0.02	0.14	0.16	0.01	0.13	0.13	2,279.93
Asphalt 03/01/2010-05/31/2010	3.47	18.85	17.60	0.00	0.02	0.14	0.16	0.01	0.13	0.13	2,279.93
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.01	0.15	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	21.29
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

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NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Loaders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Loaders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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	0.02	0.22	0.18	0.00	0.00	0.00	260.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.19						
TOTALS (lbs/day, unmitigated)	0.33	0.24	1.73	0.00	0.01	0.01	262.81

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Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.01	0.17	0.15	0.00	0.00	0.00	208.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.19						
TOTALS (lbs/day, mitigated)	0.32	0.19	1.70	0.00	0.01	0.01	210.81

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Commercial Increase Energy Efficiency Beyond Title 24	20.00

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82
TOTALS (lbs/day, unmitigated)	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82
TOTALS (lbs/day, mitigated)	105.94	146.25	1,410.85	0.79	141.84	27.60	80,611.82

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was NOT selected.

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
Casino		92.95	1000 sq ft	32.50	3,020.87	82,072.34
					3,020.87	82,072.34

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	2.4	97.0	0.6
Light Truck < 3750 lbs	24.5	4.1	86.5	9.4
Light Truck 3751-5750 lbs	19.6	1.5	98.0	0.5
Med Truck 5751-8500 lbs	9.1	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	64.0	36.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	11.1	22.2	66.7
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	67.2	32.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	5.0	85.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)						
Casino				5.0	2.5	92.5

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 28 miles

Home-based shop rural trip length changed from 7.1 miles to 28 miles

Home-based other rural trip length changed from 7.9 miles to 28 miles

Commercial-based commute rural trip length changed from 14.7 miles to 28 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 28 miles

Commercial-based customer rural trip length changed from 6.6 miles to 28 miles

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt C - Cumulative Operation.urb924

Project Name: Ione Alt C - Cumulative Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.04	0.04	0.17	0.00	0.00	0.00	47.70
TOTALS (tons/year, mitigated)	0.04	0.03	0.17	0.00	0.00	0.00	38.21
Percent Reduction	0.00	25.00	0.00	NaN	NaN	NaN	19.90

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	6.69	5.53	62.75	0.14	25.61	4.79	14,181.80
TOTALS (tons/year, mitigated)	6.69	5.53	62.75	0.14	25.61	4.79	14,181.80
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	6.73	5.57	62.92	0.14	25.61	4.79	14,229.50
TOTALS (tons/year, mitigated)	6.73	5.56	62.92	0.14	25.61	4.79	14,220.01
Percent Reduction	0.00	0.18	0.00	0.00	0.00	0.00	0.07

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt C - Cumulative Operation.urb924

Project Name: Ione Alt C - Cumulative Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.33	0.24	1.73	0.00	0.01	0.01	262.81
TOTALS (lbs/day, mitigated)	0.32	0.19	1.70	0.00	0.01	0.01	210.81
Percent Reduction	3.03	20.83	1.73	NaN	0.00	0.00	19.79

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59
TOTALS (lbs/day, mitigated)	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	33.07	25.97	339.91	0.78	140.33	26.27	81,632.40
TOTALS (lbs/day, mitigated)	33.06	25.92	339.88	0.78	140.33	26.27	81,580.40
Percent Reduction	0.03	0.19	0.01	0.00	0.00	0.00	0.06

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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	0.02	0.22	0.18	0.00	0.00	0.00	260.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.19						
TOTALS (lbs/day, unmitigated)	0.33	0.24	1.73	0.00	0.01	0.01	262.81

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.01	0.17	0.15	0.00	0.00	0.00	208.00
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.19						
TOTALS (lbs/day, mitigated)	0.32	0.19	1.70	0.00	0.01	0.01	210.81

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59
TOTALS (lbs/day, unmitigated)	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59
TOTALS (lbs/day, mitigated)	32.74	25.73	338.18	0.78	140.32	26.26	81,369.59

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 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
Casino		92.95	1000 sq ft	32.50	3,020.87	82,072.34
					3,020.87	82,072.34

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.8	0.0	100.0	0.0

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck < 3750 lbs	24.4	0.0	99.2	0.8
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	80.0	20.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	58.3	41.7
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	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	6.3	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	90.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Casino				5.0	2.5	92.5

ALTERNATIVE D

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt D - Near-Term Construction and Operation.urb924

Project Name: Ione Alt D - Near-Term Construction and Operation

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

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2009 TOTALS (tons/year unmitigated)	0.96	4.83	4.49	0.00	1.38	0.24	1.62	0.29	0.22	0.51	629.13
2009 TOTALS (tons/year mitigated)	0.69	4.34	4.49	0.00	1.10	0.07	1.17	0.23	0.07	0.30	629.13
Percent Reduction	28.37	9.99	0.00	0.00	20.40	68.98	27.57	20.33	69.03	41.34	0.00
2010 TOTALS (tons/year unmitigated)	1.36	2.74	3.07	0.00	0.01	0.16	0.17	0.00	0.15	0.15	373.62
2010 TOTALS (tons/year mitigated)	1.02	2.37	3.07	0.00	0.01	0.02	0.03	0.00	0.02	0.02	373.62
Percent Reduction	24.81	13.28	0.00	0.00	0.00	86.54	82.96	0.00	86.61	85.19	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.16	0.22	0.32	0.00	0.00	0.00	261.17
TOTALS (tons/year, mitigated)	0.15	0.17	0.29	0.00	0.00	0.00	208.99
Percent Reduction	6.25	22.73	9.37	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	54.69	74.67	630.89	0.33	61.50	11.97	33,554.31
TOTALS (tons/year, mitigated)	54.69	74.67	630.89	0.33	61.50	11.97	33,554.31
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	54.85	74.89	631.21	0.33	61.50	11.97	33,815.48
TOTALS (tons/year, mitigated)	54.84	74.84	631.18	0.33	61.50	11.97	33,763.30
Percent Reduction	0.02	0.07	0.00	0.00	0.00	0.00	0.15

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt D - Near-Term Construction and Operation.urb924

Project Name: Ione Alt D - Near-Term Construction and Operation

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
2009 TOTALS (lbs/day unmitigated)	24.78	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
2009 TOTALS (lbs/day mitigated)	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
2010 TOTALS (lbs/day unmitigated)	27.91	63.53	70.22	0.03	0.16	3.82	3.97	0.06	3.51	3.56	8,580.81
2010 TOTALS (lbs/day mitigated)	21.38	55.06	70.22	0.03	0.16	0.51	0.66	0.06	0.46	0.52	8,580.81

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.93	1.21	2.55	0.00	0.01	0.01	1,432.51
TOTALS (lbs/day, mitigated)	0.91	0.97	2.35	0.00	0.01	0.01	1,146.57
Percent Reduction	2.15	19.83	7.84	NaN	0.00	0.00	19.96

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12
TOTALS (lbs/day, mitigated)	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	264.53	350.17	3,367.03	1.87	336.98	65.60	193,038.63
TOTALS (lbs/day, mitigated)	264.51	349.93	3,366.83	1.87	336.98	65.60	192,752.69
Percent Reduction	0.01	0.07	0.01	0.00	0.00	0.00	0.15

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 6/1/2009-6/15/2009 Active Days: 13	11.97	**180.62**	64.71	**0.21**	**164.58**	7.14	**171.71**	**34.33**	**6.57**	**40.89**	**22,764.56**
Demolition 06/01/2009-06/15/2009	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72

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Time Slice 6/16/2009-7/15/2009 Active Days: 26	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Mass Grading 06/16/2009-07/16/2009	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	4.48	37.72	17.36	0.00	0.00	1.86	1.86	0.00	1.71	1.71	3,273.91
Mass 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
Mass Grading Worker Trips	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Time Slice 7/16/2009-7/16/2009 Active Days: 1	9.38	76.27	47.41	0.01	29.64	3.74	33.37	6.20	3.44	9.63	7,317.98
Fine Grading 07/16/2009-07/31/2009	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	4.48	37.72	17.36	0.00	0.00	1.86	1.86	0.00	1.71	1.71	3,273.91
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	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Mass Grading 06/16/2009-07/16/2009	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Mass Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Mass Grading Off Road Diesel	4.48	37.72	17.36	0.00	0.00	1.86	1.86	0.00	1.71	1.71	3,273.91
Mass 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
Mass Grading Worker Trips	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07

Time Slice 7/17/2009-7/31/2009 Active Days: 13	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Fine Grading 07/16/2009-07/31/2009	4.69	38.14	23.71	0.00	14.82	1.87	16.69	3.10	1.72	4.82	3,658.99
Fine Grading Dust	0.00	0.00	0.00	0.00	14.80	0.00	14.80	3.09	0.00	3.09	0.00
Fine Grading Off Road Diesel	4.48	37.72	17.36	0.00	0.00	1.86	1.86	0.00	1.71	1.71	3,273.91
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	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Time Slice 8/1/2009-11/14/2009 Active Days: 91	6.42	43.80	54.36	0.03	0.13	2.36	2.49	0.05	2.16	2.21	6,183.97
Building 08/01/2009-04/15/2010	6.42	43.80	54.36	0.03	0.13	2.36	2.49	0.05	2.16	2.21	6,183.97
Building Off Road Diesel	4.98	37.29	17.19	0.00	0.00	2.14	2.14	0.00	1.97	1.97	3,404.04
Building Vendor Trips	0.33	4.32	3.80	0.01	0.03	0.16	0.19	0.01	0.15	0.16	754.96
Building Worker Trips	1.11	2.19	33.37	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,024.97
Time Slice 11/16/2009-12/31/2009 Active Days: 40	24.78	43.86	55.27	0.03	0.13	2.36	2.49	0.05	2.17	2.21	6,238.90
Building 08/01/2009-04/15/2010	6.42	43.80	54.36	0.03	0.13	2.36	2.49	0.05	2.16	2.21	6,183.97
Building Off Road Diesel	4.98	37.29	17.19	0.00	0.00	2.14	2.14	0.00	1.97	1.97	3,404.04
Building Vendor Trips	0.33	4.32	3.80	0.01	0.03	0.16	0.19	0.01	0.15	0.16	754.96
Building Worker Trips	1.11	2.19	33.37	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,024.97
Coating 11/15/2009-04/30/2010	18.36	0.06	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.93
Architectural Coating	18.33	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	0.06	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.93

Time Slice 1/1/2010-2/27/2010 Active Days: 50	24.38	41.02	52.47	0.03	0.13	2.18	2.32	0.05	2.01	2.05	6,240.44
Building 08/01/2009-04/15/2010	6.02	40.97	51.62	0.03	0.13	2.18	2.31	0.05	2.00	2.05	6,185.48
Building Off Road Diesel	4.68	34.98	16.89	0.00	0.00	1.98	1.98	0.00	1.82	1.82	3,404.04
Building Vendor Trips	0.31	3.96	3.54	0.01	0.03	0.15	0.18	0.01	0.14	0.15	755.14
Building Worker Trips	1.03	2.03	31.19	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,026.30
Coating 11/15/2009-04/30/2010	18.36	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	18.33	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	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Time Slice 3/1/2010-4/15/2010 Active Days: 40	27.91	63.53	70.22	0.03	0.16	3.82	3.97	0.06	3.51	3.56	8,580.81
Asphalt 03/01/2010-05/31/2010	3.53	22.51	17.75	0.01	0.03	1.63	1.66	0.01	1.50	1.51	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	6.02	40.97	51.62	0.03	0.13	2.18	2.31	0.05	2.00	2.05	6,185.48
Building Off Road Diesel	4.68	34.98	16.89	0.00	0.00	1.98	1.98	0.00	1.82	1.82	3,404.04
Building Vendor Trips	0.31	3.96	3.54	0.01	0.03	0.15	0.18	0.01	0.14	0.15	755.14
Building Worker Trips	1.03	2.03	31.19	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,026.30
Coating 11/15/2009-04/30/2010	18.36	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	18.33	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	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97

Time Slice 4/16/2010-4/30/2010 Active Days: 13	21.89	22.56	18.59	0.01	0.03	1.63	1.66	0.01	1.50	1.51	2,395.33
Asphalt 03/01/2010-05/31/2010	3.53	22.51	17.75	0.01	0.03	1.63	1.66	0.01	1.50	1.51	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	18.36	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	18.33	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	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.53	22.51	17.75	0.01	0.03	1.63	1.66	0.01	1.50	1.51	2,340.36
Asphalt 03/01/2010-05/31/2010	3.53	22.51	17.75	0.01	0.03	1.63	1.66	0.01	1.50	1.51	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	21.47	10.63	0.00	0.00	1.60	1.60	0.00	1.47	1.47	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Phase Assumptions

Phase: Demolition 6/1/2009 - 6/15/2009 - Type Your Description Here

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 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

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

Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

Total Acres Disturbed: 30

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 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

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

Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

Acres to be Paved: 1.42

Off-Road Equipment:

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

2 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

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

Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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

2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

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

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

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

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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

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Time Slice 6/1/2009-6/15/2009 Active Days: 13	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Demolition 06/01/2009-06/15/2009	11.97	180.62	64.71	0.21	164.58	7.14	171.71	34.33	6.57	40.89	22,764.56
Fugitive Dust	0.00	0.00	0.00	0.00	163.80	0.00	163.80	34.07	0.00	34.07	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	10.59	172.19	55.69	0.20	0.76	6.49	7.25	0.25	5.97	6.22	21,807.55
Demo Worker Trips	0.14	0.28	4.23	0.00	0.01	0.01	0.02	0.00	0.01	0.01	256.72
Time Slice 6/16/2009-7/15/2009 Active Days: 26	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Mass Grading 06/16/2009-07/16/2009	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	4.48	32.06	17.36	0.00	0.00	0.14	0.14	0.00	0.13	0.13	3,273.91
Mass 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
Mass Grading Worker Trips	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07

Time Slice 7/16/2009-7/16/2009 Active Days: 1	9.38	64.96	47.41	0.01	2.13	0.30	2.43	0.45	0.27	0.72	7,317.98
Fine Grading 07/16/2009-07/31/2009	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	4.48	32.06	17.36	0.00	0.00	0.14	0.14	0.00	0.13	0.13	3,273.91
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	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Mass Grading 06/16/2009-07/16/2009	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Mass Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Mass Grading Off Road Diesel	4.48	32.06	17.36	0.00	0.00	0.14	0.14	0.00	0.13	0.13	3,273.91
Mass 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
Mass Grading Worker Trips	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Time Slice 7/17/2009-7/31/2009 Active Days: 13	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Fine Grading 07/16/2009-07/31/2009	4.69	32.48	23.71	0.00	1.06	0.15	1.21	0.23	0.14	0.36	3,658.99
Fine Grading Dust	0.00	0.00	0.00	0.00	1.04	0.00	1.04	0.22	0.00	0.22	0.00
Fine Grading Off Road Diesel	4.48	32.06	17.36	0.00	0.00	0.14	0.14	0.00	0.13	0.13	3,273.91
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	0.21	0.42	6.35	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.07
Time Slice 8/1/2009-11/14/2009 Active Days: 91	6.42	38.21	54.36	0.03	0.13	0.38	0.51	0.05	0.34	0.39	6,183.97
Building 08/01/2009-04/15/2010	6.42	38.21	54.36	0.03	0.13	0.38	0.51	0.05	0.34	0.39	6,183.97
Building Off Road Diesel	4.98	31.70	17.19	0.00	0.00	0.16	0.16	0.00	0.15	0.15	3,404.04
Building Vendor Trips	0.33	4.32	3.80	0.01	0.03	0.16	0.19	0.01	0.15	0.16	754.96
Building Worker Trips	1.11	2.19	33.37	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,024.97

Time Slice 11/16/2009-12/31/2009 Active Days: 40	11.14	38.27	55.27	0.03	0.13	0.38	0.51	0.05	0.35	0.39	6,238.90
Building 08/01/2009-04/15/2010	6.42	38.21	54.36	0.03	0.13	0.38	0.51	0.05	0.34	0.39	6,183.97
Building Off Road Diesel	4.98	31.70	17.19	0.00	0.00	0.16	0.16	0.00	0.15	0.15	3,404.04
Building Vendor Trips	0.33	4.32	3.80	0.01	0.03	0.16	0.19	0.01	0.15	0.16	754.96
Building Worker Trips	1.11	2.19	33.37	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,024.97
Coating 11/15/2009-04/30/2010	4.73	0.06	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.93
Architectural Coating	4.70	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	0.06	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.93
Time Slice 1/1/2010-2/27/2010 Active Days: 50	17.85	35.78	52.47	0.03	0.13	0.35	0.48	0.05	0.32	0.37	6,240.44
Building 08/01/2009-04/15/2010	6.02	35.72	51.62	0.03	0.13	0.35	0.48	0.05	0.32	0.37	6,185.48
Building Off Road Diesel	4.68	29.73	16.89	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,404.04
Building Vendor Trips	0.31	3.96	3.54	0.01	0.03	0.15	0.18	0.01	0.14	0.15	755.14
Building Worker Trips	1.03	2.03	31.19	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,026.30
Coating 11/15/2009-04/30/2010	11.83	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97

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Time Slice 3/1/2010-4/15/2010 Active Days: 40	21.38	55.06	70.22	0.03	0.16	0.51	0.66	0.06	0.46	0.52	8,580.81
Asphalt 03/01/2010-05/31/2010	3.53	19.29	17.75	0.01	0.03	0.15	0.18	0.01	0.14	0.15	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Building 08/01/2009-04/15/2010	6.02	35.72	51.62	0.03	0.13	0.35	0.48	0.05	0.32	0.37	6,185.48
Building Off Road Diesel	4.68	29.73	16.89	0.00	0.00	0.15	0.15	0.00	0.14	0.14	3,404.04
Building Vendor Trips	0.31	3.96	3.54	0.01	0.03	0.15	0.18	0.01	0.14	0.15	755.14
Building Worker Trips	1.03	2.03	31.19	0.02	0.10	0.05	0.16	0.04	0.05	0.08	2,026.30
Coating 11/15/2009-04/30/2010	11.83	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Time Slice 4/16/2010-4/30/2010 Active Days: 13	15.36	19.34	18.59	0.01	0.03	0.16	0.18	0.01	0.14	0.15	2,395.33
Asphalt 03/01/2010-05/31/2010	3.53	19.29	17.75	0.01	0.03	0.15	0.18	0.01	0.14	0.15	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55
Coating 11/15/2009-04/30/2010	11.83	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97
Architectural Coating	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.97

Time Slice 5/1/2010-5/31/2010 Active Days: 26	3.53	19.29	17.75	0.01	0.03	0.15	0.18	0.01	0.14	0.15	2,340.36
Asphalt 03/01/2010-05/31/2010	3.53	19.29	17.75	0.01	0.03	0.15	0.18	0.01	0.14	0.15	2,340.36
Paving Off-Gas	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.22	18.25	10.63	0.00	0.00	0.12	0.12	0.00	0.11	0.11	1,809.09
Paving On Road Diesel	0.04	0.59	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02	81.73
Paving Worker Trips	0.23	0.45	6.92	0.00	0.02	0.01	0.03	0.01	0.01	0.02	449.55

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/16/2009 - 7/31/2009 - Default Fine Site Grading Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Mass Grading 6/16/2009 - 7/16/2009 - Type Your Description Here

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Soil Stablizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 3/1/2010 - 5/31/2010 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 8/1/2009 - 4/15/2010 - Default Building Construction Description

For Cranes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cranes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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For Forklifts, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Forklifts, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Welders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Welders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Loaders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Loaders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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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	0.09	1.19	1.00	0.00	0.00	0.00	1,429.70
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.72						
TOTALS (lbs/day, unmitigated)	0.93	1.21	2.55	0.00	0.01	0.01	1,432.51

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.07	0.95	0.80	0.00	0.00	0.00	1,143.76
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.72						
TOTALS (lbs/day, mitigated)	0.91	0.97	2.35	0.00	0.01	0.01	1,146.57

Area Source Mitigation Measures Selected

Mitigation Description	Percent Reduction
Commercial Increase Energy Efficiency Beyond Title 24	20.00

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12
TOTALS (lbs/day, unmitigated)	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12
TOTALS (lbs/day, mitigated)	263.60	348.96	3,364.48	1.87	336.97	65.59	191,606.12

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was NOT selected.

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
Regnl shop. center		66.35	1000 sq ft	123.25	8,177.64	194,971.23
					8,177.64	194,971.23

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.7	2.4	97.0	0.6
Light Truck < 3750 lbs	24.5	4.1	86.5	9.4
Light Truck 3751-5750 lbs	19.6	1.5	98.0	0.5
Med Truck 5751-8500 lbs	9.1	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	2.5	0.0	64.0	36.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	41.7	58.3
Med-Heavy Truck 14,001-33,000 lbs	0.9	11.1	22.2	66.7
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	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	67.2	32.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	5.0	85.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)						
Regnl shop. center				2.0	1.0	97.0

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 28 miles

Home-based shop rural trip length changed from 7.1 miles to 28 miles

Home-based other rural trip length changed from 7.9 miles to 28 miles

Commercial-based commute rural trip length changed from 14.7 miles to 28 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 28 miles

Commercial-based customer rural trip length changed from 6.6 miles to 28 miles

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt D - Cumulative Operation.urb924

Project Name: Ione Alt D - Cumulative Operation

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

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.16	0.22	0.32	0.00	0.00	0.00	261.17
TOTALS (tons/year, mitigated)	0.15	0.17	0.29	0.00	0.00	0.00	208.99
Percent Reduction	6.25	22.73	9.37	NaN	NaN	NaN	19.98

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	16.68	13.20	149.82	0.33	60.84	11.39	33,707.97
TOTALS (tons/year, mitigated)	16.68	13.20	149.82	0.33	60.84	11.39	33,707.97
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	16.84	13.42	150.14	0.33	60.84	11.39	33,969.14
TOTALS (tons/year, mitigated)	16.83	13.37	150.11	0.33	60.84	11.39	33,916.96
Percent Reduction	0.06	0.37	0.02	0.00	0.00	0.00	0.15

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Ione\Ione - Alt D - Cumulative Operation.urb924

Project Name: Ione Alt D - Cumulative Operation

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

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.93	1.21	2.55	0.00	0.01	0.01	1,432.51
TOTALS (lbs/day, mitigated)	0.91	0.97	2.35	0.00	0.01	0.01	1,146.57
Percent Reduction	2.15	19.83	7.84	NaN	0.00	0.00	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57
TOTALS (lbs/day, mitigated)	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	81.97	62.67	808.79	1.86	333.37	62.40	194,831.08
TOTALS (lbs/day, mitigated)	81.95	62.43	808.59	1.86	333.37	62.40	194,545.14
Percent Reduction	0.02	0.38	0.02	0.00	0.00	0.00	0.15

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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	0.09	1.19	1.00	0.00	0.00	0.00	1,429.70
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.72						
TOTALS (lbs/day, unmitigated)	0.93	1.21	2.55	0.00	0.01	0.01	1,432.51

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.07	0.95	0.80	0.00	0.00	0.00	1,143.76
Hearth - No Summer Emissions							
Landscape	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Consumer Products	0.00						
Architectural Coatings	0.72						
TOTALS (lbs/day, mitigated)	0.91	0.97	2.35	0.00	0.01	0.01	1,146.57

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 35% to 0%

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57
TOTALS (lbs/day, unmitigated)	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Regnl shop. center	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57
TOTALS (lbs/day, mitigated)	81.04	61.46	806.24	1.86	333.36	62.39	193,398.57

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 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
Regnl shop. center		66.35	1000 sq ft	123.25	8,177.64	194,971.23
					8,177.64	194,971.23

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	32.8	0.0	100.0	0.0

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Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck < 3750 lbs	24.4	0.0	99.2	0.8
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	80.0	20.0
Lite-Heavy Truck 10,001-14,000 lbs	1.2	0.0	58.3	41.7
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	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	6.3	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	2.0	0.0	90.0	10.0

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)	28.0	28.0	28.0	28.0	28.0	28.0
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)

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Regnl shop. center				2.0	1.0	97.0