APPENDIX S

Revised Air Quality Technical Appendix

10/20/2008 2:35:15 PM

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\Northfork\Nothfork Alt. A Near-Term.urb924

Project Name: Northfork Alt. A Near-Term

Project Location: San Joaquin Valley APCD

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
2010 TOTALS (tons/year unmitigated)	1.46	5.49	4.85	0.00	2.13	0.32	2.46	0.45	0.30	0.74	716.25
2010 TOTALS (tons/year mitigated)	0.92	4.74	4.85	0.00	0.16	0.04	0.20	0.04	0.04	0.07	716.25
Percent Reduction	37.11	13.80	0.00	0.00	92.46	87.36	91.78	92.11	87.52	90.27	0.00
2011 TOTALS (tons/year unmitigated)	3.70	3.81	3.78	0.00	0.01	0.26	0.27	0.00	0.24	0.24	562.26
2011 TOTALS (tons/year mitigated)	2.91	3.30	3.78	0.00	0.01	0.04	0.05	0.00	0.03	0.04	562.26
Percent Reduction	21.26	13.35	0.00	0.00	0.00	86.18	82.78	0.00	86.35	85.00	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.43	0.59	0.78	0.00	0.00	0.00	711.79

10/20/2008 2:35:15 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	22.56	46.05	267.57	0.22	19.76	4.74	22,966.03

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	22.99	46.64	268.35	0.22	19.76	4.74	23,677.82

10/20/2008 2:36:08 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. A Near-Term.urb924

Project Name: Northfork Alt. A Near-Term

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

10/20/2008 2:36:08 PM

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2010 TOTALS (lbs/day unmitigated)	57.27	66.68	61.34	0.04	80.01	3.78	83.18	16.71	3.47	19.62	8,650.38
2010 TOTALS (lbs/day mitigated)	17.02	56.70	61.34	0.04	5.66	0.54	5.90	1.18	0.49	1.41	8,650.38
2011 TOTALS (lbs/day unmitigated)	59.42	71.24	69.17	0.04	0.19	4.87	5.06	0.07	4.47	4.54	10,280.05
2011 TOTALS (lbs/day mitigated)	47.23	61.74	69.17	0.04	0.19	0.67	0.86	0.07	0.61	0.67	10,280.05

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	2.52	3.29	5.82	0.00	0.02	0.02	3,903.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	114.82	223.33	1,423.93	1.29	108.25	25.95	131,049.05

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	117.34	226.62	1,429.75	1.29	108.27	25.97	134,952.11

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 6/1/2010-7/15/2010 Active Days: 39	7.92	66.68	35.62	0.00	**80.01**	3.16	**83.18**	**16.71**	2.91	**19.62**	6,265.21
Mass Grading 06/01/2010-07/15/2010	7.92	66.68	35.62	0.00	80.01	3.16	83.18	16.71	2.91	19.62	6,265.21
Mass Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Mass Grading Off Road Diesel	7.82	66.51	32.47	0.00	0.00	3.15	3.15	0.00	2.90	2.90	5,968.72
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	0.10	0.17	3.15	0.00	0.01	0.01	0.02	0.01	0.01	0.01	296.49
Time Slice 7/16/2010-7/31/2010 Active Days: 14	5.57	46.96	25.12	0.00	80.01	2.22	82.23	16.71	2.04	18.75	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	46.96	25.12	0.00	80.01	2.22	82.23	16.71	2.04	18.75	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	5.51	46.83	22.91	0.00	0.00	2.21	2.21	0.00	2.04	2.04	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 8/2/2010-11/30/2010 Active Days: 104	9.57	59.01	60.64	0.03	0.17	3.78	3.94	0.06	3.47	3.52	8,584.39
Building 08/02/2010-05/15/2011	9.57	59.01	60.64	0.03	0.17	3.78	3.94	0.06	3.47	3.52	8,584.39
Building Off Road Diesel	8.32	52.40	28.32	0.00	0.00	3.50	3.50	0.00	3.22	3.22	4,990.93
Building Vendor Trips	0.39	5.08	4.36	0.01	0.04	0.20	0.23	0.01	0.18	0.19	958.30
Building Worker Trips	0.86	1.54	27.96	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,635.16

Time Slice 12/1/2010-12/31/2010 Active Days: 27	57.27	59.05	61.34	0.04	0.17	3.78	3.95	0.06	3.47	3.53	8,650.38
Building 08/02/2010-05/15/2011	9.57	59.01	60.64	0.03	0.17	3.78	3.94	0.06	3.47	3.52	8,584.39
Building Off Road Diesel	8.32	52.40	28.32	0.00	0.00	3.50	3.50	0.00	3.22	3.22	4,990.93
Building Vendor Trips	0.39	5.08	4.36	0.01	0.04	0.20	0.23	0.01	0.18	0.19	958.30
Building Worker Trips	0.86	1.54	27.96	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,635.16
Coating 12/01/2010-05/31/2011	47.70	0.04	0.70	0.00	0.00	0.00	0.01	0.00	0.00	0.00	65.98
Architectural Coating	47.67	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	0.04	0.70	0.00	0.00	0.00	0.01	0.00	0.00	0.00	65.98
Time Slice 1/1/2011-2/28/2011 Active Days: 50	56.56	55.22	58.10	0.04	0.17	3.56	3.73	0.06	3.27	3.33	8,651.85
Building 08/02/2010-05/15/2011	8.87	55.18	57.45	0.03	0.17	3.56	3.72	0.06	3.27	3.33	8,585.83
Building Off Road Diesel	7.72	49.20	27.76	0.00	0.00	3.31	3.31	0.00	3.04	3.04	4,990.93
Building Vendor Trips	0.37	4.60	4.05	0.01	0.04	0.18	0.22	0.01	0.16	0.18	958.53
Building Worker Trips	0.78	1.38	25.65	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,636.36
Coating 12/01/2010-05/31/2011	47.69	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	47.67	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01

Time Slice 3/1/2011-5/14/2011 Active Days: 65	**59.42**	**71.24**	**69.17**	**0.04**	0.19	**4.87**	5.06	0.07	**4.47**	4.54	**10,280.05**
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	8.87	55.18	57.45	0.03	0.17	3.56	3.72	0.06	3.27	3.33	8,585.83
Building Off Road Diesel	7.72	49.20	27.76	0.00	0.00	3.31	3.31	0.00	3.04	3.04	4,990.93
Building Vendor Trips	0.37	4.60	4.05	0.01	0.04	0.18	0.22	0.01	0.16	0.18	958.53
Building Worker Trips	0.78	1.38	25.65	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,636.36
Coating 12/01/2010-05/31/2011	47.69	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	47.67	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Time Slice 5/16/2011-5/31/2011 Active Days: 14	50.56	16.06	11.71	0.01	0.02	1.31	1.33	0.01	1.20	1.21	1,694.22
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	47.69	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	47.67	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01

Phase Assumptions

Phase: Fine Grading 7/16/2010 - 8/1/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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

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

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

Phase: Mass Grading 6/1/2010 - 7/15/2010 - Type Your Description Here

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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

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

2 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 3/1/2011 - 5/31/2011 - Default Paving Description

Acres to be Paved: 10

Off-Road Equipment:

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

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

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

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

Phase: Building Construction 8/2/2010 - 5/15/2011 - Default Building Construction Description

Off-Road Equipment:

2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

4 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 6 hours per day

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

4 Rough Terrain Forklifts (93 hp) operating at a 0.6 load factor for 8 hours per day

2 Rubber Tired Loaders (164 hp) operating at a 0.54 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

2 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 12/1/2010 - 5/31/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

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 6/1/2010-7/15/2010 Active Days: 39	7.92	56.70	35.62	0.00	5.66	0.24	5.90	1.18	0.22	1.41	6,265.21
Mass Grading 06/01/2010-07/15/2010	7.92	56.70	35.62	0.00	5.66	0.24	5.90	1.18	0.22	1.41	6,265.21
Mass Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Mass Grading Off Road Diesel	7.82	56.53	32.47	0.00	0.00	0.24	0.24	0.00	0.22	0.22	5,968.72
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	0.10	0.17	3.15	0.00	0.01	0.01	0.02	0.01	0.01	0.01	296.49
Time Slice 7/16/2010-7/31/2010 Active Days: 14	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Fine Grading Off Road Diesel	5.51	39.81	22.91	0.00	0.00	0.17	0.17	0.00	0.15	0.15	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 8/2/2010-11/30/2010 Active Days: 104	9.57	51.15	60.64	0.03	0.17	0.53	0.70	0.06	0.48	0.54	8,584.39
Building 08/02/2010-05/15/2011	9.57	51.15	60.64	0.03	0.17	0.53	0.70	0.06	0.48	0.54	8,584.39
Building Off Road Diesel	8.32	44.54	28.32	0.00	0.00	0.26	0.26	0.00	0.24	0.24	4,990.93
Building Vendor Trips	0.39	5.08	4.36	0.01	0.04	0.20	0.23	0.01	0.18	0.19	958.30
Building Worker Trips	0.86	1.54	27.96	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,635.16

Time Slice 12/1/2010-12/31/2010 Active Days: 27	17.02	51.19	61.34	0.04	0.17	0.54	0.70	0.06	0.49	0.55	8,650.38
Building 08/02/2010-05/15/2011	9.57	51.15	60.64	0.03	0.17	0.53	0.70	0.06	0.48	0.54	8,584.39
Building Off Road Diesel	8.32	44.54	28.32	0.00	0.00	0.26	0.26	0.00	0.24	0.24	4,990.93
Building Vendor Trips	0.39	5.08	4.36	0.01	0.04	0.20	0.23	0.01	0.18	0.19	958.30
Building Worker Trips	0.86	1.54	27.96	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,635.16
Coating 12/01/2010-05/31/2011	7.45	0.04	0.70	0.00	0.00	0.00	0.01	0.00	0.00	0.00	65.98
Architectural Coating	7.43	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	0.04	0.70	0.00	0.00	0.00	0.01	0.00	0.00	0.00	65.98
Time Slice 1/1/2011-2/28/2011 Active Days: 50	44.37	47.84	58.10	0.04	0.17	0.50	0.67	0.06	0.45	0.51	8,651.85
Building 08/02/2010-05/15/2011	8.87	47.80	57.45	0.03	0.17	0.50	0.67	0.06	0.45	0.51	8,585.83
Building Off Road Diesel	7.72	41.82	27.76	0.00	0.00	0.25	0.25	0.00	0.23	0.23	4,990.93
Building Vendor Trips	0.37	4.60	4.05	0.01	0.04	0.18	0.22	0.01	0.16	0.18	958.53
Building Worker Trips	0.78	1.38	25.65	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,636.36
Coating 12/01/2010-05/31/2011	35.50	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	35.48	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01

10/20/2008 2:36:09 PM

Time Slice 3/1/2011-5/14/2011 Active Days: 65	47.23	61.74	**69.17**	**0.04**	0.19	0.67	0.86	0.07	0.61	0.67	**10,280.05**
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	8.87	47.80	57.45	0.03	0.17	0.50	0.67	0.06	0.45	0.51	8,585.83
Building Off Road Diesel	7.72	41.82	27.76	0.00	0.00	0.25	0.25	0.00	0.23	0.23	4,990.93
Building Vendor Trips	0.37	4.60	4.05	0.01	0.04	0.18	0.22	0.01	0.16	0.18	958.53
Building Worker Trips	0.78	1.38	25.65	0.03	0.13	0.07	0.20	0.05	0.06	0.11	2,636.36
Coating 12/01/2010-05/31/2011	35.50	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	35.48	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Time Slice 5/16/2011-5/31/2011 Active Days: 14	38.36	13.94	11.71	0.01	0.02	0.17	0.19	0.01	0.15	0.16	1,694.22
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	35.50	0.03	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01
Architectural Coating	35.48	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	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	66.01

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/16/2010 - 8/1/2010 - 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 6/1/2010 - 7/15/2010 - 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 3/1/2011 - 5/31/2011 - 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%

The following mitigation measures apply to Phase: Building Construction 8/2/2010 - 5/15/2011 - 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 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:

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

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

PM10: 85% PM25: 85%

10/20/2008 2:36:09 PM

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

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

For Rough Terrain Forklifts, 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%

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%

The following mitigation measures apply to Phase: Architectural Coating 12/1/2010 - 5/31/2011 - 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%

10/20/2008 2:36:09 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.24	3.25	2.73	0.00	0.01	0.01	3,897.44
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	2.03						
TOTALS (lbs/day, unmitigated)	2.52	3.29	5.82	0.00	0.02	0.02	3,903.06

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	7.87	11.73	74.96	0.07	5.68	1.36	6,884.51
Casino	106.95	211.60	1,348.97	1.22	102.57	24.59	124,164.54
TOTALS (lbs/day, unmitigated)	114.82	223.33	1,423.93	1.29	108.25	25.95	131,049.05

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Temperature (F): 85 Season: Summer

10/20/2008 2:36:09 PM

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		3.00	rooms	200.00	600.00	6,437.34
Casino		43.80	1000 sq ft	247.18	10,826.48	116,156.26
					11,426.48	122,593.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.4	1.2	98.6	0.2
Light Truck < 3750 lbs	12.1	2.5	90.9	6.6
Light Truck 3751-5750 lbs	21.1	0.9	98.6	0.5
Med Truck 5751-8500 lbs	11.9	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	1.3	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.8	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	3.9	64.1	35.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

10/20/2008 2:36:09 PM

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5
Casino				2.0	1.0	97.0

Operational Changes to Defaults

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

Home-based work urban trip length changed from 10.8 miles to 12.6 miles

Home-based work rural trip length changed from 16.8 miles to 12.6 miles

Home-based shop urban trip length changed from 7.3 miles to 12.6 miles

Home-based shop rural trip length changed from 7.1 miles to 12.6 miles

Home-based other urban trip length changed from 7.5 miles to 12.6 miles

Home-based other rural trip length changed from 7.9 miles to 12.6 miles

Commercial-based commute urban trip length changed from 9.5 miles to 12.6 miles

Commercial-based commute rural trip length changed from 14.7 miles to 12.6 miles

Commercial-based non-work urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 12.6 miles

Commercial-based customer urban trip length changed from 7.35 miles to 12.6 miles

Operational Changes to Defaults

Commercial-based customer rural trip length changed from 6.6 miles to 12.6 miles

10/20/2008 2:42:34 PM

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\Northfork\Nothfork Alt. B Near-Term.urb924

Project Name: Northfork Alt. A Near-Term

Project Location: San Joaquin Valley APCD

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
2010 TOTALS (tons/year unmitigated)	1.14	5.30	3.89	0.00	2.13	0.32	2.44	0.44	0.29	0.74	609.28
2010 TOTALS (tons/year mitigated)	0.84	4.54	3.89	0.00	0.16	0.03	0.19	0.03	0.03	0.06	609.28
Percent Reduction	26.19	14.32	0.00	0.00	92.67	89.59	92.27	92.48	89.68	91.37	0.00
2011 TOTALS (tons/year unmitigated)	2.28	3.65	2.99	0.00	0.01	0.25	0.26	0.00	0.23	0.23	466.74
2011 TOTALS (tons/year mitigated)	1.85	3.14	2.99	0.00	0.01	0.03	0.03	0.00	0.03	0.03	466.74
Percent Reduction	18.91	13.92	0.00	0.00	0.00	88.47	86.35	0.00	88.57	87.74	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.23	0.23	0.33	0.00	0.00	0.00	277.64

10/20/2008 2:42:34 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	16.26	33.54	194.84	0.16	14.39	3.45	16,725.01

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	16.49	33.77	195.17	0.16	14.39	3.45	17,002.65

10/20/2008 2:42:49 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. B Near-Term.urb924

Project Name: Northfork Alt. A Near-Term

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

10/20/2008 2:42:49 PM

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2010 TOTALS (lbs/day unmitigated)	35.10	66.68	46.39	0.02	80.01	3.65	83.18	16.71	3.36	19.62	6,993.52
2010 TOTALS (lbs/day mitigated)	13.08	56.70	46.39	0.02	5.66	0.41	5.90	1.18	0.38	1.41	6,993.52
2011 TOTALS (lbs/day unmitigated)	37.31	68.52	55.43	0.02	0.11	4.75	4.87	0.04	4.37	4.41	8,622.53
2011 TOTALS (lbs/day mitigated)	30.64	59.01	55.43	0.02	0.11	0.55	0.67	0.04	0.50	0.54	8,622.53

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.32	1.29	2.61	0.00	0.01	0.01	1,522.73

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	82.21	162.64	1,036.86	0.93	78.84	18.90	95,436.61

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	83.53	163.93	1,039.47	0.93	78.85	18.91	96,959.34

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 6/1/2010-7/15/2010 Active Days: 39	7.92	66.68	35.62	0.00	**80.01**	3.16	**83.18**	**16.71**	2.91	**19.62**	6,265.21
Mass Grading 06/01/2010-07/15/2010	7.92	66.68	35.62	0.00	80.01	3.16	83.18	16.71	2.91	19.62	6,265.21
Mass Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Mass Grading Off Road Diesel	7.82	66.51	32.47	0.00	0.00	3.15	3.15	0.00	2.90	2.90	5,968.72
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	0.10	0.17	3.15	0.00	0.01	0.01	0.02	0.01	0.01	0.01	296.49
Time Slice 7/16/2010-7/31/2010 Active Days: 14	5.57	46.96	25.12	0.00	80.01	2.22	82.23	16.71	2.04	18.75	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	46.96	25.12	0.00	80.01	2.22	82.23	16.71	2.04	18.75	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	5.51	46.83	22.91	0.00	0.00	2.21	2.21	0.00	2.04	2.04	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 8/2/2010-11/30/2010 Active Days: 104	9.00	56.02	46.00	0.02	0.09	3.65	3.74	0.03	3.36	3.39	6,957.41
Building 08/02/2010-05/15/2011	9.00	56.02	46.00	0.02	0.09	3.65	3.74	0.03	3.36	3.39	6,957.41
Building Off Road Diesel	8.32	52.40	28.32	0.00	0.00	3.50	3.50	0.00	3.22	3.22	4,990.93
Building Vendor Trips	0.22	2.78	2.39	0.00	0.02	0.11	0.13	0.01	0.10	0.11	524.42
Building Worker Trips	0.47	0.84	15.30	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.06

Time Slice 12/1/2010-12/31/2010 Active Days: 27	35.10	56.04	46.39	0.02	0.09	3.65	3.75	0.03	3.36	3.39	6,993.52
Building 08/02/2010-05/15/2011	9.00	56.02	46.00	0.02	0.09	3.65	3.74	0.03	3.36	3.39	6,957.41
Building Off Road Diesel	8.32	52.40	28.32	0.00	0.00	3.50	3.50	0.00	3.22	3.22	4,990.93
Building Vendor Trips	0.22	2.78	2.39	0.00	0.02	0.11	0.13	0.01	0.10	0.11	524.42
Building Worker Trips	0.47	0.84	15.30	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.06
Coating 12/01/2010-05/31/2011	26.10	0.02	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.11
Architectural Coating	26.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.11
Time Slice 1/1/2011-2/28/2011 Active Days: 50	34.45	52.49	44.36	0.02	0.09	3.45	3.54	0.03	3.17	3.20	6,994.32
Building 08/02/2010-05/15/2011	8.35	52.47	44.01	0.02	0.09	3.44	3.53	0.03	3.16	3.20	6,958.20
Building Off Road Diesel	7.72	49.20	27.76	0.00	0.00	3.31	3.31	0.00	3.04	3.04	4,990.93
Building Vendor Trips	0.20	2.52	2.22	0.00	0.02	0.10	0.12	0.01	0.09	0.10	524.55
Building Worker Trips	0.43	0.76	14.04	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.72
Coating 12/01/2010-05/31/2011	26.10	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	26.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13

10/20/2008 2:42:50 PM

Time Slice 3/1/2011-5/14/2011 Active Days: 65	**37.31**	**68.52**	**55.43**	**0.02**	0.11	**4.75**	4.87	0.04	**4.37**	4.41	**8,622.53**
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	8.35	52.47	44.01	0.02	0.09	3.44	3.53	0.03	3.16	3.20	6,958.20
Building Off Road Diesel	7.72	49.20	27.76	0.00	0.00	3.31	3.31	0.00	3.04	3.04	4,990.93
Building Vendor Trips	0.20	2.52	2.22	0.00	0.02	0.10	0.12	0.01	0.09	0.10	524.55
Building Worker Trips	0.43	0.76	14.04	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.72
Coating 12/01/2010-05/31/2011	26.10	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	26.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Time Slice 5/16/2011-5/31/2011 Active Days: 14	28.96	16.04	11.42	0.01	0.02	1.31	1.33	0.01	1.20	1.21	1,664.33
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	26.10	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	26.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13

Phase Assumptions

Phase: Fine Grading 7/16/2010 - 8/1/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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

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

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

Phase: Mass Grading 6/1/2010 - 7/15/2010 - Type Your Description Here

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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

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

2 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 3/1/2011 - 5/31/2011 - Default Paving Description

Acres to be Paved: 10

Off-Road Equipment:

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

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

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

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

Phase: Building Construction 8/2/2010 - 5/15/2011 - Default Building Construction Description

Off-Road Equipment:

2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

4 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 6 hours per day

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

4 Rough Terrain Forklifts (93 hp) operating at a 0.6 load factor for 8 hours per day

2 Rubber Tired Loaders (164 hp) operating at a 0.54 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

2 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 12/1/2010 - 5/31/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

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 6/1/2010-7/15/2010 Active Days: 39	7.92	56.70	35.62	0.00	5.66	0.24	5.90	1.18	0.22	1.41	6,265.21
Mass Grading 06/01/2010-07/15/2010	7.92	56.70	35.62	0.00	5.66	0.24	5.90	1.18	0.22	1.41	6,265.21
Mass Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Mass Grading Off Road Diesel	7.82	56.53	32.47	0.00	0.00	0.24	0.24	0.00	0.22	0.22	5,968.72
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	0.10	0.17	3.15	0.00	0.01	0.01	0.02	0.01	0.01	0.01	296.49
Time Slice 7/16/2010-7/31/2010 Active Days: 14	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Fine Grading Off Road Diesel	5.51	39.81	22.91	0.00	0.00	0.17	0.17	0.00	0.15	0.15	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 8/2/2010-11/30/2010 Active Days: 104	9.00	48.16	46.00	0.02	0.09	0.41	0.50	0.03	0.37	0.41	6,957.41
Building 08/02/2010-05/15/2011	9.00	48.16	46.00	0.02	0.09	0.41	0.50	0.03	0.37	0.41	6,957.41
Building Off Road Diesel	8.32	44.54	28.32	0.00	0.00	0.26	0.26	0.00	0.24	0.24	4,990.93
Building Vendor Trips	0.22	2.78	2.39	0.00	0.02	0.11	0.13	0.01	0.10	0.11	524.42
Building Worker Trips	0.47	0.84	15.30	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.06

Time Slice 12/1/2010-12/31/2010 Active Days: 27	13.08	48.18	46.39	0.02	0.09	0.41	0.50	0.03	0.38	0.41	6,993.52
Building 08/02/2010-05/15/2011	9.00	48.16	46.00	0.02	0.09	0.41	0.50	0.03	0.37	0.41	6,957.41
Building Off Road Diesel	8.32	44.54	28.32	0.00	0.00	0.26	0.26	0.00	0.24	0.24	4,990.93
Building Vendor Trips	0.22	2.78	2.39	0.00	0.02	0.11	0.13	0.01	0.10	0.11	524.42
Building Worker Trips	0.47	0.84	15.30	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.06
Coating 12/01/2010-05/31/2011	4.08	0.02	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.11
Architectural Coating	4.06	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	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.11
Time Slice 1/1/2011-2/28/2011 Active Days: 50	27.78	45.11	44.36	0.02	0.09	0.39	0.48	0.03	0.35	0.38	6,994.32
Building 08/02/2010-05/15/2011	8.35	45.09	44.01	0.02	0.09	0.39	0.48	0.03	0.35	0.38	6,958.20
Building Off Road Diesel	7.72	41.82	27.76	0.00	0.00	0.25	0.25	0.00	0.23	0.23	4,990.93
Building Vendor Trips	0.20	2.52	2.22	0.00	0.02	0.10	0.12	0.01	0.09	0.10	524.55
Building Worker Trips	0.43	0.76	14.04	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.72
Coating 12/01/2010-05/31/2011	19.43	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	19.42	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	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13

Time Slice 3/1/2011-5/14/2011 Active Days: 65	30.64	59.01	**55.43**	**0.02**	0.11	0.55	0.67	0.04	0.50	0.54	**8,622.53**
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	8.35	45.09	44.01	0.02	0.09	0.39	0.48	0.03	0.35	0.38	6,958.20
Building Off Road Diesel	7.72	41.82	27.76	0.00	0.00	0.25	0.25	0.00	0.23	0.23	4,990.93
Building Vendor Trips	0.20	2.52	2.22	0.00	0.02	0.10	0.12	0.01	0.09	0.10	524.55
Building Worker Trips	0.43	0.76	14.04	0.01	0.07	0.04	0.11	0.03	0.03	0.06	1,442.72
Coating 12/01/2010-05/31/2011	19.43	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	19.42	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	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Time Slice 5/16/2011-5/31/2011 Active Days: 14	22.29	13.92	11.42	0.01	0.02	0.17	0.19	0.01	0.15	0.16	1,664.33
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	19.43	0.02	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13
Architectural Coating	19.42	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	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.13

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/16/2010 - 8/1/2010 - 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 6/1/2010 - 7/15/2010 - Type Your Description Here

10/20/2008 2:42:50 PM

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 3/1/2011 - 5/31/2011 - 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%

The following mitigation measures apply to Phase: Building Construction 8/2/2010 - 5/15/2011 - 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 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:

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

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

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

For Rough Terrain Forklifts, 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%

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%

The following mitigation measures apply to Phase: Architectural Coating 12/1/2010 - 5/31/2011 - 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%

10/20/2008 2:42:50 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.09	1.27	1.06	0.00	0.00	0.00	1,519.92
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	1.11						
TOTALS (lbs/day, unmitigated)	1.32	1.29	2.61	0.00	0.01	0.01	1,522.73

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	82.21	162.64	1,036.86	0.93	78.84	18.90	95,436.61
TOTALS (lbs/day, unmitigated)	82.21	162.64	1,036.86	0.93	78.84	18.90	95,436.61

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 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		43.80	1000 sq ft	189.99	8,321.56	89,281.21
					8,321.56	89,281.21

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.4	1.2	98.6	0.2
Light Truck < 3750 lbs	12.1	2.5	90.9	6.6
Light Truck 3751-5750 lbs	21.1	0.9	98.6	0.5
Med Truck 5751-8500 lbs	11.9	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	1.3	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.8	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	3.9	64.1	35.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				2.0	1.0	97.0

Operational Changes to Defaults

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

Home-based work urban trip length changed from 10.8 miles to 12.6 miles

Home-based work rural trip length changed from 16.8 miles to 12.6 miles

Home-based shop urban trip length changed from 7.3 miles to 12.6 miles

Home-based shop rural trip length changed from 7.1 miles to 12.6 miles

Home-based other urban trip length changed from 7.5 miles to 12.6 miles

Home-based other rural trip length changed from 7.9 miles to 12.6 miles

Commercial-based commute urban trip length changed from 9.5 miles to 12.6 miles

Commercial-based commute rural trip length changed from 14.7 miles to 12.6 miles

Commercial-based non-work urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 12.6 miles

Commercial-based customer urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based customer rural trip length changed from 6.6 miles to 12.6 miles

10/20/2008 2:43:21 PM

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\Northfork\Nothfork Alt. B Cumulative.urb924

Project Name: Northfork Alt. A Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.23	0.23	0.33	0.00	0.00	0.00	277.64

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	5.97	7.32	61.80	0.16	13.89	3.00	16,589.05

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	6.20	7.55	62.13	0.16	13.89	3.00	16,866.69

10/20/2008 2:44:25 PM

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\Northfork\Nothfork Alt. C Near-Term.urb924

Project Name: Northfork Alt. C Near-Term

Project Location: San Joaquin Valley APCD

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
2010 TOTALS (tons/year unmitigated)	1.30	5.47	4.34	0.00	2.01	0.34	2.35	0.42	0.32	0.74	650.65
2010 TOTALS (tons/year mitigated)	0.93	4.69	4.34	0.00	0.15	0.04	0.19	0.03	0.03	0.07	650.65
Percent Reduction	28.50	14.18	0.00	0.00	92.59	89.19	92.09	92.34	89.29	91.03	0.00
2011 TOTALS (tons/year unmitigated)	2.78	4.04	3.50	0.00	0.01	0.28	0.29	0.00	0.26	0.26	529.60
2011 TOTALS (tons/year mitigated)	2.25	3.48	3.50	0.00	0.01	0.03	0.04	0.00	0.03	0.03	529.60
Percent Reduction	19.29	13.85	0.00	0.00	0.00	88.29	86.03	0.00	88.40	87.51	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.32	0.43	0.91	0.00	0.00	0.00	502.74
TOTALS (tons/year, mitigated)	0.31	0.34	0.84	0.00	0.00	0.00	402.39
Percent Reduction	3.13	20.93	7.69	NaN	NaN	NaN	19.96

10/20/2008 2:44:25 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	21.58	39.05	231.60	0.18	16.41	3.95	19,153.59
TOTALS (tons/year, mitigated)	21.58	39.05	231.60	0.18	16.41	3.95	19,153.59
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 (tons/year, unmitigated)	21.90	39.48	232.51	0.18	16.41	3.95	19,656.33
TOTALS (tons/year, mitigated)	21.89	39.39	232.44	0.18	16.41	3.95	19,555.98
Percent Reduction	0.05	0.23	0.03	0.00	0.00	0.00	0.51

10/20/2008 2:44:45 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

Project Name: Northfork Alt. C Near-Term

Project Location: San Joaquin Valley APCD

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
2010 TOTALS (lbs/day unmitigated)	43.28	63.22	55.69	0.02	80.01	4.26	82.70	16.71	3.92	19.19	8,085.43
2010 TOTALS (lbs/day mitigated)	15.80	54.42	55.69	0.02	5.65	0.49	5.86	1.18	0.45	1.37	8,085.43
2011 TOTALS (lbs/day unmitigated)	45.35	75.33	64.27	0.03	0.14	5.33	5.46	0.05	4.90	4.94	9,714.64
2011 TOTALS (lbs/day mitigated)	37.02	64.92	64.27	0.03	0.14	0.63	0.76	0.05	0.57	0.62	9,714.64

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	2.05	2.37	8.10	0.00	0.02	0.02	2,760.44
TOTALS (lbs/day, mitigated)	2.01	1.91	7.72	0.00	0.02	0.02	2,210.60
Percent Reduction	1.95	19.41	4.69	NaN	0.00	0.00	19.92

10/20/2008 2:44:45 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	108.30	189.41	1,220.81	1.07	89.92	21.61	109,273.92
TOTALS (lbs/day, mitigated)	108.30	189.41	1,220.81	1.07	89.92	21.61	109,273.92
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)	110.35	191.78	1,228.91	1.07	89.94	21.63	112,034.36
TOTALS (lbs/day, mitigated)	110.31	191.32	1,228.53	1.07	89.94	21.63	111,484.52
Percent Reduction	0.04	0.24	0.03	0.00	0.00	0.00	0.49

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 6/1/2010-7/15/2010 Active Days: 39	6.62	54.98	29.86	0.00	**80.01**	2.69	**82.70**	**16.71**	2.48	**19.19**	5,082.37
Mass Grading 06/01/2010-07/15/2010	6.62	54.98	29.86	0.00	80.01	2.69	82.70	16.71	2.48	19.19	5,082.37
Mass Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Mass Grading Off Road Diesel	6.55	54.86	27.66	0.00	0.00	2.69	2.69	0.00	2.47	2.47	4,874.83
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	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54

Time Slice 7/16/2010-7/30/2010 Active Days: 11	5.57	46.96	25.12	0.00	**80.01**	2.22	82.23	**16.71**	2.04	18.75	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	46.96	25.12	0.00	80.01	2.22	82.23	16.71	2.04	18.75	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	5.51	46.83	22.91	0.00	0.00	2.21	2.21	0.00	2.04	2.04	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 8/2/2010-11/30/2010 Active Days: 104	10.72	63.20	55.21	0.02	0.11	4.26	4.38	0.04	3.92	3.96	8,040.39
Building 08/02/2010-05/15/2011	10.72	63.20	55.21	0.02	0.11	4.26	4.38	0.04	3.92	3.96	8,040.39
Building Off Road Diesel	9.86	58.68	33.14	0.00	0.00	4.08	4.08	0.00	3.75	3.75	5,587.33
Building Vendor Trips	0.27	3.47	2.98	0.01	0.02	0.14	0.16	0.01	0.12	0.13	654.18
Building Worker Trips	0.59	1.05	19.09	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,798.87
Time Slice 12/1/2010-12/31/2010 Active Days: 27	43.28	63.22	55.69	0.02	0.11	4.26	4.38	0.04	3.92	3.96	8,085.43
Building 08/02/2010-05/15/2011	10.72	63.20	55.21	0.02	0.11	4.26	4.38	0.04	3.92	3.96	8,040.39
Building Off Road Diesel	9.86	58.68	33.14	0.00	0.00	4.08	4.08	0.00	3.75	3.75	5,587.33
Building Vendor Trips	0.27	3.47	2.98	0.01	0.02	0.14	0.16	0.01	0.12	0.13	654.18
Building Worker Trips	0.59	1.05	19.09	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,798.87
Coating 12/01/2010-05/31/2011	32.56	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04
Architectural Coating	32.54	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	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04

10/20/2008 2:44:46 PM

Time Slice 1/1/2011-2/28/2011 Active Days: 50	42.49	59.30	53.20	0.02	0.11	4.02	4.13	0.04	3.69	3.73	8,086.43
Building 08/02/2010-05/15/2011	9.93	59.28	52.76	0.02	0.11	4.02	4.13	0.04	3.69	3.73	8,041.37
Building Off Road Diesel	9.15	55.19	32.49	0.00	0.00	3.85	3.85	0.00	3.54	3.54	5,587.33
Building Vendor Trips	0.25	3.14	2.76	0.01	0.02	0.12	0.15	0.01	0.11	0.12	654.34
Building Worker Trips	0.53	0.94	17.51	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,799.70
Coating 12/01/2010-05/31/2011	32.56	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	32.54	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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Time Slice 3/1/2011-5/14/2011 Active Days: 65	**45.35**	**75.33**	**64.27**	**0.03**	0.14	**5.33**	5.46	0.05	**4.90**	4.94	**9,714.64**
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	9.93	59.28	52.76	0.02	0.11	4.02	4.13	0.04	3.69	3.73	8,041.37
Building Off Road Diesel	9.15	55.19	32.49	0.00	0.00	3.85	3.85	0.00	3.54	3.54	5,587.33
Building Vendor Trips	0.25	3.14	2.76	0.01	0.02	0.12	0.15	0.01	0.11	0.12	654.34
Building Worker Trips	0.53	0.94	17.51	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,799.70
Coating 12/01/2010-05/31/2011	32.56	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	32.54	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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06

Time Slice 5/16/2011-5/31/2011 Active Days: 14	35.42	16.05	11.51	0.01	0.02	1.31	1.33	0.01	1.20	1.21	1,673.27
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	32.56	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	32.54	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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06

Phase Assumptions

Phase: Fine Grading 7/16/2010 - 8/1/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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

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

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

Phase: Mass Grading 6/1/2010 - 7/15/2010 - Type Your Description Here

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 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

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

Phase: Paving 3/1/2011 - 5/31/2011 - Default Paving Description

Acres to be Paved: 10

Off-Road Equipment:

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

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

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

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

Phase: Building Construction 8/2/2010 - 5/15/2011 - Default Building Construction Description

Off-Road Equipment:

2 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 8 hours per day

4 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 6 hours per day

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

4 Rough Terrain Forklifts (93 hp) operating at a 0.6 load factor for 8 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

2 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 12/1/2010 - 5/31/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

10/20/2008 2:44:46 PM

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

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 6/1/2010-7/15/2010 Active Days: 39	6.62	46.76	29.86	0.00	5.65	0.21	5.86	1.18	0.19	1.37	5,082.37
Mass Grading 06/01/2010-07/15/2010	6.62	46.76	29.86	0.00	5.65	0.21	5.86	1.18	0.19	1.37	5,082.37
Mass Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Mass Grading Off Road Diesel	6.55	46.63	27.66	0.00	0.00	0.20	0.20	0.00	0.19	0.19	4,874.83
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	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54
Time Slice 7/16/2010-7/30/2010 Active Days: 11	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading 07/16/2010-08/01/2010	5.57	39.93	25.12	0.00	5.65	0.17	5.83	1.18	0.16	1.34	4,415.65
Fine Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Fine Grading Off Road Diesel	5.51	39.81	22.91	0.00	0.00	0.17	0.17	0.00	0.15	0.15	4,208.11
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.07	0.12	2.20	0.00	0.01	0.01	0.02	0.00	0.00	0.01	207.54

Time Slice 8/2/2010-11/30/2010 Active Days: 104	10.72	54.39	55.21	0.02	0.11	0.49	0.60	0.04	0.45	0.49	8,040.39
Building 08/02/2010-05/15/2011	10.72	54.39	55.21	0.02	0.11	0.49	0.60	0.04	0.45	0.49	8,040.39
Building Off Road Diesel	9.86	49.88	33.14	0.00	0.00	0.31	0.31	0.00	0.28	0.28	5,587.33
Building Vendor Trips	0.27	3.47	2.98	0.01	0.02	0.14	0.16	0.01	0.12	0.13	654.18
Building Worker Trips	0.59	1.05	19.09	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,798.87
Time Slice 12/1/2010-12/31/2010 Active Days: 27	15.80	54.42	55.69	0.02	0.11	0.49	0.61	0.04	0.45	0.49	8,085.43
Building 08/02/2010-05/15/2011	10.72	54.39	55.21	0.02	0.11	0.49	0.60	0.04	0.45	0.49	8,040.39
Building Off Road Diesel	9.86	49.88	33.14	0.00	0.00	0.31	0.31	0.00	0.28	0.28	5,587.33
Building Vendor Trips	0.27	3.47	2.98	0.01	0.02	0.14	0.16	0.01	0.12	0.13	654.18
Building Worker Trips	0.59	1.05	19.09	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,798.87
Coating 12/01/2010-05/31/2011	5.08	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04
Architectural Coating	5.07	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	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.04
Time Slice 1/1/2011-2/28/2011 Active Days: 50	34.16	51.02	53.20	0.02	0.11	0.46	0.58	0.04	0.42	0.46	8,086.43
Building 08/02/2010-05/15/2011	9.93	51.00	52.76	0.02	0.11	0.46	0.57	0.04	0.42	0.46	8,041.37
Building Off Road Diesel	9.15	46.91	32.49	0.00	0.00	0.29	0.29	0.00	0.27	0.27	5,587.33
Building Vendor Trips	0.25	3.14	2.76	0.01	0.02	0.12	0.15	0.01	0.11	0.12	654.34
Building Worker Trips	0.53	0.94	17.51	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,799.70
Coating 12/01/2010-05/31/2011	24.23	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	24.22	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	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06

Time Slice 3/1/2011-5/14/2011 Active Days: 65	37.02	64.92	**64.27**	**0.03**	0.14	0.63	0.76	0.05	0.57	0.62	**9,714.64**
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	9.93	51.00	52.76	0.02	0.11	0.46	0.57	0.04	0.42	0.46	8,041.37
Building Off Road Diesel	9.15	46.91	32.49	0.00	0.00	0.29	0.29	0.00	0.27	0.27	5,587.33
Building Vendor Trips	0.25	3.14	2.76	0.01	0.02	0.12	0.15	0.01	0.11	0.12	654.34
Building Worker Trips	0.53	0.94	17.51	0.02	0.09	0.05	0.14	0.03	0.04	0.07	1,799.70
Coating 12/01/2010-05/31/2011	24.23	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	24.22	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	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Time Slice 5/16/2011-5/31/2011 Active Days: 14	27.10	13.92	11.51	0.01	0.02	0.17	0.19	0.01	0.15	0.16	1,673.27
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	24.23	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06
Architectural Coating	24.22	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	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.06

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/16/2010 - 8/1/2010 - 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 6/1/2010 - 7/15/2010 - 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 3/1/2011 - 5/31/2011 - 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%

The following mitigation measures apply to Phase: Building Construction 8/2/2010 - 5/15/2011 - 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 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:

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

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

PM10: 85% PM25: 85%

10/20/2008 2:44:46 PM

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

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

For Rough Terrain Forklifts, 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%

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%

The following mitigation measures apply to Phase: Architectural Coating 12/1/2010 - 5/31/2011 - 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%

10/20/2008 2:44:46 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.17	2.29	1.92	0.00	0.00	0.00	2,749.20
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	0.00						
Architectural Coatings	1.39						
TOTALS (lbs/day, unmitigated)	2.05	2.37	8.10	0.00	0.02	0.02	2,760.44

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	0.13	1.83	1.54	0.00	0.00	0.00	2,199.36
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	0.00						
Architectural Coatings	1.39						
TOTALS (lbs/day, mitigated)	2.01	1.91	7.72	0.00	0.02	0.02	2,210.60

Area Source Mitigation Measures Selected

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

Area Source Changes to Defaults

10/20/2008 2:44:46 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
High turnover (sit-down) rest.	7.82	11.29	74.48	0.06	5.14	1.24	6,301.63
Fast food rest. w/ drive thru	12.00	21.05	136.20	0.12	9.96	2.40	12,117.02
Free-standing discount superstore	52.59	93.52	601.43	0.53	44.55	10.70	54,095.44
Discount club	35.89	63.55	408.70	0.36	30.27	7.27	36,759.83
TOTALS (lbs/day, unmitigated)	108.30	189.41	1,220.81	1.07	89.92	21.61	109,273.92

10/20/2008 2:44:46 PM

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
High turnover (sit-down) rest.	7.82	11.29	74.48	0.06	5.14	1.24	6,301.63
Fast food rest. w/ drive thru	12.00	21.05	136.20	0.12	9.96	2.40	12,117.02
Free-standing discount superstore	52.59	93.52	601.43	0.53	44.55	10.70	54,095.44
Discount club	35.89	63.55	408.70	0.36	30.27	7.27	36,759.83
TOTALS (lbs/day, mitigated)	108.30	189.41	1,220.81	1.07	89.92	21.61	109,273.92

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 selected.

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

10/20/2008 2:44:46 PM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
High turnover (sit-down) rest.		127.15	1000 sq ft	9.00	1,144.35	5,810.78
Fast food rest. w/ drive thru		496.12	1000 sq ft	3.00	1,488.36	11,270.76
Free-standing discount superstore		49.21	1000 sq ft	125.00	6,151.25	50,417.49
Discount club		41.80	1000 sq ft	100.00	4,180.00	34,260.53
					12,963.96	101,759.56

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.4	1.2	98.6	0.2
Light Truck < 3750 lbs	12.1	2.5	90.9	6.6
Light Truck 3751-5750 lbs	21.1	0.9	98.6	0.5
Med Truck 5751-8500 lbs	11.9	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	1.3	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.8	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	3.9	64.1	35.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5
Fast food rest. w/ drive thru				5.0	2.5	92.5
Free-standing discount superstore				2.0	1.0	97.0
Discount club				2.0	1.0	97.0

Operational Changes to Defaults

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

Home-based work urban trip length changed from 10.8 miles to 12.6 miles

Home-based work rural trip length changed from 16.8 miles to 12.6 miles

Home-based shop urban trip length changed from 7.3 miles to 12.6 miles

Home-based shop rural trip length changed from 7.1 miles to 12.6 miles

Home-based other urban trip length changed from 7.5 miles to 12.6 miles

Home-based other rural trip length changed from 7.9 miles to 12.6 miles

Commercial-based commute urban trip length changed from 9.5 miles to 12.6 miles

Commercial-based commute rural trip length changed from 14.7 miles to 12.6 miles

Commercial-based non-work urban trip length changed from 7.35 miles to 12.6 miles

Operational Changes to Defaults

Commercial-based non-work rural trip length changed from 6.6 miles to 12.6 miles

Commercial-based customer urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based customer rural trip length changed from 6.6 miles to 12.6 miles

10/20/2008 3:14:39 PM

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\Northfork\Nothfork Alt. D Near-Term.urb924

Project Name: Northfork Alt. D Near-Term

Project Location: San Joaquin Valley APCD

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
2010 TOTALS (tons/year unmitigated)	0.21	1.30	0.84	0.00	2.12	0.07	2.19	0.44	0.07	0.51	138.91
2010 TOTALS (tons/year mitigated)	0.17	1.11	0.84	0.00	0.15	0.01	0.16	0.03	0.01	0.04	138.91
Percent Reduction	19.01	14.60	0.00	0.00	92.90	90.68	92.83	92.87	90.74	92.59	0.00
2011 TOTALS (tons/year unmitigated)	0.41	1.15	0.84	0.00	0.00	0.08	0.09	0.00	0.08	0.08	131.48
2011 TOTALS (tons/year mitigated)	0.35	0.99	0.84	0.00	0.00	0.01	0.01	0.00	0.01	0.01	131.48
Percent Reduction	14.28	13.70	0.00	0.00	0.00	88.14	86.55	0.00	88.21	87.60	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.04	0.03	0.17	0.00	0.00	0.00	38.21

10/20/2008 3:14:39 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	2.22	4.59	26.66	0.02	1.97	0.47	2,288.81

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	2.26	4.62	26.83	0.02	1.97	0.47	2,327.02

10/20/2008 3:15:27 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

Project Name: Northfork Alt. D Near-Term

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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 6/1/2010-7/15/2010 Active Days: 39	3.04	**25.06**	13.72	0.00	**80.01**	1.25	**81.26**	**16.71**	1.15	**17.86**	2,365.91
Mass Grading 06/01/2010-07/15/2010	3.04	25.06	13.72	0.00	80.01	1.25	81.26	16.71	1.15	17.86	2,365.91
Mass Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Mass Grading Off Road Diesel	3.00	24.99	12.46	0.00	0.00	1.25	1.25	0.00	1.15	1.15	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	0.04	0.07	1.26	0.00	0.01	0.00	0.01	0.00	0.00	0.00	118.60

10/20/2008 3:15:27 PM

Time Slice 7/16/2010-7/31/2010 Active Days: 14	3.04	**25.06**	13.72	0.00	**80.01**	1.25	**81.26**	**16.71**	1.15	**17.86**	2,365.91
Fine Grading 07/16/2010-08/01/2010	3.04	25.06	13.72	0.00	80.01	1.25	81.26	16.71	1.15	17.86	2,365.91
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	3.00	24.99	12.46	0.00	0.00	1.25	1.25	0.00	1.15	1.15	2,247.32
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.04	0.07	1.26	0.00	0.01	0.00	0.01	0.00	0.00	0.00	118.60
Time Slice 8/2/2010-11/30/2010 Active Days: 104	1.30	9.66	7.23	0.00	0.01	0.60	0.61	0.00	0.55	0.55	1,162.50
Building 08/02/2010-05/15/2011	1.30	9.66	7.23	0.00	0.01	0.60	0.61	0.00	0.55	0.55	1,162.50
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.03	0.38	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.77
Building Worker Trips	0.06	0.11	2.09	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.34
Time Slice 12/1/2010-12/31/2010 Active Days: 27	4.87	9.66	7.29	0.00	0.01	0.60	0.61	0.00	0.55	0.55	1,167.44
Building 08/02/2010-05/15/2011	1.30	9.66	7.23	0.00	0.01	0.60	0.61	0.00	0.55	0.55	1,162.50
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.03	0.38	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.77
Building Worker Trips	0.06	0.11	2.09	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.34
Coating 12/01/2010-05/31/2011	3.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94

Time Slice 1/1/2011-2/28/2011 Active Days: 50	4.77	8.96	6.95	0.00	0.01	0.56	0.57	0.00	0.52	0.52	1,167.55
Building 08/02/2010-05/15/2011	1.20	8.95	6.90	0.00	0.01	0.56	0.57	0.00	0.52	0.52	1,162.61
Building Off Road Diesel	1.11	8.51	4.68	0.00	0.00	0.54	0.54	0.00	0.50	0.50	893.39
Building Vendor Trips	0.03	0.34	0.30	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.78
Building Worker Trips	0.06	0.10	1.92	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.43
Coating 12/01/2010-05/31/2011	3.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Time Slice 3/1/2011-5/14/2011 Active Days: 65	**7.63**	24.98	**18.02**	**0.01**	0.03	**1.87**	1.90	0.01	**1.72**	1.73	**2,795.76**
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	1.20	8.95	6.90	0.00	0.01	0.56	0.57	0.00	0.52	0.52	1,162.61
Building Off Road Diesel	1.11	8.51	4.68	0.00	0.00	0.54	0.54	0.00	0.50	0.50	893.39
Building Vendor Trips	0.03	0.34	0.30	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.78
Building Worker Trips	0.06	0.10	1.92	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.43
Coating 12/01/2010-05/31/2011	3.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94

Time Slice 5/16/2011-5/31/2011 Active Days: 14	6.43	16.03	11.12	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,633.15
Asphalt 03/01/2011-05/31/2011	2.86	16.03	11.07	0.00	0.02	1.31	1.33	0.01	1.20	1.21	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.17	8.17	0.00	0.00	1.24	1.24	0.00	1.14	1.14	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	3.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94

Phase Assumptions

Phase: Fine Grading 7/16/2010 - 8/1/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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 6/1/2010 - 7/15/2010 - Type Your Description Here

Total Acres Disturbed: 44

Maximum Daily Acreage Disturbed: 4

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 3/1/2011 - 5/31/2011 - Default Paving Description

Acres to be Paved: 10

Off-Road Equipment:

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

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

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

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

Phase: Building Construction 8/2/2010 - 5/15/2011 - Default Building Construction Description

Off-Road Equipment:

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

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

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

Phase: Architectural Coating 12/1/2010 - 5/31/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

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:

10/20/2008 3:15:27 PM

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 6/1/2010-7/15/2010 Active Days: 39	3.04	21.31	13.72	0.00	5.65	0.10	5.75	1.18	0.09	1.27	2,365.91
Mass Grading 06/01/2010-07/15/2010	3.04	21.31	13.72	0.00	5.65	0.10	5.75	1.18	0.09	1.27	2,365.91
Mass Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Mass Grading Off Road Diesel	3.00	21.24	12.46	0.00	0.00	0.09	0.09	0.00	0.09	0.09	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	0.04	0.07	1.26	0.00	0.01	0.00	0.01	0.00	0.00	0.00	118.60
Time Slice 7/16/2010-7/31/2010 Active Days: 14	3.04	21.31	13.72	0.00	5.65	0.10	5.75	1.18	0.09	1.27	2,365.91
Fine Grading 07/16/2010-08/01/2010	3.04	21.31	13.72	0.00	5.65	0.10	5.75	1.18	0.09	1.27	2,365.91
Fine Grading Dust	0.00	0.00	0.00	0.00	5.64	0.00	5.64	1.18	0.00	1.18	0.00
Fine Grading Off Road Diesel	3.00	21.24	12.46	0.00	0.00	0.09	0.09	0.00	0.09	0.09	2,247.32
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.04	0.07	1.26	0.00	0.01	0.00	0.01	0.00	0.00	0.00	118.60
Time Slice 8/2/2010-11/30/2010 Active Days: 104	1.30	8.29	7.23	0.00	0.01	0.06	0.08	0.00	0.06	0.06	1,162.50
Building 08/02/2010-05/15/2011	1.30	8.29	7.23	0.00	0.01	0.06	0.08	0.00	0.06	0.06	1,162.50
Building Off Road Diesel	1.21	7.79	4.81	0.00	0.00	0.04	0.04	0.00	0.04	0.04	893.39
Building Vendor Trips	0.03	0.38	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.77
Building Worker Trips	0.06	0.11	2.09	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.34

Time Slice 12/1/2010-12/31/2010 Active Days: 27	1.86	8.29	7.29	0.00	0.01	0.06	0.08	0.00	0.06	0.06	1,167.44
Building 08/02/2010-05/15/2011	1.30	8.29	7.23	0.00	0.01	0.06	0.08	0.00	0.06	0.06	1,162.50
Building Off Road Diesel	1.21	7.79	4.81	0.00	0.00	0.04	0.04	0.00	0.04	0.04	893.39
Building Vendor Trips	0.03	0.38	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.77
Building Worker Trips	0.06	0.11	2.09	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.34
Coating 12/01/2010-05/31/2011	0.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Time Slice 1/1/2011-2/28/2011 Active Days: 50	3.86	7.68	6.95	0.00	0.01	0.06	0.07	0.00	0.05	0.06	1,167.55
Building 08/02/2010-05/15/2011	1.20	7.68	6.90	0.00	0.01	0.06	0.07	0.00	0.05	0.06	1,162.61
Building Off Road Diesel	1.11	7.23	4.68	0.00	0.00	0.04	0.04	0.00	0.04	0.04	893.39
Building Vendor Trips	0.03	0.34	0.30	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.78
Building Worker Trips	0.06	0.10	1.92	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.43
Coating 12/01/2010-05/31/2011	2.66	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94

10/20/2008 3:15:27 PM

Time Slice 3/1/2011-5/14/2011 Active Days: 65	6.72	21.58	**18.02**	**0.01**	0.03	0.22	0.26	0.01	0.21	0.22	**2,795.76**
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Building 08/02/2010-05/15/2011	1.20	7.68	6.90	0.00	0.01	0.06	0.07	0.00	0.05	0.06	1,162.61
Building Off Road Diesel	1.11	7.23	4.68	0.00	0.00	0.04	0.04	0.00	0.04	0.04	893.39
Building Vendor Trips	0.03	0.34	0.30	0.00	0.00	0.01	0.02	0.00	0.01	0.01	71.78
Building Worker Trips	0.06	0.10	1.92	0.00	0.01	0.01	0.02	0.00	0.00	0.01	197.43
Coating 12/01/2010-05/31/2011	2.66	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Time Slice 5/16/2011-5/31/2011 Active Days: 14	5.52	13.90	11.12	0.00	0.02	0.17	0.19	0.01	0.15	0.16	1,633.15
Asphalt 03/01/2011-05/31/2011	2.86	13.90	11.07	0.00	0.02	0.16	0.19	0.01	0.15	0.16	1,628.21
Paving Off-Gas	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	12.04	8.17	0.00	0.00	0.09	0.09	0.00	0.09	0.09	1,131.92
Paving On Road Diesel	0.12	1.73	0.59	0.00	0.01	0.07	0.07	0.00	0.06	0.06	258.99
Paving Worker Trips	0.07	0.12	2.31	0.00	0.01	0.01	0.02	0.00	0.01	0.01	237.30
Coating 12/01/2010-05/31/2011	2.66	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Architectural Coating	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 7/16/2010 - 8/1/2010 - 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 6/1/2010 - 7/15/2010 - Type Your Description Here

10/20/2008 3:15:27 PM

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 3/1/2011 - 5/31/2011 - 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%

The following mitigation measures apply to Phase: Building Construction 8/2/2010 - 5/15/2011 - 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 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 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%

The following mitigation measures apply to Phase: Architectural Coating 12/1/2010 - 5/31/2011 - 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:

10/20/2008 3:15:27 PM

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	0.01	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	0.15						
TOTALS (lbs/day, unmitigated)	0.28	0.19	1.70	0.00	0.01	0.01	210.81

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	11.25	22.26	141.89	0.13	10.79	2.59	13,060.43
TOTALS (lbs/day, unmitigated)	11.25	22.26	141.89	0.13	10.79	2.59	13,060.43

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Temperature (F): 85 Season: Summer

10/20/2008 3:15:27 PM

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		43.80	1000 sq ft	26.00	1,138.80	12,218.07
					1,138.80	12,218.07

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.4	1.2	98.6	0.2
Light Truck < 3750 lbs	12.1	2.5	90.9	6.6
Light Truck 3751-5750 lbs	21.1	0.9	98.6	0.5
Med Truck 5751-8500 lbs	11.9	0.8	99.2	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	1.3	7.7	15.4	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.8	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	3.9	64.1	35.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				2.0	1.0	97.0

Operational Changes to Defaults

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

Home-based work urban trip length changed from 10.8 miles to 12.6 miles

Home-based work rural trip length changed from 16.8 miles to 12.6 miles

Home-based shop urban trip length changed from 7.3 miles to 12.6 miles

Home-based shop rural trip length changed from 7.1 miles to 12.6 miles

Home-based other urban trip length changed from 7.5 miles to 12.6 miles

Home-based other rural trip length changed from 7.9 miles to 12.6 miles

Commercial-based commute urban trip length changed from 9.5 miles to 12.6 miles

Commercial-based commute rural trip length changed from 14.7 miles to 12.6 miles

Commercial-based non-work urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based non-work rural trip length changed from 6.6 miles to 12.6 miles

Commercial-based customer urban trip length changed from 7.35 miles to 12.6 miles

Commercial-based customer rural trip length changed from 6.6 miles to 12.6 miles

10/20/2008 2:41:34 PM

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\Northfork\Nothfork Alt. A Cumulative.urb924

Project Name: Northfork Alt. A Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.43	0.59	0.78	0.00	0.00	0.00	711.79

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	8.30	10.05	84.88	0.22	19.07	4.12	22,779.33

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	8.73	10.64	85.66	0.22	19.07	4.12	23,491.12

10/20/2008 2:41:51 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. A Cumulative.urb924

Project Name: Northfork Alt. A Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	2.52	3.29	5.82	0.00	0.02	0.02	3,903.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	43.11	48.25	459.07	1.27	104.49	22.55	130,325.98

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	45.63	51.54	464.89	1.27	104.51	22.57	134,229.04

10/20/2008 2:41:51 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.24	3.25	2.73	0.00	0.01	0.01	3,897.44
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	2.03						
TOTALS (lbs/day, unmitigated)	2.52	3.29	5.82	0.00	0.02	0.02	3,903.06

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Hotel	3.04	2.53	24.16	0.07	5.49	1.18	6,846.54
Casino	40.07	45.72	434.91	1.20	99.00	21.37	123,479.44
TOTALS (lbs/day, unmitigated)	43.11	48.25	459.07	1.27	104.49	22.55	130,325.98

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 85 Season: Summer

10/20/2008 2:41:51 PM

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		3.00	rooms	200.00	600.00	6,437.34
Casino		43.80	1000 sq ft	247.18	10,826.48	116,156.26
					11,426.48	122,593.60

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.5	0.0	100.0	0.0
Light Truck < 3750 lbs	12.1	0.0	99.2	0.8
Light Truck 3751-5750 lbs	21.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	79.2	20.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.5	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	3.9	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

10/20/2008 2:41:51 PM

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Hotel				5.0	2.5	92.5
Casino				2.0	1.0	97.0

10/21/2008 2:23:55 PM

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\Northfork\Nothfork Alt. B Cumulative.urb924

Project Name: Northfork Alt. B Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.23	0.23	0.33	0.00	0.00	0.00	277.64

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	5.97	7.32	61.80	0.16	13.89	3.00	16,589.05

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	6.20	7.55	62.13	0.16	13.89	3.00	16,866.69

10/21/2008 2:24:16 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. B Cumulative.urb924

Project Name: Northfork Alt. B Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	1.32	1.29	2.61	0.00	0.01	0.01	1,522.73

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	30.80	35.14	334.28	0.92	76.10	16.42	94,910.03

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	32.12	36.43	336.89	0.92	76.11	16.43	96,432.76

10/21/2008 2:24:16 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.09	1.27	1.06	0.00	0.00	0.00	1,519.92
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	1.11						
TOTALS (lbs/day, unmitigated)	1.32	1.29	2.61	0.00	0.01	0.01	1,522.73

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	30.80	35.14	334.28	0.92	76.10	16.42	94,910.03
TOTALS (lbs/day, unmitigated)	30.80	35.14	334.28	0.92	76.10	16.42	94,910.03

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

10/21/2008 2:24:16 PM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Casino		43.80	1000 sq ft	189.99	8,321.56	89,281.21
					8,321.56	89,281.21

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.5	0.0	100.0	0.0
Light Truck < 3750 lbs	12.1	0.0	99.2	0.8
Light Truck 3751-5750 lbs	21.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	79.2	20.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.5	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	3.9	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6

10/21/2008 2:24:16 PM

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				2.0	1.0	97.0

10/20/2008 3:17:19 PM

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\Northfork\Nothfork Alt. C Cumulative.urb924

Project Name: Northfork Alt. C Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.32	0.43	0.91	0.00	0.00	0.00	502.74
TOTALS (tons/year, mitigated)	0.31	0.34	0.84	0.00	0.00	0.00	402.39
Percent Reduction	3.13	20.93	7.69	NaN	NaN	NaN	19.96

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	7.87	8.55	73.14	0.18	15.84	3.43	18,995.39
TOTALS (tons/year, mitigated)	7.87	8.55	73.14	0.18	15.84	3.43	18,995.39
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

10/20/2008 3:17:19 PM

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	8.19	8.98	74.05	0.18	15.84	3.43	19,498.13
TOTALS (tons/year, mitigated)	8.18	8.89	73.98	0.18	15.84	3.43	19,397.78
Percent Reduction	0.12	1.00	0.09	0.00	0.00	0.00	0.51

10/20/2008 3:17:32 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. C Cumulative.urb924

Project Name: Northfork Alt. C Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

10/20/2008 3:17:32 PM

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	2.05	2.37	8.10	0.00	0.02	0.02	2,760.44
TOTALS (lbs/day, mitigated)	2.01	1.91	7.72	0.00	0.02	0.02	2,210.60
Percent Reduction	1.95	19.41	4.69	NaN	0.00	0.00	19.92

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	40.19	41.10	392.25	1.06	86.80	18.78	108,656.00
TOTALS (lbs/day, mitigated)	40.19	41.10	392.25	1.06	86.80	18.78	108,656.00
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)	42.24	43.47	400.35	1.06	86.82	18.80	111,416.44
TOTALS (lbs/day, mitigated)	42.20	43.01	399.97	1.06	86.82	18.80	110,866.60
Percent Reduction	0.09	1.06	0.09	0.00	0.00	0.00	0.49

10/20/2008 3:17:32 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.17	2.29	1.92	0.00	0.00	0.00	2,749.20
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	0.00						
Architectural Coatings	1.39						
TOTALS (lbs/day, unmitigated)	2.05	2.37	8.10	0.00	0.02	0.02	2,760.44

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	0.13	1.83	1.54	0.00	0.00	0.00	2,199.36
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	0.00						
Architectural Coatings	1.39						
TOTALS (lbs/day, mitigated)	2.01	1.91	7.72	0.00	0.02	0.02	2,210.60

Area Source Changes to Defaults

10/20/2008 3:17:33 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
High turnover (sit-down) rest.	2.86	2.47	23.78	0.06	4.96	1.08	6,264.29
Fast food rest. w/ drive thru	4.43	4.57	43.73	0.12	9.62	2.08	12,048.32
Free-standing discount superstore	19.55	20.28	193.35	0.52	43.00	9.30	53,790.66
Discount club	13.35	13.78	131.39	0.36	29.22	6.32	36,552.73
TOTALS (lbs/day, unmitigated)	40.19	41.10	392.25	1.06	86.80	18.78	108,656.00

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
High turnover (sit-down) rest.	2.86	2.47	23.78	0.06	4.96	1.08	6,264.29
Fast food rest. w/ drive thru	4.43	4.57	43.73	0.12	9.62	2.08	12,048.32
Free-standing discount superstore	19.55	20.28	193.35	0.52	43.00	9.30	53,790.66
Discount club	13.35	13.78	131.39	0.36	29.22	6.32	36,552.73
TOTALS (lbs/day, mitigated)	40.19	41.10	392.25	1.06	86.80	18.78	108,656.00

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

10/20/2008 3:17:33 PM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
High turnover (sit-down) rest.		127.15	1000 sq ft	9.00	1,144.35	5,810.78
Fast food rest. w/ drive thru		496.12	1000 sq ft	3.00	1,488.36	11,270.76
Free-standing discount superstore		49.21	1000 sq ft	125.00	6,151.25	50,417.49
Discount club		41.80	1000 sq ft	100.00	4,180.00	34,260.53
					12,963.96	101,759.56

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.5	0.0	100.0	0.0
Light Truck < 3750 lbs	12.1	0.0	99.2	0.8
Light Truck 3751-5750 lbs	21.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	79.2	20.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.5	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	3.9	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5
Fast food rest. w/ drive thru				5.0	2.5	92.5
Free-standing discount superstore				2.0	1.0	97.0
Discount club				2.0	1.0	97.0

10/20/2008 3:18:49 PM

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\Northfork\Nothfork Alt. D Cumulative.urb924

Project Name: Northfork Alt. D Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.04	0.03	0.17	0.00	0.00	0.00	38.21

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.82	1.00	8.46	0.02	1.90	0.41	2,270.20

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.86	1.03	8.63	0.02	1.90	0.41	2,308.41

10/20/2008 3:19:03 PM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Northfork\Nothfork Alt. D Cumulative.urb924

Project Name: Northfork Alt. D Cumulative

Project Location: San Joaquin Valley APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	0.28	0.19	1.70	0.00	0.01	0.01	210.81

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	4.21	4.81	45.75	0.13	10.41	2.25	12,988.37

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	4.49	5.00	47.45	0.13	10.42	2.26	13,199.18

10/20/2008 3:19:03 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	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	0.15						
TOTALS (lbs/day, unmitigated)	0.28	0.19	1.70	0.00	0.01	0.01	210.81

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Casino	4.21	4.81	45.75	0.13	10.41	2.25	12,988.37
TOTALS (lbs/day, unmitigated)	4.21	4.81	45.75	0.13	10.41	2.25	12,988.37

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

10/20/2008 3:19:03 PM

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Casino		43.80	1000 sq ft	26.00	1,138.80	12,218.07
					1,138.80	12,218.07

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.5	0.0	100.0	0.0
Light Truck < 3750 lbs	12.1	0.0	99.2	0.8
Light Truck 3751-5750 lbs	21.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	79.2	20.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	2.5	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	3.9	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6

10/20/2008 3:19:03 PM

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Rural Trip Length (miles)	12.6	12.6	12.6	12.6	12.6	12.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Casino				2.0	1.0	97.0