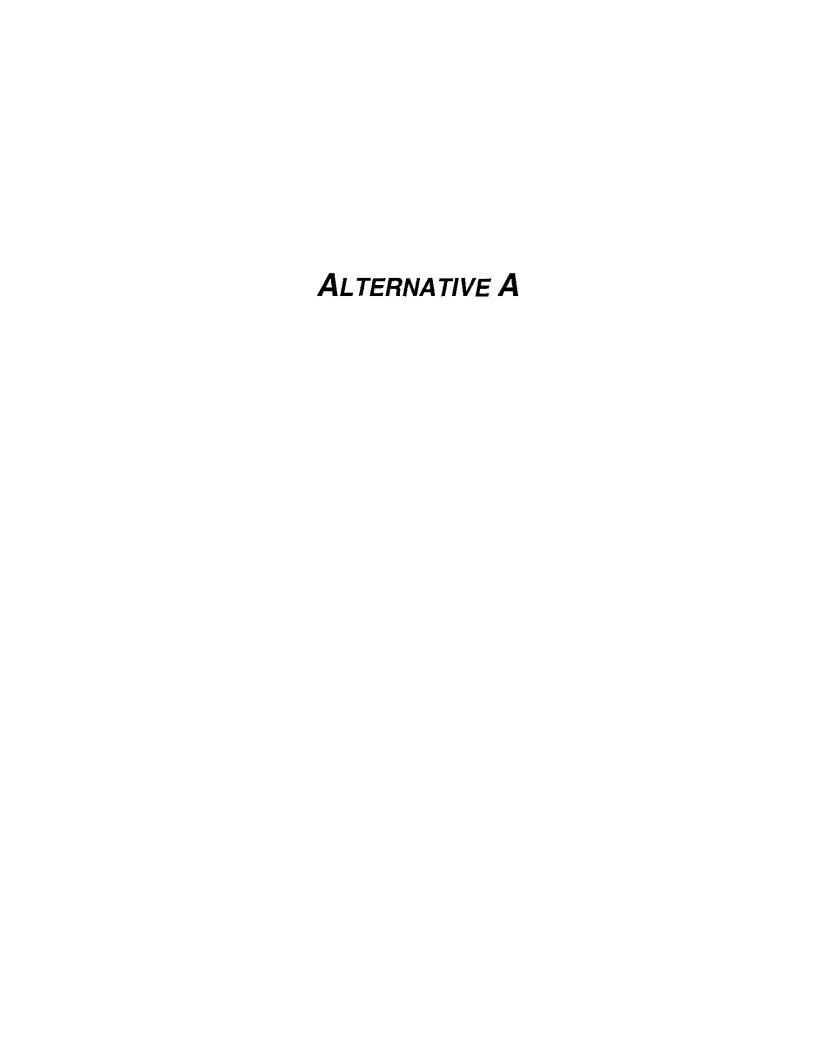
APPENDIX Q

AIR QUALITY MODEL RUNS (REVISED)

Air Quality Emissions Calculations



10/14/2008 11:04:07 AM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | NOX | 0 | <u>SO2</u> | PM10 Dust PM10 Exhaust | 110 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | CO2 |
|-------------------------------------|-------|-------|-------|------------|------------------------|-------------|-------|------------|------------------|-------|--------|
| 2009 TOTALS (tons/year unmitigated) | 0.81 | 5.17 | 3.65 | 0.00 | 1.38 | 0.26 | 1.64 | 0.29 | 0.24 | 0.53 | 593.12 |
| 2009 TOTALS (tons/year mitigated) | 99.0 | 4.60 | 3.65 | 0.00 | 1.10 | 0.07 | 1.16 | 0.23 | 90.0 | 0.29 | 593.12 |
| Percent Reduction | 17.79 | 11.06 | 0.00 | 0.00 | 20.46 | 74.54 | 28.97 | 20.43 | 74.57 | 44.84 | 0.00 |
| | | | | | | | | | | | |
| 2010 TOTALS (tons/year unmitigated) | 0.88 | 2.64 | 2.33 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.15 | 0.15 | 316.00 |
| 2010 TOTALS (tons/year mitigated) | 0.71 | 2.27 | 2.33 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 316.00 |
| Percent Reduction | 20.05 | 14.01 | 0.00 | 0.00 | 0.00 | 89.19 | 86.98 | 0.00 | 89.23 | 88.35 | 0.00 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | NOX | 잉 | <u>S02</u> | PM10 | PM2.5 | C02 | | | |
| TOTALS (tons/year, unmitigated) | | 60.0 | 0.08 | 0.21 | | 0.00 | 0.00 | 95.15 | | | |
| TOTALS (tons/year, mitigated) | | 0.08 | 90.0 | 0.19 | | 0.00 | 0.00 | 76.17 | | | |
| Percent Reduction | | 11.11 | 25.00 | 9.52 | NaN | NaN | NaN | 19.95 | | | |

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | 0 | 802 | PM10 | PM2.5 | <u>CO2</u> |
|---|------------|-------|--------|-------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 43.73 | 62.60 | 528.21 | 0.28 | 51.77 | 10.08 | 28,233.04 |
| TOTALS (tons/year, mitigated) | 43.73 | 62.60 | 528.21 | 0.28 | 51.77 | 10.08 | 28,233.04 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | ION ESTIMA | TES | | | | | |
| | <u>R0G</u> | NOX | 0 | 802 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (tons/year, unmitigated) | 43.82 | 62.68 | 528.42 | 0.28 | 51.77 | 10.08 | 28,328.19 |
| TOTALS (tons/year, mitigated) | 43.81 | 62.66 | 528.40 | 0.28 | 51.77 | 10.08 | 28,309.21 |
| Percent Reduction | 0.02 | 0.03 | 00.00 | 0.00 | 00:00 | 0.00 | 0.07 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

| CONSTITUTE CALIBRATES | | | | | | | | | | | |
|---|-------|--------|-------|------------|------------------------|---------|--------|------------|------------------|-------|------------|
| RO | ROG | XON | 엉 | S02 P | PM10 Dust PM10 Exhaust | Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | <u>CO2</u> |
| 2009 TOTALS (lbs/day unmitigated) 15.56 | .56 | 180.62 | 75.66 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| 2009 TOTALS (lbs/day mitigated) 14.8 | 14.85 | 179.40 | 75.66 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 | 22,764.56 |
| 2010 TOTALS (lbs/day unmitigated) | 18.69 | 61.35 | 53.89 | 0.02 | 60.0 | 3.77 | 3.86 | 0.03 | 3.46 | 3.50 | 7,299.24 |
| 2010 TOTALS (lbs/day mitigated) 15.3 | 15.24 | 52.74 | 53.89 | 0.02 | 60.0 | 0.40 | 0.50 | 0.03 | 0.37 | 0.40 | 7,299.24 |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | ŒĮ | ROG | XON | 엉 | <u>\$05</u> | PM10 | PM2.5 | <u>CO2</u> | | | |
| TOTALS (lbs/day, unmitigated) | J | 0.53 | 0.45 | 1.91 | 0.00 | 0.01 | 0.01 | 522.81 | | | |
| TOTALS (lbs/day, mitigated) | | 0.53 | 0.37 | <u>z</u> . | 0.00 | 0.01 | 0.01 | 418.81 | | | |
| Percent Reduction | | 00.00 | 17.78 | 3.66 | NaN | 0.00 | 00.00 | 19.89 | | | |

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| <u>CO2</u> | 161,223.64 | 161,223.64 | 0.00 | | <u>CO2</u> | 161,746.45 | 161,642.45 | 0.06 |
|------------|-------------------------------|-----------------------------|-------------------|---|------------|-------------------------------|-----------------------------|-------------------|
| PM2.5 | 55.21 | 55.21 | 00'0 | | PM2.5 | 55.22 | 55.22 | 0.00 |
| PM10 | 283.68 | 283.68 | 0.00 | | PM10 | 283.69 | 283.69 | 0.00 |
| <u>807</u> | 1.57 | 1.57 | 00.00 | | 802 | 1.57 | 1.57 | 0.00 |
| 잉 | 2,821.69 | 2,821.69 | 0.00 | | 잉 | 2,823.60 | 2,823.53 | 0.00 |
| NON | 292.49 | 292.49 | 00:00 | | XON | 292.94 | 292.86 | 0.03 |
| ROG | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | duction 0.00 | SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | ROG | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | duction 0.00 |
| | TOTALS (Ib | TOTALS (Ib | Percent Reduction | SUM OF AF | | TOTALS (IL | TOTALS (I | Percent Reduction |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| <u>CO2</u> | 22,764.56 | 22,764.56 | 0.00 | 700.30 | 21,807.55 | 256.72 |
|---------------|--|--------------------------------------|---------------|----------------------|---------------------|-------------------|
| PM2.5 | 40.69 | 40.89 | 34.07 | 0.59 | 6.22 | 0.01 |
| PM2.5 Exhaust | 6.57 | 6.57 | 0.00 | 0.59 | 5.97 | 0.01 |
| PM2.5 Dust | 34.33 | 34.33 | 34.07 | 0.00 | 0.25 | 0.00 |
| PM10 | 171.71 | 171.71 | 163.80 | 0.64 | 7.25 | 0.05 |
| PM10 Exhaust | 7.14 | 7.14 | 0.00 | 0.64 | 6.49 | 0.01 |
| PM10 Dust | 164.58 | 164.58 | 163.80 | 00.00 | 0.76 | 0.01 |
| 802 | 0.21 | 0.21 | 00.00 | 00.00 | 0.20 | 0.00 |
| 잉 | 64.71 | 64.71 | 0.00 | 4.78 | 55.69 | 4.23 |
| XON | 180.62 | 180.62 | 0.00 | 8.15 | 172.19 | 0.28 |
| ROG | 11.97 | 11.97 | 0.00 | 1.23 | 10.59 | 0.14 |
| | Time Slice 6/1/2009-6/15/2009 Active Days: 13 | Demolition 06/01/2009- 06/15/2009 | Fugitive Dust | Demo Off Road Diesel | Demo On Road Diesel | Demo Worker Trips |

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| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
|---|-------|--------|-------|-------|-------|------|-------|------|------|-------|-----------|
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 0.00 | 00.0 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 00.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 14.85 | 122.88 | 75.66 | 0.01 | 29.66 | 5.79 | 35.45 | 6.20 | 5.33 | 11.53 | 11,624.63 |
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 00:00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Fine Grading On Road Diesel | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 00:00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 00:00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 00.00 | 00.00 | 00.0 | 00:00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00:00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |

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| Time Slice 7/17/2009-7/31/2009 Active Days: 13 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
|---|--------------|-------|-------|-------|-------|------|-------|-------|------|------|----------|
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 00.00 | 2.65 | 2.65 | 5,234.71 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 8/1/2009-11/14/2009 Active Days: 91 | 5.87 | 41.77 | 37.38 | 0.01 | 0.07 | 2.32 | 2.39 | 0.02 | 2.13 | 2.15 | 4,968.23 |
| Building 08/01/2009-04/15/2010 | 5.87 | 41.77 | 37.38 | 0.01 | 0.07 | 2.32 | 2.39 | 0.02 | 2.13 | 2.15 | 4,968.23 |
| Building Off Road Diesel | 5.11 | 38.33 | 17.77 | 00.00 | 0.00 | 2.20 | 2.20 | 00.00 | 2.03 | 2.03 | 3,502.14 |
| Building Vendor Trips | 0.17 | 2.28 | 2.00 | 0.00 | 0.01 | 0.09 | 0.10 | 0.01 | 90.0 | 0.08 | 398.15 |
| Building Worker Trips | 0.59 | 1.15 | 17.60 | 0.01 | 0.05 | 0.03 | 0.08 | 0.02 | 0.02 | 0.04 | 1,067.94 |
| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | <u>15.56</u> | 41.80 | 37.85 | 0.01 | 0.07 | 2.32 | 2.39 | 0.02 | 2.13 | 2.16 | 4,997.19 |
| Building 08/01/2009-04/15/2010 | 5.87 | 41.77 | 37.38 | 0.01 | 0.07 | 2.32 | 2.39 | 0.02 | 2.13 | 2.15 | 4,968.23 |
| Building Off Road Diesel | 5.11 | 38.33 | 17.77 | 0.00 | 0.00 | 2.20 | 2.20 | 0.00 | 2.03 | 2.03 | 3,502.14 |
| Building Vendor Trips | 0.17 | 2.28 | 2.00 | 0.00 | 0.01 | 60.0 | 0.10 | 0.01 | 0.08 | 0.08 | 398.15 |
| Building Worker Trips | 0.59 | 1.15 | 17.60 | 0.01 | 0.05 | 0.03 | 0.08 | 0.02 | 0.02 | 0.04 | 1,067.94 |
| Coating 11/15/2009-04/30/2010 | 69.6 | 0.03 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.97 |
| Architectural Coating | 6.67 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.02 | 0.03 | 0.48 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 28.97 |

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| 4,998.01 | 4,969.02 | 3,502.14 | 398.25 | 1,068.64 | 28.99 | 0.00 | 28.99 | 7.299.24 | 2,301.23 | 0.00 | 1,809.09 | 42.59 | 449.55 | 4,969.02 | 3,502.14 | 398.25 | 1,068.64 | 28.99 | 00:00 | 28.99 |
|--|--------------------------------|--------------------------|-----------------------|------------------------------|-------------------------------|-----------------------|----------------------|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|--------------------------------|--------------------------|------------------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| 2.00 | 2.00 | 1.87 | 0.08 | 0.04 | 0.00 | 0.00 | 0.00 | 3.50 | 1.50 | 0.00 | 1.47 | 0.01 | 0.02 | 2.00 | 1.87 | 0.08 | 0.04 | 0.00 | 0.00 | 00:00 |
| 1.97 | 1.97 | 1.87 | 0.07 | 0.02 | 00.00 | 00.00 | 0.00 | 3.46 | 1.49 | 00.0 | 1.47 | 0.01 | 0.01 | 1.97 | 1.87 | 0.07 | 0.02 | 0.00 | 00.00 | 0.00 |
| 0.02 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| 2.21 | 2.21 | 2.04 | 0.09 | 0.08 | 0.00 | 0.00 | 0.00 | 3.86 | 1.85 | 0.00 | 1.60 | 0.01 | 0.03 | 2.21 | 2.04 | 0.09 | 0.08 | 0.00 | 0.00 | 0.00 |
| 2.14 | 2.14 | 2.04 | 0.08 | 0.03 | 00.00 | 0.00 | 0.00 | 3.77 | 1.62 | 0.00 | 1.60 | 0.01 | 0.01 | 2.14 | 2.04 | 0.08 | 0.03 | 0.00 | 00.00 | 0.00 |
| 0.07 | 0.07 | 0.00 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.00 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 36.24 | 35.79 | 17.47 | 1.87 | 7 16.45 | 3 0.45 | 0.00 | 3 0.45 | 53.89 | 17.65 | 0.00 | , 10.63 | 0.10 | 6.92 | 35.79 | 17.47 | 1.87 | 16.45 | 3 0.45 | 0.00 | 0.45 |
| 0 39.13 | 1 39.10 | 1 35.94 | 5 2.09 | 4 1.07 | 8 0.03 | 7 0.00 | 1 0.03 | 9 61.35 | 9 22.22 | 2 0.00 | 2 21.47 | 2 0.31 | 3 0.45 | 1 39.10 | 35.94 | 5 2.09 | 4 1.07 | 8 0.03 | 0.00 | 1 0.03 |
| 15.20 | 5.51 | 4.81 | 0.16 | 0.54 | 9.68 | 6.67 | 0.01 | 18.69 | 3.49 | 0.02 | 3.22 | 0.02 | 0.23 | 5.51 | 4.81 | 0.16 | 0.54 | 89'6 | 9.67 | 0.01 |
| Time Slice 1/1/2010-2/27/2010 Active Days: 50 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 3/1/2010-4/15/2010 Active Days: 40 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips |

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| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 13.17 | 22.25 | 18.10 | 0.01 | 0.03 | 1.62 | 1.65 | 0.01 | 1.49 | 1.50 | 2,330.22 |
|---|-------|-------|-------------------|-------|-------|------|------|------|------|------|----------|
| Asphaft 03/01/2010-05/31/2010 | 3.49 | 22.22 | 17.65 | 00.00 | 0.05 | 1.62 | 1.65 | 0.01 | 1.49 | 1.50 | 2,301.23 |
| Paving Off-Gas | 0.02 | 00'0 | 0.00 | 00:00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 21.47 | 10.63 | 00:00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| Paving On Road Diesel | 0.02 | 0.31 | 0.10 | 00.0 | 00.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 42.59 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 00.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.05 | 449.55 |
| Coating 11/15/2009-04/30/2010 | 9.68 | 0.03 | 0.45 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |
| Architectural Coating | 6.67 | 0.00 | 0.00 | 00:0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.0 |
| Coating Worker Trips | 0.01 | 0.03 | 0.45 | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |
| Time Slice 5/1/2010-5/31/2010 Active Days: 26 | 3.49 | 22.22 | 17.65 | 0.00 | 0.02 | 1.62 | 1,65 | 0.01 | 1.49 | 1.50 | 2,301.23 |
| Asphalt 03/01/2010-05/31/2010 | 3.49 | 22.22 | 17.65 | 00.00 | 0.02 | 1.62 | 1.65 | 0.01 | 1.49 | 1.50 | 2,301.23 |
| Paving Off-Gas | 0.02 | 00:0 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| Paving Off Road Diesel | 3.22 | 21.47 | 10.63 | 0.00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| Paving On Road Diesel | 0.02 | 0.31 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 42.59 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| | | Phase | Phase Assumptions | | | | | | | | |

Phase Assumptions

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

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

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

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

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

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

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 0.74

Off-Road Equipment:

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

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

PM2.5

PM2.5 Exhaust

PM2.5 Dust

PM10

PM10 Exhaust

PM10 Dust

<u>S02</u>

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ROG

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- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

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

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

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| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | 11.97 | 179.40 | 64.71 | 9.21 | 164.58 | <u>6.55</u> | 171.12 | 34.33 | <u>6.02</u> | 40.35 | 22,764,56 |
|---|-------|--------|-------|------|-----------|-------------|--------|-------|-------------|-------|-----------|
| Demolition 06/01/2009- 06/15/2009 | 11.97 | 179.40 | 64.71 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 | 22,764.56 |
| Fugitive Dust | 0.00 | 00.0 | 0.00 | 0.00 | 163.80 | 0.00 | 163.80 | 34.07 | 0.00 | 34.07 | 00.00 |
| Demo Off Road Diesel | 1.23 | 6.93 | 4.78 | 0.00 | 0.00 | 0.05 | 0.05 | 00.00 | 9.0 | 0.04 | 700.30 |
| Demo On Road Diesel | 10.59 | 172.19 | 55.69 | 0.20 | 0.76 | 6.49 | 7.25 | 0.25 | 5.97 | 6.22 | 21,807.55 |
| Demo Worker Trips | 0.14 | 0.28 | 4.23 | 0.00 | 0.01 | 0.01 | 0.02 | 00.00 | 0.01 | 0.01 | 256.72 |
| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 1.0 24 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Mass Grading On Road Diesel | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |

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| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 14.85 | 104.64 | 75.66 | 0.01 | 2.15 | 0.46 | 2.61 | 0.46 | 0.42 | 0.88 | 11,624.63 |
|---|-------|--------|-------|-------|------|------|------|-------|------|------|-----------|
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 00.00 | 0.20 | 0.20 | 5,234.71 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 90.0 | 0.01 | 0.01 | 0.02 | 577.61 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 7/17/2009-7/31/2009 Active Days: 13 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Fine Grading On Road Diesel | 00.0 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 9.0 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 8/1/2009-11/14/2009 Active Days: 91 | 5.87 | 36.02 | 37.38 | 0.01 | 0.07 | 0.28 | 0.35 | 0.02 | 0.26 | 0.28 | 4,968.23 |
| Building 08/01/2009-04/15/2010 | 5.87 | 36.02 | 37.38 | 0.01 | 0.07 | 0.28 | 0.35 | 0.02 | 0.26 | 0.28 | 4,968.23 |
| Building Off Road Diesel | 5.11 | 32.58 | 17.77 | 0.00 | 0.00 | 0.17 | 0.17 | 0.00 | 0.15 | 0.15 | 3,502.14 |
| Building Vendor Trips | 0.17 | 2.28 | 2.00 | 00:00 | 0.01 | 60.0 | 0.10 | 0.01 | 0.08 | 0.08 | 398.15 |
| Building Worker Trips | 0.59 | 1.15 | 17.60 | 0.01 | 0.05 | 0.03 | 0.08 | 0.02 | 0.02 | 9.0 | 1,067.94 |

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| 0.28 4,997.19 | 0.28 4,968.23 | 0.15 3,502.14 | 0.08 398.15 | 0.04 1,067.94 | 0.00 28.97 | 0.00 | 0.00 28.97 | 0.26 4,998.01 | 0.26 4,969.02 | | 0.08 398.25 | 0.04 1,068.64 | 0.00 28.99 | 0.00 0.00 | 0.00 28.99 |
|---|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| 0.26 | 0.26 | 0.15 | 0.08 | 0.02 | 0.00 | 0.00 | 00:0 | 0.24 | 0.24 | 0.14 | 0.07 | 0.05 | 0.00 | 0.00 | 00:00 |
| 0.02 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| 0.35 | 0.35 | 0.17 | 0.10 | 0.08 | 0.00 | 0.00 | 0.00 | 0.33 | 0.33 | 0.15 | 0.09 | 0.08 | 0.00 | 0.00 | 0.00 |
| 0.28 | 0.28 | 0.17 | 0.09 | 0.03 | 00.00 | 0.00 | 0.00 | 0.26 | 0.26 | 0.15 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 |
| 0.07 | 0.07 | 00.00 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.07 | 0.02 | 0.00 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 37.85 | 37.38 | 17.77 | 2.00 | 17.60 | 0.48 | 0.00 | 0.48 | 36.24 | 35.79 | 17.47 | 1.87 | 16.45 | 0.45 | 0.00 | 0.45 |
| 36.05 | 36.02 | 32.58 | 2.28 | 1.15 | 0.03 | 0.00 | 0.03 | 33.74 | 33.71 | 30.55 | 2.09 | 1.07 | 0.03 | 0.00 | 0.03 |
| 8.37 | 5.87 | 5.11 | 0.17 | 0.59 | 2.49 | 2.48 | 0.02 | 11.75 | 5.51 | 4.81 | 0.16 | 0.54 | 6.24 | 6.22 | 0.01 |
| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 1/1/2010-2/27/2010 Active Days: 50 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips |

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| 11 Ct.to. 1 000 1 1 0 1 | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|------|-------|------|------|----------|
| Time Slice 3/1/2010-4/15/2010 Active Days: 40 | 15.24 | 52.74 | 53.89 | 0.02 | 60'0 | 0.40 | 0.50 | 0.03 | 0.37 | 0.40 | 7,299.24 |
| Asphalt 03/01/2010-05/31/2010 | 3.49 | 19.00 | 17.65 | 0.00 | 0.02 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,301.23 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.02 | 0.31 | 0.10 | 0.00 | 00.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 42.59 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Building 08/01/2009-04/15/2010 | 5.51 | 33.71 | 35.79 | 0.01 | 0.07 | 0.26 | 0.33 | 0.02 | 0.24 | 0,26 | 4,969.02 |
| Building Off Road Diesel | 4.81 | 30.55 | 17.47 | 0.00 | 00.00 | 0.15 | 0.15 | 00.00 | 0.14 | 0.14 | 3,502.14 |
| Building Vendor Trips | 0.16 | 2.09 | 1.87 | 0.00 | 0.01 | 0.08 | 0.09 | 0.01 | 0.07 | 0.08 | 398.25 |
| Building Worker Trips | 0.54 | 1.07 | 16.45 | 0.01 | 0.05 | 0.03 | 90.0 | 0.02 | 0.02 | 90.0 | 1,068.64 |
| Coating 11/15/2009-04/30/2010 | 6.24 | 0.03 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |
| Architectural Coating | 6.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.03 | 0.45 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 9.73 | 19.03 | 18.10 | 0.01 | 0.03 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,330.22 |
| Asphalt 03/01/2010-05/31/2010 | 3.49 | 19.00 | 17.65 | 0.00 | 0.02 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,301.23 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 00.0 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.02 | 0.31 | 0.10 | 00.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 42.59 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 00.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Coating 11/15/2009-04/30/2010 | 6.24 | 0.03 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |
| Architectural Coating | 6.22 | 00:00 | 00.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.03 | 0.45 | 00.00 | 00'0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.99 |

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| Time Slice 5/1/2010-5/31/2010 Active Days: 26 | 3.49 | 19.00 | 17.65 | 0.00 | 0.02 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,301.2 |
|--|------|-------|-------|------|------|------|------|------|------|------|---------|
| Asphalt 03/01/2010-05/31/2010 | 3.49 | 19.00 | 17.65 | 0.00 | 0.02 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,301.2 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.0 |
| Paving On Road Diesel | 0.02 | 0.31 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 42.5 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.5 |

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Construction Related Mitigation Measures

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

or 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 Fifter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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or 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%

or 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%

or 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%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

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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 Ther 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 Ther mitigation reduces emissions by:

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

For Concrete/Industrial Saws, the Use Aqueous Diesel Fuel mitigation reduces emissions by PM10: 85% PM25: 85%

For Concrete/Industrial Saws, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: NOX: 15% PM10: 50% PM25: 50%

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | XON | 8 | <u>\$02</u> | PM10 | PM2.5 | <u>CO2</u> |
|-------------------------------|------|------|------|-------------|-------|-------|------------|
| Natural Gas | 0.03 | 0.43 | 0.36 | 0.00 | 00.00 | 0.00 | 520.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.38 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.53 | 0.45 | 1.91 | 0.00 | 0.01 | 0.01 | 522.81 |

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Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Area Source Mitigation Measures Selected

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

Area Source Changes to Defaults

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

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| C02 | 161,223.64 | 161,223.64 |
|--------|------------|-------------------------------|
| PM25 | 55.21 | 55.21 |
| PM10 | 283.68 | 283.68 |
| SO2 | 1.57 | 1.57 |
| 0 | 2,821.69 | 2,821.69 |
| NOX | 292.49 | 292.49 |
| ROG | 211.88 | 211.88 |
| Source | Casino | TOTALS (lbs/day, unmitigated) |

10/14/2008 11:04:45 AM

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

| CO2 | 161,223.64 | 161,223.64 |
|--------|------------|-----------------------------|
| PM25 | 55.21 | 55.21 |
| PM10 | 283.68 | 283.68 |
| \$02 | 1.57 | 1.57 |
| 00 | 2,821.69 | 2,821.69 |
| XON | 292.49 | 292.49 |
| ROG | 211.88 | 211.88 |
| Source | Casino | TOTALS (lbs/day, mitigated) |

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

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

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year, 2010 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

| | Number | oummary or Land Use | SS | | | |
|---------------|---------|---------------------|------------|-----------|-------------|------------|
| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
| Casino | | 92.95 | 1000 sq ft | 65.00 | 6,041.75 | 164,144.68 |
| | | | | | 6,041.75 | 164,144.68 |

10/14/2008 11:04:45 AM

28.0 35.0 Customer 0.5 36.0 58.3 100.0 100.0 0.0 100.0 10,0 1. 66.7 0.0 28.0 35.0 Non-Work Commercial 0.0 0.0 0.0 85.0 Catalyst 86.5 98.0 8.76 64.0 41.7 22.2 0.0 32.8 97.0 9.5 28.0 35.0 Commute 0.0 67.2 0.0 0.0 1.1 0.0 0.0 0.0 Non-Catalyst --28.0 35.0 Home-Other 49.1 Travel Conditions Vehicle Fleet Mix Home-Shop 28.0 35.0 18.0 19.6 2.5 1.2 6.0 6.0 0.1 0.0 6.4 Percent Type 32.7 9.1 0.1 Residential 10.8 28.0 35.0 32.9 Home-Work Heavy-Heavy Truck 33,001-60,000 lbs Med-Heavy Truck 14,001-33,000 lbs Lite-Heavy Truck 10,001-14,000 lbs Lite-Heavy Truck 8501-10,000 lbs Light Truck 3751-5750 lbs Med Truck 5751-8500 lbs Urban Trip Length (miles) Rural Trip Length (miles) % of Trips - Residential Light Truck < 3750 lbs Trip speeds (mph) Vehicle Type Motor Home School Bus Motorcycle Urban Bus Light Auto Other Bus

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Travel Conditions

Residential

Commercial

Customer Non-Work Commute Home-Other Home-Shop Home-Work

% of Trips - Commercial (by land use)

92.5

2.5

5.0

Operational Changes to Defaults

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

Casino

Home-based work rural trip length changed from 16.8 miles to 28 miles

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

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

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

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

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

10/14/2008 11:21:42 AM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | Ň | 임 | <u>807</u> | PM10 Dust PM10 Exhaust | 0 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2,5 | <u>C02</u> |
|-------------------------------------|-------|-------|-------|------------|------------------------|-----------|-------|------------|------------------|-------|------------|
| 2012 TOTALS (tons/year unmitigated) | 0.68 | 1.35 | 1.64 | 0.00 | 0.46 | 0.08 | 0.55 | 0.10 | 0.08 | 0.17 | 197.69 |
| 2012 TOTALS (tons/year mitigated) | 0.38 | 1.16 | 1.64 | 00.00 | 0.04 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 197.69 |
| Percent Reduction | 43.86 | 13.89 | 0.00 | 00.00 | 92.35 | 88.82 | 91.81 | 91.93 | 89.01 | 90.65 | 0.00 |
| | | | | | | | | | | | |
| 2013 TOTALS (tons/year unmitigated) | 1.17 | 1.20 | 1.48 | 0.00 | 0.00 | 0.09 | 0.09 | 00.00 | 0.08 | 0.08 | 178.85 |
| 2013 TOTALS (tons/year mitigated) | 0.82 | 1.04 | 1.48 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 178.85 |
| Percent Reduction | 29.81 | 13.92 | 00.00 | 0.00 | 00:00 | 89.27 | 86.49 | 0.00 | 89.45 | 88.34 | 0.00 |

10/14/2008 11:22:03 AM

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

| 202 | 4,987.52 | 4,987.52 | 4,192.63 | 4,192.63 |
|------------------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| PM2.5 | 8.02 | 0.64 | 1.99 | 0.22 |
| PM2.5 Exhaust | 1.99 | 0.19 | 1.97 | 0.20 |
| PM2.5 Dust | 6.03 | 0.44 | 0.02 | 0.02 |
| PM10 | 31.02 | 2.30 | 2.20 | 0.28 |
| 0 Exhaust | 2.17 | 0.21 | 2.14 | 0.22 |
| PM10 Dust PM10 Exhaust | 28.85 | 2.08 | 0.06 | 90.0 |
| 802 | 0.01 | 0.01 | 0.01 | 0.01 |
| 엉 | 36.65 | 36.65 | 34.46 | 34.46 |
| NOX | 38.46 | 32.95 | 29.43 | 25.31 |
| ROG | 22.82 | 8.98 | 24.96 | 17.76 |
| | 2012 TOTALS (lbs/day unmitigated) | 2012 TOTALS (lbs/day mitigated) | 2013 TOTALS (lbs/day unmitigated) | 2013 TOTALS (lbs/day mitigated) |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| ROG NOx | 읺 | 203 | PM10 Dust | PM10 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | CO2 |
|---------|---|-----|-----------|--------------|------|------------|---------------|-------|-----|
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| 2,349.22 | 2,349.22 | 0.00 | 2,247.32 | 0.00 | 101.91 | 2,349.22 | 2,349.22 | 0.00 | 2,247.32 | 0.00 | 101.91 | 4.987.52 | 2,638.29 | 1,621.20 | 201.85 | 815.25 | 2,349.22 | 0.00 | 2,247.32 | 0.00 | 101.91 |
|--|--|-------------------|------------------------------|-----------------------------|---------------------------|--|--|-------------------|------------------------------|------------------------------|---------------------------|--|--------------------------------|--------------------------|-----------------------|-----------------------|--|-------------------|------------------------------|-----------------------------|---------------------------|
| 7.00 | 7.00 | 6.01 | 0.99 | 0.00 | 0.00 | 7.00 | 7.00 | 6.01 | 0.99 | 0.00 | 0.00 | 8.02 | 1.02 | 0.95 | 0.03 | 0.03 | 7.00 | 6.01 | 66.0 | 0.00 | 0.00 |
| 66.0 | 0.99 | 0.00 | 66.0 | 0.00 | 0.00 | 0.99 | 0.99 | 0.00 | 66.0 | 0.00 | 0.00 | 1.99 | 1.00 | 0.95 | 0.03 | 0.02 | 0.99 | 0.00 | 66.0 | 0.00 | 0.00 |
| 6.02 | 6.02 | 6.01 | 0.00 | 0.00 | 0.00 | 6.02 | 6.02 | 6.01 | 0.00 | 0.00 | 0.00 | 6.03 | 0.02 | 0.00 | 0.00 | 0.01 | 6.02 | 6.01 | 0.00 | 0.00 | 0.00 |
| 29.88 | 29.88 | 28.80 | 1.07 | 0.00 | 0.01 | 29.88 | 29.88 | 28.80 | 1.07 | 0.00 | 0.01 | 31.02 | 1.14 | 40. | 0.04 | 90.0 | 29.88 | 28.80 | 1.07 | 0.00 | 0.01 |
| 1.07 | 1.07 | 0.00 | 1.07 | 0.00 | 0.00 | 1.07 | 1.07 | 0.00 | 1.07 | 0.00 | 0.00 | 2.17 | 1.09 | 1.04 | 0.03 | 0.02 | 1.07 | 0.00 | 1.07 | 0.00 | 0.00 |
| 28.80 | 28.80 | 28.80 | 0.00 | 0.00 | 0.00 | 28.80 | 28.80 | 28.80 | 0.00 | 0.00 | 0.00 | 28.85 | 90.0 | 0.00 | 0.01 | 0.0 | 28.80 | 28.80 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00.0 | 00.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13.04 | 13.04 | 00.00 | 11.51 | 0.00 | 1.53 | 13.04 | 13.04 | 00:00 | 11.51 | 0.00 | 1.53 | 36.65 | 23.61 | 10.52 | 0.88 | 12.22 | 13.04 | 0.00 | 11.51 | 0.00 | 1.53 |
| 22.04 | 22.04 | 0.00 | 21.95 | 0.00 | 60'0 | 22.04 | 22.04 | 0.00 | 21.95 | 0.00 | 60.0 | 38.46 | 16.42 | 14.81 | 98.0 | 0.75 | 22.04 | 00.00 | 21.95 | 0.00 | 60.0 |
| 2.75 | 2.75 | 0.00 | 2.69 | 00.00 | 90.0 | 2.75 | 2.75 | 0.00 | 2.69 | 0.00 | 90.0 | 6.43 | 3.68 | 3.14 | 0.08 | 0.47 | 2.75 | 0.00 | 2.69 | 0.00 | 90:0 |
| Time Slice 6/1/2012-6/29/2012 Active Days: 21 | Mass Grading 06/01/2012- 07/01/2012 | Mass Grading Dust | Mass Grading Off Road Diesel | Mass Grading On Road Diesel | Mass Grading Worker Trips | Time Slice 7/2/2012-7/13/2012 Active Days: 10 | Fine Grading 07/01/2012- 07/16/2012 | Fine Grading Dust | Fine Grading Off Road Diesel | Fine Grading Orı Road Diesel | Fine Grading Worker Trips | Time Slice 7/16/2012-7/16/2012 Active Days: 1 | Building 07/16/2012-05/15/2013 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Fine Grading 07/01/2012- 07/16/2012 | Fine Grading Dust | Fine Grading Off Road Diesel | Fine Grading On Road Diesel | Fine Grading Worker Trips |

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| 2,638.29 | 2,638.29 | 1,621.20 | 201.85 | 815.25 | 2,661.04 | 2,638.29 | 1,621.20 | 201.85 | 815.25 | 22.75 | 0.00 | 22.75 | 2,661.58 | 2,638.82 | 1,621.20 | 201.89 | 815.73 | 22.76 | 0.00 | 22.76 |
|--|--------------------------------|--------------------------|-----------------------|-----------------------|--|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| 1.02 | 1.02 | 0.95 | 0.03 | 0.03 | 1.02 | 1.02 | 0.95 | 0.03 | 0.03 | 00.00 | 0.00 | 00.00 | 0.92 | 0.92 | 98.0 | 0.03 | 0.03 | 0.00 | 00.00 | 0.00 |
| 1.00 | 1.00 | 0.95 | 0.03 | 0.02 | 1.00 | 1.00 | 0.95 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.90 | 06.0 | 98.0 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 |
| 0.02 | 0.02 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 00.00 | 0.00 |
| 1.14 | 1.14 | 40. | 0.0 | 90.0 | 1.14 | 1.14 | 1.04 | 0.04 | 90.0 | 0.00 | 0.00 | 0.00 | 1.03 | 1.03 | 0.93 | 0.04 | 90.0 | 0.00 | 0.00 | 0.00 |
| 1.09 | 1.09 | <u>4</u> | 0.03 | 0.02 | 1.09 | 1.09 | 2. | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.98 | 96.0 | 0.93 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 |
| 0.05 | 0.05 | 00.00 | 0.01 | 0.04 | 0.05 | 90.0 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.0 | 0.00 | 0.00 | 0.00 |
| 0.01 | 0.01 | 00.00 | 00.00 | 0.01 | 0.01 | 0.01 | 0.00 | 00.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 00.00 | 0.00 |
| 23.61 | 23.61 | 10.52 | 0.88 | 12.22 | 23.95 | 23.61 | 10.52 | 0.88 | 12.22 | 0.34 | 0.00 | 0.34 | 22.62 | 22.31 | 10.20 | 0.81 | 11.30 | 0.32 | 0.00 | 0.32 |
| 16.42 | 16.42 | 14.81 | 0.86 | 0.75 | 16.44 | 16.42 | 14.81 | 0.86 | 0.75 | 0.02 | 0.00 | 0.02 | 15.38 | 15.36 | 13.91 | 0.77 | 69'0 | 0.02 | 0.00 | 0.02 |
| 3.68 | 3.68 | 3.14 | 0.08 | 0.47 | 22.82 | 3.68 | 3.14 | 0.08 | 0.47 | 19.14 | 19.13 | 0.01 | 22.51 | 3.38 | 2.88 | 20.0 | 0.43 | 19.14 | 19.13 | 0.01 |
| Time Slice 7/17/2012-10/31/2012 Active Days: 77 | Building 07/16/2012-05/15/2013 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Time Slice 11/1/2012-12/31/2012 Active Days: 43 | Building 07/16/2012-05/15/2013 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/01/2012-05/15/2013 | Architectural Coating | Coating Worker Trips | Time Slice 1/1/2013-2/28/2013 Active Days: 43 | Building 07/16/2012-05/15/2013 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/01/2012-05/15/2013 | Architectural Coating | Coating Worker Trips |

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| Time Slice 3/1/2013-5/15/2013 Active Days: 54 | 24.96 | 29.43 | 34.46 | 0.01 | 90:0 | 2.14 | 2.20 | 0.02 | 1.97 | 1.99 | 4,192.63 |
|---|-------|-------|-------|-------|------|------|------|-------|------|------|----------|
| Asphalt 03/01/2013-05/30/2013 | 2.44 | 14.05 | 11.84 | 0.00 | 0.01 | 1.16 | 1.17 | 0.00 | 1.07 | 1.07 | 1,531.06 |
| Paving Off-Gas | 0.12 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 2.19 | 13.60 | 8.91 | 0.00 | 0.00 | 1.15 | 1.15 | 0.00 | 1.05 | 1.05 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0.11 | 0.17 | 2.82 | 00.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 203.93 |
| Building 07/16/2012-05/15/2013 | 3.38 | 15.36 | 22.31 | 0.01 | 0.05 | 0.98 | 1.03 | 0.02 | 06.0 | 0.92 | 2,638.82 |
| Building Off Road Diesel | 2.88 | 13.91 | 10.20 | 00.00 | 0.00 | 0.93 | 0.93 | 0.00 | 98.0 | 0.86 | 1,621.20 |
| Building Vendor Trips | 0.07 | 0.77 | 0.81 | 00:00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.89 |
| Building Worker Trips | 0.43 | 0.69 | 11.30 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.73 |
| Coating 11/01/2012-05/15/2013 | 19.14 | 0.02 | 0.32 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Architectural Coating | 19.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.32 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Time Slice 5/16/2013-5/30/2013 Active Days: 11 | 2.44 | 14.05 | 11.84 | 0.00 | 0.01 | 1.16 | 1.17 | 0.00 | 1.07 | 1.07 | 1,531.06 |
| Asphalt 03/01/2013-05/30/2013 | 2.44 | 14.05 | 1.8 | 00.00 | 0.01 | 1.16 | 1.17 | 0.00 | 1.07 | 1.07 | 1,531.06 |
| Paving Off-Gas | 0.12 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 2.19 | 13.60 | 8.91 | 00.00 | 0.00 | 1.15 | 1.15 | 0.00 | 1.05 | 1.05 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 00.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0.11 | 0.17 | 2.82 | 0.00 | 0.01 | 0.01 | 0.02 | 00.00 | 0.00 | 0.01 | 203.93 |

Phase Assumptions

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

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 3

Off-Road Equipment:

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

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

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

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

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

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Phase: Building Construction 7/16/2012 - 5/15/2013 - Default Building Construction Description Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 11/1/2012 - 5/15/2013 - Default Architectural Coating Description Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 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 | XON | 8 | 802 | PM10 Dust | PM10 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | 202 |
|--|------|-------|-------|------|-----------|--------------|------|------------|---------------|-------|----------|
| Time Slice 6/1/2012-6/29/2012 Active Days: 21 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Mass Grading 06/01/2012- 07/01/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 00:00 | 2.03 | 0.42 | 0.00 | 0.42 | 00.00 |
| Mass Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.07 | 0.07 | 2,247.32 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 90.0 | 0.09 | 1.53 | 0.00 | 00.0 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 101.91 |

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| Time Slice 7/2/2012-7/13/2012 Active Days: 10 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
|--|-------|-------|-------|------|-------|------|-------|-------|-------|-------|----------|
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Fine Grading Dust | 0.00 | 00:00 | 00'0 | 0.00 | 2.03 | 0.00 | 2.03 | 0.42 | 0.00 | 0.42 | 0.00 |
| Fine Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 00.00 | 0.08 | 0.08 | 0.00 | 0.07 | 0.07 | 2,247.32 |
| Fine Grading On Road Diesel | 00.00 | 00.00 | 00'0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00:00 | 00.0 |
| Fine Grading Worker Trips | 90.0 | 60'0 | 1,53 | 0.00 | 00.00 | 0.00 | 0.01 | 00.00 | 00.00 | 00.00 | 101.91 |
| Time Slice 7/16/2012-7/16/2012 Active Days: 1 | 6.43 | 32.95 | 36.65 | 0.01 | 2.08 | 0.21 | 2.30 | 0.44 | 0.19 | 0.64 | 4,987,52 |
| Building 07/16/2012-05/15/2013 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 12.59 | 10.52 | 0.00 | 00.00 | 0.08 | 0.08 | 00.0 | 0.07 | 0.07 | 1,621.20 |
| Building Vendor Trips | 0.08 | 0.86 | 0.88 | 0.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Fine Grading Dust | 0.00 | 00:00 | 0.00 | 0.00 | 2.03 | 0.00 | 2.03 | 0.42 | 00:0 | 0.42 | 00.00 |
| Fine Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 00.00 | 0.08 | 0.08 | 00.00 | 0.07 | 0.07 | 2,247.32 |
| Fine Grading On Road Diesel | 0.00 | 00:00 | 00'0 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 90.0 | 0.09 | 1.53 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 00:0 | 0.00 | 101.91 |
| Time Slice 7/17/2012-10/31/2012 Active Days: 77 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building 07/16/2012-05/15/2013 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 12.59 | 10.52 | 0.00 | 0.00 | 0.08 | 0.08 | 00.00 | 0.07 | 0.07 | 1,621.20 |
| Building Vendor Trips | 0.08 | 98'0 | 0.88 | 0.00 | 0.01 | 0.03 | 0.04 | 00:0 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0,47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
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|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| Time Slice 3/1/2013-5/15/2013 Active Days: 54 | 17.76 | 25.31 | 34.46 | 0.01 | 90.0 | 0.22 | 0.28 | 0.02 | 0.20 | 0.22 | 4,192,63 |
| Asphalt 03/01/2013-05/30/2013 | 2.44 | 12.01 | 11.84 | 0.00 | 0.01 | 0.10 | 0.11 | 0.00 | 60.0 | 0.10 | 1,531.06 |
| Paving Off-Gas | 0.12 | 00.0 | 00.00 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| Paving Off Road Dieset | 2.19 | 11.56 | 8.91 | 0.00 | 0.00 | 0.09 | 60.0 | 0.00 | 0.08 | 0.08 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0.11 | 0.17 | 2.82 | 0.00 | 0.01 | 0.01 | 0.02 | 00.00 | 00'0 | 0.01 | 203.93 |
| Building 07/16/2012-05/15/2013 | 3.38 | 13.27 | 22.31 | 0.01 | 0.05 | 0.12 | 0.17 | 0.02 | 0.11 | 0.12 | 2,638.82 |
| Building Off Road Diesel | 2.88 | 11.82 | 10.20 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 90.0 | 90.0 | 1,621.20 |
| Building Vendor Trips | 0.07 | 0.77 | 0.81 | 00:00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.89 |
| Building Worker Trips | 0.43 | 69.0 | 11.30 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.73 |
| Coating 11/01/2012-05/15/2013 | 11.94 | 0.02 | 0.32 | 00:0 | 0.00 | 0.00 | 00.00 | 0.00 | 00:00 | 00:00 | 22.76 |
| Architectural Coating | 11.93 | 0.00 | 0.00 | 00:0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.32 | 0:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Time Slice 5/16/2013-5/30/2013 Active Days: 11 | 2.44 | 12.01 | 11.84 | 00:00 | 0.01 | 0.10 | 0.11 | 0.00 | 60.0 | 0.10 | 1,531.06 |
| Asphalt 03/01/2013-05/30/2013 | 2.44 | 12.01 | 11.84 | 0.00 | 0.01 | 0.10 | 0.11 | 0.00 | 60.0 | 0.10 | 1,531.06 |
| Paving Off-Gas | 0.12 | 0.00 | 00.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 2.19 | 11.56 | 8.91 | 00.00 | 0.00 | 60:0 | 0.09 | 0.00 | 90.0 | 0.08 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0.11 | 0.17 | 2.82 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 203.93 |

Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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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%

or Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

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PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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| | ROG | Ň | 8 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> | |
|--|-------|-------|--------|------------|-------|-------|------------|--|
| TOTALS (tons/year, unmitigated) | 0.25 | 0.44 | 0.65 | 0.00 | 00.00 | 00.00 | 533.41 | |
| TOTALS (tons/year, mitigated) | 0.25 | 0.36 | 0.58 | 0.00 | 00.00 | 0.00 | 426.83 | |
| Percent Reduction | 0.00 | 18.18 | 10.77 | NaN | NaN | NaN | 19.98 | |
| | | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | | |
| | ROG | XON | 8 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> | |
| TOTALS (tons/year, unmitigated) | 36.50 | 52.87 | 427.31 | 0.30 | 55.99 | 10.78 | 30,814.96 | |
| TOTALS (tons/year, mitigated) | 36.50 | 52.87 | 427.31 | 0.30 | 55.99 | 10.78 | 30,814.96 | |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | |

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| <u>ROG</u> 36.75 |
|---------------------|
| 36.75 |
| 0.00 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | <u>ROG</u> | Ň | 8 | 302 | PM10 | PM2.5 | C02 |
|---|------------|--------|----------|------------|--------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 1.54 | 2.47 | 5.13 | 0.00 | 0.01 | 0.01 | 2,925.62 |
| TOTALS (lbs/day, mitigated) | 1.50 | 1.99 | 4.73 | 0.00 | 0.01 | 0.01 | 2,341.62 |
| Percent Reduction | 2.60 | 19.43 | 7.80 | NaN | 0.00 | 0.00 | 19.96 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NOX | 잉 | <u>805</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 178.36 | 247.43 | 2,303.17 | 1.71 | 306.81 | 59.08 | 176,155.31 |
| TOTALS (lbs/day, mitigated) | 178.36 | 247.43 | 2,303.17 | 1.71 | 306.81 | 59.08 | 176,155.31 |
| Percent Reduction | 0.00 | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | STIMATES | | | | | | |
| | ROG | XON | 잉 | 803 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 179.90 | 249.90 | 2,308.30 | 1.71 | 306.82 | 59.09 | 179,080.93 |
| TOTALS (lbs/day, mitigated) | 179.86 | 249.42 | 2,307.90 | 1.71 | 306.82 | 59.09 | 178,496.93 |
| Percent Reduction | 0.02 | 0.19 | 0.02 | 0.00 | 0.00 | 0.00 | 0.33 |

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | ×ON | 엉 | <u>805</u> | PM10 | PM2.5 | <u>CO2</u> |
|---|-------------------|----------------|-------------|------------|------|-------|------------|
| Natural Gas | 0.18 | 2.43 | 2.04 | 0.00 | 0.00 | 0.00 | 2,920.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 1.11 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 1.54 | 2.47 | 5.13 | 0.00 | 0.01 | 0.01 | 2,925.62 |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | nmer Pounds Per C | Jay, Mitigated | | | | | |
| Source | ROG | XON | 엉 | <u>802</u> | PM10 | PM2.5 | 700 |
| Natural Gas | 0.14 | 1.95 | 1.62 | 0.00 | 0.00 | 00.00 | 2,336.00 |

Area Source Changes to Defaults

5.62

0.01

0.01

0.00

3.09

9.0

0.25 0.00 1.11

Hearth - No Summer Emissions

Landscape

2,341.62

0.01

0.01

0.00

4.73

1.99

TOTALS (lbs/day, mitigated)

Consumer Products Architectural Coatings Percentage of residences with wood stoves changed from 35% to 0%

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

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Operational Unmitigated Detail Report:

| OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated | Summer Pounds P | er Day, Unmitiga | ted | | | | |
|---|-----------------|------------------|----------|------|--------|-------|------------|
| Source | ROG | NOX | 00 | 802 | PM10 | PM25 | C02 |
| Hotel | 16.87 | 19.35 | 180.09 | 0.13 | 23.99 | 4.62 | 13,774.21 |
| Casino | 161.49 | 228.08 | 2,123.08 | 1.58 | 282.82 | 54.46 | 162,381.10 |
| TOTALS (lbs/day, unmitigated) | 178.36 | 247.43 | 2,303.17 | 1.71 | 306.81 | 59.08 | 176,155.31 |
| | | | | | | | |

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

| 005 | 13,774.21 | 162,381.10 | 176,155.31 |
|--------|-----------|------------|-----------------------------|
| PM25 | 4.62 | 54.46 | 80.69 |
| PM10 | 23.99 | 282.82 | 306.81 |
| 802 | 0.13 | 1.58 | 1.71 |
| 00 | 180.09 | 2,123.08 | 2,303.17 |
| NOX | 19.35 | 228.08 | 247.43 |
| ROG | 16.87 | 161.49 | 178.36 |
| Source | Hotel | Casino | TOTALS (lbs/day, mitigated) |

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year; 2013 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| 1000 sq ft 65.00 6,041.75 | and Use Type | Acreage | Trip Rate | Unit Type | No. Units 250.00 | Total Trips 512.50 | Total VMT |
|---------------------------|--------------|---------|-----------|------------|---------------------|-----------------------|------------|
| | | | 92.95 | 1000 sq ft | 65.00 | 6,041.75 | 164,144.68 |

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| | | Vehide Fleet Mix | t Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Auto | | 32.5 | 0.9 | | 98.8 | 0.3 |
| Light Truck < 3750 lbs | | 24.5 | 2.4 | | 89.4 | 8.2 |
| Light Truck 3751-5750 lbs | | 19.7 | 1.0 | | 98.5 | 0.5 |
| Med Truck 5751-8500 lbs | | 9.2 | 1.1 | | 87.8 | 1.1 |
| Lite-Heavy Truck 8501-10,000 ibs | | 2.5 | 0.0 | | 68.0 | 32.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 41.7 | 58.3 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 0.0 | | 22.2 | 77.8 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 6.0 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.4 | 54.7 | | 45.3 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 0.0 | | 85.0 | 15.0 |
| | | Travel Conditions | litions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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| | Commercial | Non-Work | | 2.5 | 2.5 |
|-------------------|-------------|----------------------|---------------------------------------|-------|--------|
| | | Commute | | 5.0 | 5.0 |
| tions | | Home-Other | | | |
| Travel Conditions | Residential | Home-Shop Home-Other | | | |
| | | Home-Work | | | |
| | | | % of Trips - Commercial (by land use) | | |
| | | | % of Trip | Hotel | Caeino |

Hote Casino

92.5

2.5

Customer

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Urbernis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOLIBOR EMISSION ESTIMATES

| AREA COURCE EMISSION ESTIMATES | | | | | | | |
|--|-------|-------|--------|-------------|-------|-------|------------|
| | ROG | NOX | 8 | <u>\$05</u> | PM10 | PM2.5 | 202 |
| TOTALS (tons/year, unmitigated) | 0.25 | 0.44 | 0.65 | 0.00 | 0.00 | 0.00 | 533.41 |
| TOTALS (tons/year, mitigated) | 0.25 | 0.36 | 0.58 | 0.00 | 0.00 | 0.00 | 426.83 |
| Percent Reduction | 0.00 | 18,18 | 10.77 | NaN | NaN | NaN | 19.98 |
| | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NOX | 0 | <u> </u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (tons/year, unmitigated) | 14.66 | 12.00 | 136.15 | 0.30 | 55.56 | 10.39 | 30,769.57 |
| TOTALS (tons/year, mitigated) | 14.66 | 12.00 | 136.15 | 0.30 | 55.56 | 10.39 | 30,769.57 |
| Percent Reduction | 0.00 | 00.0 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 |

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | ROG | Ň | 얾 | <u> 202</u> | PM10 | PM2.5 | <u>CO2</u> |
|---------------------------------|-------|-------|--------|-------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 14.91 | 12.44 | 136.80 | 0.30 | 55.56 | 10.39 | 31,302.98 |
| TOTALS (tons/year, mitigated) | 14.91 | 12.36 | 136.73 | 0.30 | 55.56 | 10.39 | 31,196.40 |
| Percent Reduction | 0.00 | 9.0 | 0.05 | 0.00 | 00:00 | 0.00 | 0.34 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | ROG | NON | 8 | <u>807</u> | PM10 | PM2.5 | 200 |
|---|-------------|-------|--------|------------|--------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 2 5. | 2.47 | 5.13 | 0.00 | 0.01 | 0.01 | 2,925.62 |
| TOTALS (lbs/day, mitigated) | 1.50 | 1.99 | 4.73 | 0.00 | 0.01 | 0.01 | 2,341.62 |
| Percent Reduction | 2.60 | 19.43 | 7.80 | NaN | 00.00 | 0.00 | 19.96 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NON | 0 | <u>802</u> | PM10 | PM2.5 | 203 |
| TOTALS (lbs/day, unmitigated) | 72.14 | 55.83 | 733.73 | 1.70 | 304.45 | 56.97 | 176,543.77 |
| TOTALS (lbs/day, mitigated) | 72.14 | 55.83 | 733.73 | 1.70 | 304.45 | 56.97 | 176,543.77 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 00.00 | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | STIMATES | | | | | | |
| | ROG | NOX | 8 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 73.68 | 58.30 | 738.86 | 1.70 | 304.46 | 96.99 | 179,469.39 |
| TOTALS (lbs/day, mitigated) | 73.64 | 57.82 | 738.46 | 1.70 | 304.46 | 56.98 | 178,885.39 |
| Percent Reduction | 0.05 | 0.82 | 0.05 | 00.0 | 0.00 | 0.00 | 0.33 |

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | Ň | 3 | <u>\$05</u> | PM10 | PM2.5 | <u>CO3</u> |
|---|--------------------|---------------|------|-------------|------|-------|------------|
| Natural Gas | 0.18 | 2.43 | 2.04 | 0.00 | 0.00 | 0.00 | 2,920.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 00:00 | | | | | | |
| Architectural Coatings | 1.11 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 1.54 | 2.47 | 5.13 | 0.00 | 0.01 | 0.01 | 2,925.62 |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | ımer Pounds Per Da | ay, Mitigated | | | | | |
| Source | ROG | NOX | 00 | 203 | PM10 | PM2.5 | C02 |
| Natural Gas | 0.14 | 1.95 | 1.64 | 0.00 | 0.00 | 0.00 | 2,336.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |

Area Source Changes to Defaults

2,341.62

0.01

0.01

0.00

4.73

1.99

1.50 1.11

TOTALS (lbs/day, mitigated)

Architectural Coatings

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| of Liverional Light Colling Local Colling of Colling of Colling Collin | | ay, orminigated | | | | | |
|--|-------|-----------------|--------|------|--------|-------|------------|
| Source | ROG | NOX | 9 | S02 | PM10 | PM25 | 005 |
| Hotel | 6.67 | 4.37 | 57.37 | 0.13 | 23.81 | 4.45 | 13,804.58 |
| Casino | 65.47 | 51.46 | 676.36 | 1.57 | 280.64 | 52.52 | 162,739.19 |
| TOTALS (lbs/day, unmitigated) | 72.14 | 55.83 | 733.73 | 1.70 | 304.45 | 26.97 | 176,543.77 |
| | | | | | | | |

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

| C02 | 13,804.58 | 162,739.19 | 176,543.77 |
|--------|-----------|------------|-----------------------------|
| PM25 | 4,45 | 52.52 | 26.97 |
| PM10 | 23.81 | 280.64 | 304.45 |
| 802 | 0.13 | 1.57 | 1.70 |
| 3 | 57.37 | 676.36 | 733.73 |
| NOX | 4.37 | 51.46 | 55.83 |
| ROG | 6.67 | 65.47 | 72.14 |
| Source | Hotel | Casino | TOTALS (lbs/day, mitigated) |

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
|---------------|---------|-----------|------------|-----------|-------------|------------|
| Hotel | | 2.05 | rooms | 250.00 | 512.50 | 13,923.80 |
| Casino | | 92.95 | 1000 sq ft | 65.00 | 6,041.75 | 164,144.68 |
| | | | | | 6,554.25 | 178,068.48 |

Page: 5

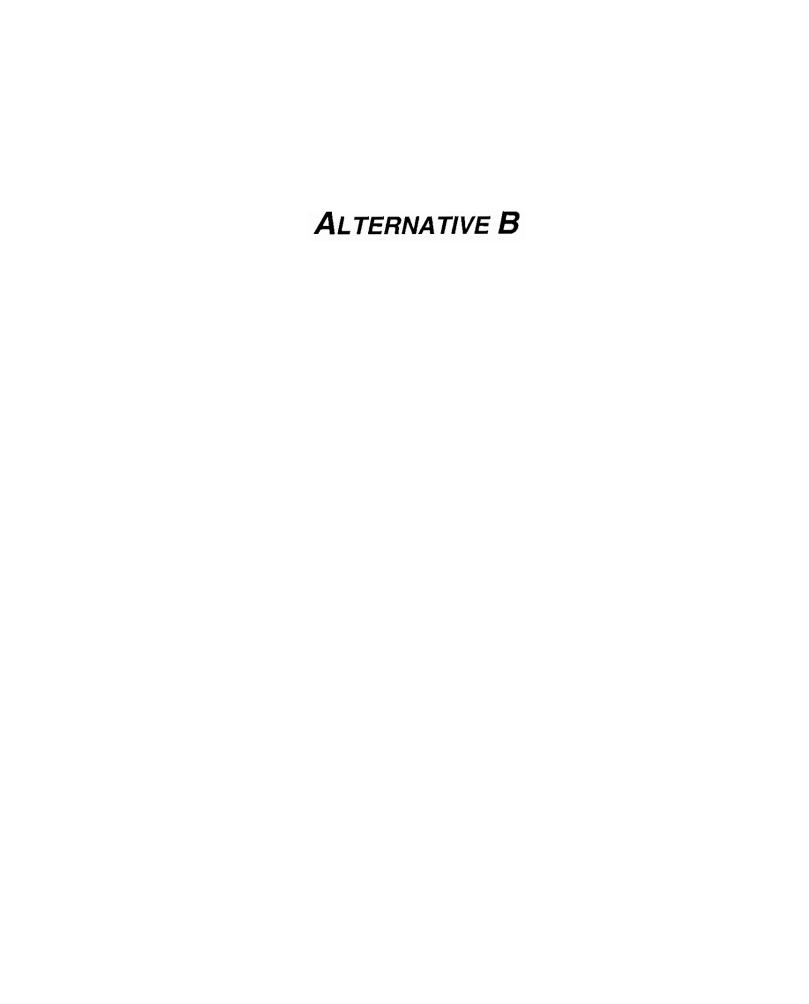
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| | | Vehicle Fleet Mix | <u>t Mix</u> | | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|--|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel | |
| Light Auto | | 32.8 | 0.0 | | 100.0 | 0.0 | |
| Light Truck < 3750 lbs | | 24.4 | 0.0 | | 99.2 | 0.8 | |
| Light Truck 3751-5750 lbs | | 19.8 | 0.0 | | 100.0 | 0.0 | |
| Med Truck 5751-8500 lbs | | 9.2 | 0.0 | | 100.0 | 0.0 | |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 80.0 | 20.0 | |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 58.3 | 41.7 | |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 0.0 | | 22.2 | 77.8 | |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 0.7 | 0.0 | | 0.0 | 100.0 | |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 | |
| Motorcycle | | 6.3 | 33.3 | | 2.99 | 0.0 | |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Motor Home | | 2.0 | 0.0 | | 0.06 | 10.0 | |
| | | Travel Conditions | ițions | | | | |
| | | Residential | | | Commercial | | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer | |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 | |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | | |

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



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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | NOX | 8 | <u>\$05</u> | PM10 Dust PM10 Exhaust | 110 Exhaust | <u>PM10</u> | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | <u>C02</u> |
|-------------------------------------|-------|-------|-------|-------------|------------------------|-------------|-------------|------------|------------------|-------|------------|
| 2009 TOTALS (tons/year unmitigated) | 0.75 | 5.11 | 3.33 | 0.00 | 1.38 | 0.26 | 1.63 | 0.29 | 0.24 | 0.52 | 568.97 |
| 2009 TOTALS (tons/year mitigated) | 0.64 | 4.54 | 3.33 | 0.00 | 1.10 | 90.0 | 1.16 | 0.23 | 90.0 | 0.29 | 268.97 |
| Percent Reduction | 14.43 | 11.18 | 0.00 | 00:00 | 20.48 | 75.08 | 29.03 | 20.46 | 75.10 | 45.02 | 0.00 |
| | | | | | | | | | | | |
| 2010 TOTALS (tons/year unmitigated) | 0.75 | 2.60 | 2.12 | 0.00 | 00.00 | 0.16 | 0.16 | 0.00 | 0.15 | 0.15 | 298.71 |
| 2010 TOTALS (tons/year mitigated) | 0.62 | 2.23 | 2.12 | 0.0 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.02 | 298.71 |
| Percent Reduction | 17.70 | 14.22 | 00:00 | 0:00 | 00.00 | 89.93 | 88.09 | 0.00 | 89.96 | 89.24 | 0.00 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | XON | 잉 | | PM10 | PM2.5 | <u>C07</u> | | | |
| TOTALS (tons/year, unmitigated) | | 90.0 | 90.0 | 0.19 | | 0.00 | 0.00 | 71.43 | | | |
| TOTALS (tons/year, mitigated) | | 90.0 | 0.05 | 0.18 | 0.00 | 0.00 | 0.00 | 57.19 | | | |
| Percent Reduction | | 0.00 | 16.67 | 5.26 | NaN | NaN | NaN | 19.94 | | | |

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| TOTALS (tons/year, unmitigated) TOTALS (tons/year, mitigated) | ROG 32.80 32.80 | NOX 46.95 46.95 | CO 396.16 396.16 | <u>\$02</u> 0.21 0.21 | PM10 38.83 38.83 | PM2.5 7.56 7.56 | CO2 21,174.78 21,174.78 |
|--|-----------------------|-----------------------|------------------------|-----------------------------|------------------------|-----------------------|-------------------------------|
| Percent Reduction | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | ION ESTIMAT | ES | | | | | |
| | ROG | NOX | 8 | 202 | PM10 | PM2.5 | <u>202</u> |
| TOTALS (tons/year, unmitigated) | 32.86 | 47.01 | 396.35 | 0.21 | 38.83 | 7.56 | 21,246.21 |
| TOTALS (tons/year, mitigated) | 32.86 | | 396.34 | 0.21 | 38.83 | 7.56 | 21,231.97 |
| Percent Reduction | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 |

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Urbernis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

| | ROG | Ň | g | 802 | PM10 Dust PM10 Exhaust | 110 Exhaust | PM10 | PM2.5 Dust | PM2.5 | PM2.5 | <u>CO2</u> |
|-----------------------------------|-------|--------|-------|------|------------------------|-------------|--------|------------|-------|-------|------------|
| 2009 TOTALS (lbs/day unmitigated) | 14.85 | 180.62 | 75.66 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| 2009 TOTALS (lbs/day mitigated) | 14.85 | 179.40 | 75.66 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 | 22,764.56 |
| A TOTAL OF CALL CALL | 9 | ç C | | 6 | 6 | | | ; | | , | |
| ZOTO TOTALS (IDS/day unmingated) | 16.08 | 60.48 | 81.8 | 0.02 | 0.08 | 3.74 | 3.81 | 0.03 | 3.44 | 3.46 | 6,914.91 |
| 2010 TOTALS (lbs/day mitigated) | 13.49 | 51.87 | 49.18 | 0.02 | 0.08 | 0.37 | 0.45 | 0.03 | 0.34 | 0.37 | 6,914.91 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | XON | 엉 | <u>\$02</u> | PM10 | PM2.5 | <u>coz</u> | | | |
| TOTALS (lbs/day, unmitigated) | | 0.43 | 0.34 | 1.82 | 0.00 | 0.01 | 0.01 | 392.81 | | | |
| TOTALS (ibs/day, mitigated) | | 0.43 | 0.28 | 1.7 | 0.00 | 0.01 | 0.01 | 314.81 | | | |
| Percent Reduction | | 0.00 | 17.65 | 2.75 | NaN | 0.00 | 0.00 | 19.86 | | | |

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| <u>CO2</u> | 120,917.73 | 120,917.73 | 00.0 | | <u>CO2</u> | 121,310.54 | 121,232.54 | 90.0 |
|------------|-------------------------------|-----------------------------|-------------------|--|------------|-------------------------------|-----------------------------|-------------------|
| PM2.5 | 41.41 | 41.41 | 00.00 | | PM2.5 | 41.42 | 41.42 | 00.00 |
| PM10 | 212.76 | 212.76 | 0.00 | | PM10 | 212.77 | 212.77 | 0.00 |
| <u>802</u> | 1.18 | 1.18 | 00.0 | | 202 | 1.18 | 1.18 | 00.00 |
| 0 | 2,116.27 | 2,116.27 | 00.0 | | 잉 | 2,118.09 | 2,118.04 | 0.00 |
| NOX | 219.37 | 219.37 | 0.00 | | NOX | 219.71 | 219.65 | 0.03 |
| ROG | 158.91 | 158.91 | 00.0 | ATIONAL EMISSION ESTIMATES | ROG | 159.34 | 159.34 | 0.00 |
| | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction | SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTI | | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| | ROG | Ň | 3 | <u>802</u> | PM10 Dust | | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | <u>CO2</u> |
|--|-------|--------|-------|------------|-----------|------|--------|------------|---------------|-------|------------|
| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | | 171.71 | 34.33 | | 40.89 | 22,764.56 |
| Demolition 06/01/2009- 06/15/2009 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | | 34.33 | 6.57 | 40.89 | 22,764.56 |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | 00'0 | 163.80 | | | 34.07 | | 34.07 | 0.00 |
| Demo Off Road Diesei | 1.23 | 8.15 | 4.78 | 00.0 | 0.00 | | | 0.00 | | 0.59 | 700.30 |
| Demo On Road Diesel | 10.59 | 172.19 | 55.69 | 0.20 | 0.76 | | | 0.25 | | 6.22 | 21,807.55 |
| Demo Worker Trips | 0.14 | 0.28 | 4.23 | 0.00 | 0.01 | | | 0.00 | | 0.01 | 256.72 |

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| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
|---|-------|--------|-------|------|-------|-------|-------|-------|------|-------|-----------|
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 00.00 | 0.00 | 0.00 | 0.00 | 14.80 | 00.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 00.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 14.85 | 122.88 | 75.66 | 0.01 | 29.66 | 5.79 | 35.45 | 6.20 | 5.33 | 11.53 | 11,624.63 |
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Fine Grading Dust | 00.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 00.00 | 2.65 | 2.65 | 5,234.71 |
| Fine Grading On Road Diesel | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.0 | 0.01 | 0.01 | 0.02 | 577.61 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 00.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.0 | 0.01 | 0.01 | 0.02 | 577.61 |

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5,812.32

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| 5.11 38.33 |
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| 0.44 0.87 |
| 12.95 40.93 |
| 5.68 40.91 |
| 5.11 38.33 |
| 0.13 1.71 |
| 0.44 0.87 |
| 7.26 0.02 |
| 7.25 0.00 |
| 0.01 0.02 |

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|--|-------|-------|-------|-------|---------------|------|------|-------|-------|------|----------|
| Time Slice 1/1/2010-2/27/2010 Active Days: 50 | 12.60 | 38.33 | 31.55 | 0.01 | 0.05 | 2.12 | 2.17 | 0.02 | 1.95 | 1.97 | 4,624.04 |
| Building 08/01/2009-04/15/2010 | 5.34 | 38.31 | 31.21 | 0.01 | 0.05 | 2.12 | 2.17 | 0.02 | 1.95 | 1.97 | 4,602.30 |
| Building Off Road Diesel | 4.81 | 35.94 | 17.47 | 0.00 | 0.00 | 2.04 | 2.04 | 0.00 | 1.87 | 1.87 | 3,502.14 |
| Building Vendor Trips | 0.12 | 1.57 | 1.40 | 0.00 | 0.01 | 90.0 | 0.07 | 0.00 | 0.05 | 90.0 | 298.69 |
| Building Worker Trips | 0.41 | 0.80 | 12.34 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 801.48 |
| Coating 11/15/2009-04/30/2010 | 7.26 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| Architectural Coating | 7.25 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| Time Slice 3/1/2010-4/15/2010 Active Days: 40 | 16.08 | 60.48 | 49.18 | 0.02 | <u>80.0</u> 8 | 3.74 | 3.81 | 0.03 | 3.44 | 3.46 | 6,914.91 |
| Asphalt 03/01/2010-05/31/2010 | 3.48 | 22.15 | 17.63 | 0.00 | 0.02 | 1.62 | 25. | 0.01 | 1.49 | 1.50 | 2,290.87 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 21.47 | 10.63 | 0.00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| Paving On Road Diesel | 0.01 | 0.23 | 0.08 | 00.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 32.23 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Building 08/01/2009-04/15/2010 | 5.34 | 38.31 | 31.21 | 0.01 | 90.0 | 2.12 | 2.17 | 0.02 | 1.95 | 1.97 | 4,602.30 |
| Building Off Road Diesel | 4.81 | 35.94 | 17.47 | 00.00 | 00.0 | 2.04 | 2.04 | 00:00 | 1.87 | 1.87 | 3,502.14 |
| Building Vendor Trips | 0.12 | 1.57 | 1.40 | 00.00 | 0.01 | 90.0 | 0.07 | 0.00 | 0.05 | 90.0 | 298.69 |
| Building Worker Trips | 0.41 | 0.80 | 12.34 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 801.48 |
| Coating 11/15/2009-04/30/2010 | 7.26 | 0.02 | 0.33 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| Architectural Coating | 7.25 | 0.00 | 0.00 | 00:00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.33 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |

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| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 10.74 2 | 22.17 | 17.96 | 0.00 | 0.02 | 1.62 | 1.64 | 0.01 | 1.49 | 1.50 | 2,312.61 |
|---|---------|-------|-------|------|------|------|------|------|------|------|----------|
| 3.48 | 2 | 22.15 | 17.63 | 0.00 | 0.02 | 1.62 | 1.64 | 0.01 | 1.49 | 1.50 | 2,290.87 |
| 0.02 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.22 | | 21.47 | 10.63 | 0.00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| 0.01 | | 0.23 | 90.0 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 32.23 |
| 0.23 | | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| 7.26 | | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| 7.25 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.01 | | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| 3.48 | | 22.15 | 17.63 | 0.00 | 0.02 | 1.62 | 1.64 | 0.01 | 1.49 | 1.50 | 2,290.87 |
| 3.48 | 2 | 22.15 | 17.63 | 0.00 | 0.02 | 1.62 | 1.64 | 0.01 | 1.49 | 1.50 | 2,290.87 |
| 0.02 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| 3.22 | 2 | 21.47 | 10.63 | 0.00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| 0.01 | | 0.23 | 0.08 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 32.23 |
| 0.23 | | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| | | | | | | | | | | | |

Phase Assumptions

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

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

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

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

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

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

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 60

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 0.56

Off-Road Equipment:

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

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

PM2.5

PM2.5 Exhaust

PM2.5 Dust

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- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Interior 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

| PM10 |
|--------------|
| PM10 Exhaust |
| PM10 Dust |
| SO2 |
| 임 |
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| ROG |
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| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | 11.97 | 179.40 | 17.79 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 |
|---|-------|------------|-------|-------|--------|-------|--------|-------|------|-------|
| Demolition 06/01/2009- 06/15/2009 | 11.97 | 179.40 | 17.73 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 |
| rugitive Dust Demo Off Road Diesel | 0.00 | 0.00 93 | 0.00 | 00.00 | 163.80 | 00.00 | 163.80 | 34.07 | 0.0 | 34.07 |
| Demo On Road Diesel | 10.59 | 172.19 | 55.69 | 0.20 | 0.76 | 6.49 | 7.25 | 0.25 | 5.97 | 6.22 |
| Demo Worker Trips | 0.14 | 0.28 | 4.23 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 |
| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 00.0 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 |
| Mass Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 00.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 |

22,764.56

22,764,66

0.00 700.30 21,807.55

256.72 5,812.32 5,812.32

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| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 14.85 | 104.64 | 75.66 | 0.01 | 2.15 | 0.46 | 2.61 | 0.46 | 0.42 | 0.88 | 11,624.63 |
|---|-------|--------|-------|-------|------|------|-------|-------|------|------|-----------|
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 4.0 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 00.00 | 40. | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 00.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Fine Grading On Road Diesel | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 7/17/2009-7/31/2009 Active Days: 13 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 52.32 | 37.83 | 0.01 | 1.07 | 0.23 | 1.30 | 0.23 | 0.21 | 0.44 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0:00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 51.69 | 28.31 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.20 | 0.20 | 5,234.71 |
| Fine Grading On Road Diesel | 0.00 | 0:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00'0 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 8/1/2009-11/14/2009 Active Days: 91 | 5.68 | 35.16 | 32.48 | 0.01 | 0.05 | 0.25 | 0:30 | 0.02 | 0.23 | 0.25 | 4,601.70 |
| Building 08/01/2009-04/15/2010 | 5.68 | 35.16 | 32.48 | 0.01 | 0.05 | 0.25 | 0.30 | 0.02 | 0.23 | 0.25 | 4,601.70 |
| Building Off Road Diesel | 5.11 | 32.58 | 17.77 | 0.00 | 0.00 | 0.17 | 0.17 | 0.00 | 0.15 | 0.15 | 3,502.14 |
| Building Vendor Trips | 0.13 | 1.71 | 1.50 | 0.00 | 0.01 | 90.0 | 0.08 | 0.00 | 90:0 | 90:0 | 298.61 |
| Building Worker Trips | 0.44 | 0.87 | 13.20 | 0.01 | 0.0 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 800.95 |

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| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | 7.55 | 35.18 | 32.83 | 0.01 | 0.05 | 0.25 | 0.30 | 0.02 | 0.23 | 0.25 | 4,623.43 |
|---|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|----------|
| Building 08/01/2009-04/15/2010 | 5.68 | 35.16 | 32.48 | 0.01 | 0.05 | 0.25 | 0.30 | 0.02 | 0.23 | 0.25 | 4,601.70 |
| | 5.11 | 32.58 | 17.77 | 00.00 | 0.00 | 0.17 | 0.17 | 0.00 | 0.15 | 0.15 | 3,502.14 |
| | 0.13 | 1.71 | 1.50 | 0.00 | 0.01 | 90.0 | 0.08 | 0.00 | 90.0 | 90:0 | 298.61 |
| | 0.44 | 0.87 | 13.20 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 800.95 |
| Coating 11/15/2009-04/30/2010 | 1.87 | 0.02 | 96.0 | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.73 |
| | 1.86 | 0.00 | 0.00 | 00.00 | 00:00 | 0.00 | 0.00 | 0.00 | 00.00 | 00.00 | 0.00 |
| | 0.01 | 0.02 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.73 |
| Time Slice 1/1/2010-2/27/2010 Active Days: 50 | 10.02 | 32.94 | 31.55 | 0.01 | 0.05 | 0.23 | 0.29 | 0.02 | 0.21 | 0.23 | 4,624.04 |
| Building 08/01/2009-04/15/2010 | 5.34 | 32.92 | 31.21 | 0.01 | 0.05 | 0.23 | 0.28 | 0.02 | 0.21 | 0.23 | 4,602.30 |
| Building Off Road Diesel | 4.81 | 30.55 | 17.47 | 0.00 | 00.00 | 0.15 | 0.15 | 0.00 | 0.14 | 0.14 | 3,502.14 |
| | 0.12 | 1.57 | 1.40 | 0.00 | 0.01 | 90.0 | 0.07 | 0.00 | 90.0 | 90.0 | 298.69 |
| | 0.41 | 0.80 | 12.34 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 801.48 |
| Coating 11/15/2009-04/30/2010 | 4.68 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 21.74 |
| | 4.67 | 00:00 | 00:00 | 00.00 | 00:00 | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.01 | 0.02 | 0.33 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 21.74 |

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| Time Slice 3/1/2010-4/15/2010 | 13.49 | 51.87 | 49.18 | 20.02 | 0.08 | 0.37 | 0.45 | 0.03 | <u>0.34</u> | 0.37 | 6,914.91 |
|---|-------|-------|-------|-------|-------|------|------|-------|-------------|-------|----------|
| Asphalt 03/01/2010-05/31/2010 | 3.48 | 18.93 | 17.63 | 0.00 | 0.02 | 0.14 | 0.16 | 0.01 | 0.13 | 0.14 | 2,290.87 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.01 | 0.23 | 0.08 | 00:00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 32.23 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Building 08/01/2009-04/15/2010 | 5.34 | 32.92 | 31.21 | 0.01 | 0.05 | 0.23 | 0.28 | 0.02 | 0.21 | 0.23 | 4,602.30 |
| Building Off Road Diesel | 4.81 | 30.55 | 17.47 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.14 | 0.14 | 3,502.14 |
| Building Vendor Trips | 0.12 | 1.57 | 1.40 | 0.00 | 0.01 | 90.0 | 0.07 | 0.00 | 0.05 | 90.0 | 298.69 |
| Building Worker Trips | 0.41 | 0.80 | 12.34 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 801.48 |
| Coating 11/15/2009-04/30/2010 | 4.68 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| Architectural Coating | 4.67 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.74 |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 8.16 | 18.95 | 17.96 | 0.00 | 0.02 | 0.14 | 0.17 | 0.01 | 0.13 | 0.14 | 2,312.61 |
| Asphalt 03/01/2010-05/31/2010 | 3.48 | 18.93 | 17.63 | 0.00 | 0.02 | 0.14 | 0.16 | 0.01 | 0.13 | 0.14 | 2,290.87 |
| Paving Off-Gas | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.01 | 0.23 | 0.08 | 0.00 | 00.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 32.23 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Coating 11/15/2009-04/30/2010 | 4.68 | 0.02 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 21.74 |
| Architectural Coating | 4.67 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.33 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 21.74 |

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| 2,290.87 | | | 1,809.09 | | |
|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|
| 0.14 | 0.14 | 0.00 | 0.11 | 0.01 | 0.02 |
| 0.13 | 0.13 | 0.00 | 0.11 | 0.01 | 0.01 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 |
| 0.16 | 0.16 | 0.00 | 0.12 | 0.01 | 0.03 |
| 0.14 | 0.14 | 0.00 | 0.12 | 0.01 | 0.01 |
| 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 |
| 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17.63 | 17.63 | 0.00 | 10.63 | 0.08 | 6.92 |
| 18.93 | 18.93 | 0.00 | 18.25 | 0.23 | 0.45 |
| 3.48 | 3.48 | 0.02 | 3.22 | 0.01 | 0.23 |
| Time Slice 5/1/2010-5/31/2010 Active Days: 26 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips |

Construction Related Mitigation Measures

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

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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:

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

or 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%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | Ň | ଥ | 802 | PM10 | PM2.5 | <u>CO2</u> |
|-------------------------------|------|------|------|------|------|-------|------------|
| Natural Gas | 0.02 | 0.32 | 0.27 | 0.00 | 0.00 | 0.00 | 390.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.29 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.43 | 0.34 | 1.82 | 0.00 | 0.01 | 0.01 | 392.81 |

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Area Source Mitigated Detail Report:

PM2.5 0.00 0.01 0.01 PM10 0.00 0.01 0.01 0.00 0.00 0.0 **SO2** S 0.22 1.55 1.77 AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated Ň 0.26 0.02 0.28 0.00 0.43 ROG 0.02 0.12 0.29 Hearth - No Summer Emissions TOTALS (lbs/day, mitigated) Source Architectural Coatings Consumer Products Natural Gas Landscape

312.00

2.81

314.81

Area Source Mitigation Measures Selected

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

Area Source Changes to Defaults

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

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| 120,917.73 | 120 917 73 |
|------------|--|
| 41.41 | 41 41 |
| 212.76 | 212.76 |
| 1.18 | 1.18 |
| 2,116.27 | 2.116.27 |
| 219.37 | 219.37 |
| 158.91 | 158.91 |
| Casino | TOTALS (lbs/day, unmitigated) |
| | 158.91 219.37 2,116.27 1.18 212.76 41.41 |

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES S

| | C02 | 120,917.73 | 120,917.73 | |
|---|--------|------------|-----------------------------|--|
| | PM25 | 41.41 | 41.41 | |
| | PM10 | 212.76 | 212.76 | |
| | 205 | 1.18 | 1.18 | |
| | 8 | 2,116.27 | 2,116.27 | |
| er Day, Mitigated | XON | 219.37 | 219.37 | |
| Summer Pounds P | ROG | 158.91 | 158.91 | |
| OPERATIONAL EMISSION ESTIMATES SUMMER POUNDS Per Day, Mitigated | Source | Casino | TOTALS (lbs/day, mitigated) | |

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

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

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| | | | I | | | |
|---------------|---------|-----------|------------|-----------|-------------|------------|
| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
| Casino | | 92.95 | 1000 sq ft | 48.75 | 4,531.31 | 123,108.51 |
| | | | | | 4,531.31 | 123,108.51 |

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| | | Vehicle Fleet Mix | t Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Auto | | 32.7 | 2.4 | | 97.0 | 9.0 |
| Light Truck < 3750 lbs | | 24.5 | 4.1 | | 86.5 | 9.4 |
| Light Truck 3751-5750 lbs | | 19.6 | 1.5 | | 98.0 | 0.5 |
| Med Truck 5751-8500 lbs | | 9.1 | 1.1 | | 97.8 | 1.1 |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 64.0 | 36.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 41.7 | 58.3 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6:0 | 11.1 | | 22.2 | 66.7 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 6:0 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0:0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.4 | 67.2 | | 32.8 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 5.0 | | 85.0 | 10.0 |
| | | Travel Conditions | itions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Travel Conditions

Residential Commercial

Customer Non-Work Commute Home-Other Home-Shop Home-Work

% of Trips - Commercial (by land use)

92.5

2.5

5.0

Operational Changes to Defaults

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

Casino

Home-based work rural trip length changed from 16.8 miles to 28 miles

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

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

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

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

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

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | NON | 3 | <u>802</u> | PM10 Dust PM10 Exhaust | 0 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | C02 |
|-------------------------------------|-------|-------|------|------------|------------------------|-----------|-------|------------|------------------|-------|--------|
| 2012 TOTALS (tons/year unmitigated) | 0.68 | 1.35 | 29.7 | 0.00 | 0.46 | 0.08 | 0.55 | 0.10 | 0.08 | 0.17 | 197.69 |
| 2012 TOTALS (tons/year mitigated) | 0.38 | 1.16 | 1.62 | 0.00 | 0.04 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 197.69 |
| Percent Reduction | 43.86 | 13.89 | 0.00 | 0.00 | 92.35 | 88.82 | 91.81 | 91.93 | 89.01 | 90.65 | 0.00 |
| | | | | | | | | | | | |
| 2013 TOTALS (tons/year unmitigated) | 1.17 | 1.20 | 1.48 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.08 | 0.08 | 178.85 |
| 2013 TOTALS (tons/year mitigated) | 0.82 | 1.04 | 1.48 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 178.85 |
| Percent Reduction | 29.81 | 13.92 | 0.00 | 0.00 | 0.00 | 89.27 | 86.49 | 00:00 | 89.45 | 88.34 | 0.00 |

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Urbernis 2007 Version 9.2.4

Olbernis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

| | ROG | NOX | 8 | S02 | 2M10 Dust PM10 Exhaust | xhaust | PM10 P | PM2,5 Dust | PM2.5 Exhaust | PM2.5 | 602 |
|-----------------------------------|-------|-------|-------|------|------------------------|--------|--------|------------|------------------|-------|----------|
| 2012 TOTALS (lbs/day unmitigated) | 22.82 | 38.46 | 36.65 | 0.01 | 28.85 | 2.17 | 31.02 | 6.03 | 1.99 | 8.02 | 4,987.52 |
| 2012 TOTALS (lbs/day mitigated) | 8.98 | 32.95 | 36.65 | 0.01 | 2.08 | 0.21 | 2.30 | 4.0 | 0.19 | 0.64 | 4,987.52 |
| | | | | | | | | | | | |
| 2013 TOTALS (lbs/day unmitigated) | 24.96 | 29.43 | 34.46 | 0.01 | 90.0 | 2.14 | 2.20 | 0.02 | 1.97 | 1.99 | 4,192.63 |
| 2013 TOTALS (lbs/day mitigated) | 17.76 | 25.31 | 34.46 | 0.01 | 90.0 | 0.22 | 0.28 | 0.02 | 0.20 | 0.22 | 4,192.63 |
| | | | | | | | | | | | |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| <u>C02</u> |
|---------------|
| PM2.5 |
| PM2.5 Exhaust |
| PM2,5 Dust |
| PM10 |
| PM10 Exhaust |
| PM10 Dust |
| <u>802</u> |
| ଖ |
| XON |
| ROG |
| |
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| |

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| Time Silce 6/1/2012-6/29/2012 Active Days: 21 | 2.75 | 22.04 | 13.04 | 0.00 | 28.80 | 1.07 | 29.88 | 6.02 | 0.99 | 7.00 | 2,349.22 |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|
| Mass Grading 06/01/2012- 07/01/2012 | 2.75 | 22.04 | 13.04 | 0.00 | 28.80 | 1.07 | 29.88 | 6.02 | 66.0 | 7.00 | 2,349.22 |
| Mass Grading Dust | 00.0 | 0.00 | 00:00 | 0.00 | 28.80 | 0.00 | 28.80 | 6.01 | 0.00 | 6.01 | 00:00 |
| Mass Grading Off Road Diesel | 2.69 | 21.95 | 11.51 | 0.00 | 0.00 | 1.07 | 1.07 | 00.00 | 0.99 | 0.99 | 2,247.32 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 00:0 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.06 | 60.0 | 1.53 | 00.00 | 00:00 | 00.00 | 0.01 | 00.00 | 0.00 | 00.0 | 101.91 |
| Time Slice 7/2/2012-7/13/2012 Active Days: 10 | 2.75 | 22.04 | 13.04 | 0.00 | 28.80 | 1.07 | 29.88 | 6.02 | 66.0 | 7.00 | 2,349.22 |
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 22.04 | 13.04 | 0.00 | 28.80 | 1.07 | 29.88 | 6.02 | 0.99 | 2.00 | 2,349.22 |
| Fine Grading Dust | 0.00 | 00:00 | 00.00 | 00.00 | 28.80 | 00:00 | 28.80 | 6.01 | 0.00 | 6.01 | 0.00 |
| Fine Grading Off Road Diesel | 2.69 | 21.95 | 11.51 | 0.00 | 00.00 | 1.07 | 1.07 | 00:00 | 0.99 | 0.99 | 2,247.32 |
| Fine Grading On Road Diesel | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 90.0 | 60.0 | 1.53 | 00:00 | 0.00 | 00.00 | 0.01 | 0.00 | 0.00 | 0.00 | 101.91 |
| Time Slice 7/16/2012-7/16/2012 Active Days: 1 | 6.43 | 38.46 | 36.65 | 0.01 | 28.85 | 2.17 | 31.02 | 6.03 | 1.99 | 8.02 | 4.987.52 |
| Building 07/16/2012-05/15/2013 | 3.68 | 16.42 | 23.61 | 0.01 | 0.05 | 1.09 | 1.14 | 0.02 | 1.00 | 1.02 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 14.81 | 10.52 | 0.00 | 0.00 | 1,04 | 1.04 | 00'0 | 0.95 | 0.95 | 1,621.20 |
| Building Vendor Trips | 0.08 | 0.86 | 0.88 | 00.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 22.04 | 13.04 | 0.00 | 28.80 | 1.07 | 29.88 | 6.02 | 0.99 | 7.00 | 2,349.22 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 28.80 | 0.00 | 28.80 | 6.01 | 00.00 | 6.01 | 0.00 |
| Fine Grading Off Road Diesel | 2.69 | 21.95 | 11.51 | 0.00 | 0.00 | 1.07 | 1.07 | 0.00 | 0.99 | 0.99 | 2,247.32 |
| Fine Grading On Road Diesel | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 90.0 | 60'0 | 1.53 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 101.91 |

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| 10/14/2008 11:51:43 AM |
|------------------------|
| |

| Time Slice 7/17/2012-10/31/2012 Active Days: 77 | 3.68 | 16.42 | 23.61 | 0.01 | 0.05 | 1.09 | 1.14 | 0.02 | 1.00 | 1.02 | 2,638.29 |
|--|-------|-------|-------|------|------|-------|------|------|------|-------|----------|
| Building 07/16/2012-05/15/2013 | 3.68 | 16.42 | 23.61 | 0.01 | 0.05 | 1.09 | 1.14 | 0.02 | 1.00 | 1.02 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 14.81 | 10.52 | 0.00 | 0.00 | 1.04 | 1.04 | 0.00 | 0.95 | 0.95 | 1,621.20 |
| Building Vendor Trips | 0.08 | 0.86 | 0.88 | 0.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| Time Slice 11/1/2012-12/31/2012 Active Days: 43 | 22.82 | 16.44 | 23.95 | 0.01 | 0.05 | 1.09 | 1.14 | 0.02 | 1.00 | 1.02 | 2,661.04 |
| Building 07/16/2012-05/15/2013 | 3.68 | 16.42 | 23.61 | 0.01 | 0.05 | 1.09 | 1.14 | 0.02 | 1.00 | 1.02 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 14.81 | 10.52 | 0.00 | 0.00 | 40. | 2. | 0.00 | 0.95 | 0.95 | 1,621.20 |
| Building Vendor Trips | 0.08 | 0.86 | 0.88 | 0.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| Coating 11/01/2012-05/15/2013 | 19.14 | 0.02 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 |
| Architectural Coating | 19.13 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 |
| Time Slice 1/1/2013-2/28/2013 Active Days: 43 | 22.51 | 15.38 | 22.62 | 0.01 | 0.05 | 0.98 | 1.03 | 0.02 | 0.90 | 0.92 | 2,661.58 |
| Building 07/16/2012-05/15/2013 | 3.38 | 15.36 | 22.31 | 0.01 | 0.05 | 0.98 | 1.03 | 0.02 | 06.0 | 0.92 | 2,638.82 |
| Building Off Road Diesel | 2.88 | 13.91 | 10.20 | 0.00 | 0.00 | 0.93 | 0.93 | 0.00 | 0.86 | 98.0 | 1,621.20 |
| Building Vendor Trips | 0.07 | 0.77 | 0.81 | 0.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.89 |
| Building Worker Trips | 0.43 | 69.0 | 11.30 | 0.01 | 0.04 | 0.02 | 90:0 | 0.01 | 0.02 | 0.03 | 815.73 |
| Coating 11/01/2012-05/15/2013 | 19.14 | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Architectural Coating | 19.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
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| Time Slice 3/1/2013-5/15/2013 Active Days: 54 | 24.96 | <u>29.43</u> | 34.46 | 0.01 | 90'0 | 2.14 | 2.20 | 0.02 | 1.97 | 1.99 | 4.192,63 |
|---|-------|--------------|-------|-------|-------|------|-------|-------|------|------|----------|
| Asphalt 03/01/2013-05/30/2013 | 2.44 | 14.05 | 11.84 | 0.00 | 0.01 | 1,16 | 1.17 | 00.00 | 1.07 | 1.07 | 1,531.06 |
| Paving Off-Gas | 0.12 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 2.19 | 13.60 | 8.91 | 0.00 | 0.00 | 1.15 | 1.15 | 0.00 | 1.05 | 1.05 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0,11 | 0.17 | 2.82 | 00.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 203.93 |
| Building 07/16/2012-05/15/2013 | 3.38 | 15.36 | 22.31 | 0.01 | 0.05 | 0.98 | 1.03 | 0.02 | 06.0 | 0.92 | 2,638.82 |
| Building Off Road Diesel | 2.88 | 13.91 | 10.20 | 00.00 | 0.00 | 0.93 | 0.93 | 0.00 | 0.86 | 98.0 | 1,621.20 |
| Building Vendor Trips | 0.07 | 0.77 | 0.81 | 00.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.89 |
| Building Worker Trips | 0.43 | 0.69 | 11.30 | 0.01 | 0.0 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.73 |
| Coating 11/01/2012-05/15/2013 | 19.14 | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Architectural Coating | 19.13 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.32 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| Time Slice 5/16/2013-5/30/2013 Active Days: 11 | 2.44 | 14.05 | 11.84 | 0.00 | 0.01 | 1.16 | 1.17 | 0.00 | 1.07 | 1.07 | 1,531.06 |
| Asphaft 03/01/2013-05/30/2013 | 2.44 | 14.05 | 11.84 | 0.00 | 0.01 | 1.16 | 1.17 | 0.00 | 1.07 | 1.07 | 1,531.06 |
| Paving Off-Gas | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 2.19 | 13.60 | 8.91 | 00.00 | 00.00 | 1.15 | 1.15 | 0.00 | 1.05 | 1.05 | 1,272.04 |
| Paving On Road Diesel | 0.02 | 0.28 | 0.10 | 0.00 | 00.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 55.09 |
| Paving Worker Trips | 0.11 | 0.17 | 2.82 | 00.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 203.93 |

Phase Assumptions

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

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

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Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1.44

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 3

Off-Road Equipment:

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

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

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

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

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

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Phase: Building Construction 7/16/2012 - 5/15/2013 - Default Building Construction Description

Off-Road Equipment:

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

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

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

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

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

Phase: Architectural Coating 11/1/2012 - 5/15/2013 - Default Architectural Coating Description Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 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 | Ň | 3 | 802 | PM10 Dust | PM10 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | |
|--|------|-------|-------|------|-----------|--------------|------|------------|---------------|-------|----------------|
| Time Slice 6/1/2012-6/29/2012 Active Days: 21 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Mass Grading 06/01/2012- 07/01/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 0.00 | 2.03 | 0.42 | 0.00 | 0.42 | 0.00 |
| Mass Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.07 | 0.07 | 2,247.32 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 90:0 | 60.0 | 1.53 | 0.00 | 0.00 | 00:00 | 0.01 | 0.00 | 0.00 | 0.00 | 101.91 |

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| Time Slice 7/2/2012-7/13/2012 Active Days: 10 | 2.75 | 18,75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
|--|------|-------|-------|-------|-------|-------|------|------|-------|------|----------|
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 0.08 | 2.12 | 0.43 | 0.08 | 0.50 | 2,349.22 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 0.00 | 2.03 | 0.42 | 0.00 | 0.42 | 0.00 |
| Fine Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 00:00 | 90.0 | 0.08 | 0.00 | 0.07 | 0.07 | 2,247.32 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 90.0 | 60'0 | 1.53 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 101.91 |
| Time Slice 7/16/2012-7/16/2012 Active Days: 1 | 6.43 | 32.95 | 36.65 | 0.01 | 2.08 | 0.21 | 2.30 | 0.44 | 0.19 | 0.64 | 4.987.52 |
| Building 07/16/2012-05/15/2013 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building Off Road Diesel | 3.14 | 12.59 | 10.52 | 0.00 | 0.00 | 0.08 | 90.0 | 0.00 | 0.07 | 0.07 | 1,621.20 |
| Building Vendor Trips | 90.0 | 0.86 | 0.88 | 0.00 | 0.01 | 0.03 | 9.0 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| Fine Grading 07/01/2012- 07/16/2012 | 2.75 | 18.75 | 13.04 | 0.00 | 2.04 | 80.0 | 2.12 | 0.43 | 0.08 | 0:00 | 2,349.22 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 0.00 | 2.03 | 0.42 | 0.00 | 0.42 | 0.00 |
| Fine Grading Off Road Diesel | 2.69 | 18.65 | 11.51 | 0.00 | 0.00 | 0.08 | 90.0 | 0.00 | 0.07 | 0.07 | 2,247.32 |
| Fine Grading On Road Diesel | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 90.0 | 60'0 | 1.53 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 00.00 | 0.00 | 101.91 |
| Time Slice 7/17/2012-10/31/2012 Active Days: 77 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building 07/16/2012-05/15/2013 | 3.68 | 14.20 | 23.61 | 0.01 | 0.05 | 0.13 | 0.18 | 0.02 | 0.12 | 0.14 | 2,638.29 |
| Building Off Road Diesel | 3,14 | 12.59 | 10.52 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.07 | 0.07 | 1,621.20 |
| Building Vendor Trips | 0.08 | 98'0 | 0.88 | 00:00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.85 |
| Building Worker Trips | 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| | | | | | | | | | | | |

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| 8.98 3.68 3.14 | 14.20 | 23.95 23.61 10.52 | 0.00 | 0.05 | 0.13 0.13 | 0.18 80.00 | 0.02 | 0.12 | 0.14 | 2,661.04 |
|----------------------|-------|-------------------------|------|------|--------------|---------------|-------|-------|------|----------|
| 3,14 | 12.59 | 10.52 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.07 | 0.07 | 1,621.20 |
| 0.47 | 0.75 | 12.22 | 0.01 | 0.04 | 0.02 | 90.0 | 0.01 | 0.02 | 0.03 | 815.25 |
| 5.30 | 0.02 | 0.3 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 |
| 5.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.02 | 0. 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.75 |
| | 13.29 | 22.62 | 0.01 | 0.05 | 0.12 | 0.17 | 0.02 | 0.11 | 0.13 | 2,661.58 |
| | 13.27 | 22.31 | 0.01 | 0.05 | 0.12 | 0.17 | 0.02 | 0.11 | 0.12 | 2,638.82 |
| | 11.82 | 10.20 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 90.0 | 90.0 | 1,621.20 |
| 0.07 | 0.77 | 0.81 | 0.00 | 0.01 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 201.89 |
| 0.43 | 0.69 | 11.30 | 0.01 | 0.04 | 0.02 | 90:0 | 0.01 | 0.02 | 0.03 | 815.73 |
| 11.94 | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |
| 11.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 00.00 | 0.00 | 0.00 |
| | 0.02 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.76 |

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Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

or 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 Fifter (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%

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

or 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:

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PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

| | ROG | NON | 임 | <u>807</u> | PM10 | PM2.5 | C02 |
|--|-------|-------|--------|------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 0.24 | 0.42 | 0.64 | 00.00 | 00.00 | 0.00 | 509.69 |
| TOTALS (tons/year, mitigated) | 0.23 | 0.34 | 0.57 | 00.00 | 00.00 | 0.00 | 407.85 |
| Percent Reduction | 4.17 | 19.05 | 10.94 | NaN | NaN | NaN | 19.98 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | XON | 8 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (tons/year, unmitigated) | 28.18 | 40.68 | 328.83 | 0.23 | 43.09 | 8.29 | 23,713.61 |
| TOTALS (tons/year, mitigated) | 28.18 | 40.68 | 328.83 | 0.23 | 43.09 | 8.29 | 23,713.61 |
| Percent Reduction | 0.00 | 0.00 | 00.00 | 0.00 | 00.00 | 00.00 | 00.0 |

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | 잉 | <u>S02</u> | PM10 | PM2.5 | <u>C02</u> |
|---------------------------------|-------|-------|--------|------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 28.42 | 41.10 | 329.47 | 0.23 | 43.09 | 8.29 | 24,223.30 |
| TOTALS (tons/year, mitigated) | 28.41 | 41.02 | 329.40 | 0.23 | 43.09 | 8.29 | 24,121.46 |
| ercent Reduction | 0.04 | 0.19 | 0.02 | 00.00 | 0.00 | 0.00 | 0.42 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | ROG | Ň | 임 | <u>802</u> | PM10 | PM2.5 | 000 |
|---|---------|--------|----------|------------|--------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 1.44 | 2.36 | 5.04 | 00.00 | 0.01 | 0.01 | 2,795.62 |
| TOTALS (lbs/day, mitigated) | 1.41 | 1.90 | 4.65 | 00.00 | 0.01 | 0.01 | 2,237.62 |
| Percent Reduction | 2.08 | 19.49 | 7.74 | NaN | 00.00 | 0.00 | 19.96 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | Ň | 엉 | 802 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 137.99 | 190.41 | 1,772.40 | 1.31 | 236.11 | 45.46 | 135,560.04 |
| TOTALS (lbs/day, mitigated) | 137.99 | 190.41 | 1,772.40 | 1.31 | 236.11 | 45.46 | 135,560.04 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | TIMATES | | | | | | |
| | ROG | ×ON | 임 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 139.43 | 192.77 | 1,777,44 | 1.31 | 236.12 | 45.47 | 138,355.66 |
| TOTALS (lbs/day, mitigated) | 139.40 | 192.31 | 1,777.05 | 1.31 | 236.12 | 45.47 | 137,797.66 |
| Percent Reduction | 0.02 | 0.24 | 0.02 | 0.00 | 00:00 | 0.00 | 0.40 |

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| AREA SOURCE EMISSION ESTIMATES SUM | Summer Pounds Per Day, Unmitigated | ay, unmitigated | | | | | |
|---|------------------------------------|-----------------|------|-------------|-------|-------|------------|
| Source | ROG | XON | 얾 | <u>802</u> | PM10 | PM2,5 | <u>co2</u> |
| Natural Gas | 0.17 | 2.32 | 1.95 | 0.00 | 0.00 | 00:00 | 2,790.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 1.02 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 1.44 | 2.36 | 5.04 | 0.00 | 0.01 | 0.01 | 2,795.62 |
| Area Course Misserted Detail Denote | | | | | | | |
| Alea Coulce Mingared Detail Nepolt. | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | ımer Pounds Per D | ay, Mitigated | | | | | |
| Source | ROG | NOX | 8 | <u>\$05</u> | PM10 | PM2.5 | <u>CO2</u> |
| Natural Gas | 0.14 | 1.86 | 1.56 | 0.00 | 00.00 | 00:00 | 2,232.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 9.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 1.02 | | | | | | |

2,237.62

0.01

0.01

0.00

4.65

8.

1.41

TOTALS (lbs/day, mitigated)

Area Source Changes to Defaults

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

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

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OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| C02 | 13,774.21 | 121,785.83 | 135,560.04 | | | C02 | 13,774.21 | 121,785.83 | 135,560.04 |
|--------|-----------|------------|-------------------------------|--------------------------------------|----------------------------------|--------|-----------|------------|-----------------------------|
| PM25 | 4.62 | 40.84 | 45.46 | | | PM25 | 4.62 | 40.84 | 45.46 |
| PM10 | 23.99 | 212.12 | 236.11 | | | PM10 | 23.99 | 212.12 | 236.11 |
| 802 | 0.13 | 1.18 | 1.31 | | | 802 | 0.13 | 1.18 | 1.31 |
| 8 | 180.09 | 1,592.31 | 1,772.40 | | | 8 | 180.09 | 1,592.31 | 1,772.40 |
| XON | 19.35 | 171.06 | 190.41 | | er Day, Mitigated | XON | 19.35 | 171.06 | 190.41 |
| ROG | 16.87 | 121.12 | 137.99 | | Summer Pounds Per Day, Mitigated | ROG | 16.87 | 121.12 | 137.99 |
| Source | Hotel | Casino | TOTALS (lbs/day, unmitigated) | Operational Mitigated Detail Report: | OPERATIONAL EMISSION ESTIMATESS | Source | Hotel | Casino | TOTALS (lbs/day, mitigated) |

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year; 2013 Temperature (F): 85 Season; Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Operational Unmitigated Detail Report:

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| | | Vehicle Fleet Mix | st Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Auto | | 32.5 | 6.0 | | 8.86 | 0.3 |
| Light Truck < 3750 lbs | | 24.5 | 2.4 | | 89.4 | 8.2 |
| Light Truck 3751-5750 lbs | | 19.7 | 1.0 | | 98.5 | 9.0 |
| Med Truck 5751-8500 lbs | | 9.2 | 1:1 | | 8.76 | 1.1 |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 0.89 | 32.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 41.7 | 58.3 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 0.0 | | 22.2 | 77.8 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 6.0 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.4 | 54.7 | | 45.3 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 0.0 | | 85.0 | 15,0 |
| | | Travel Conditions | ittions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Соттите | Non-Work | Сиstотег |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Travel Conditions

| | Customer | | 92.5 | 92.5 |
|-------------|------------|---------------------------------------|-------|--------|
| Соттега | Non-Work | | 2.5 | 2.5 |
| 0 | Commute | | 5.0 | 5.0 |
| | Home-Other | | | |
| Residential | Home-Shop | | | |
| | Home-Work | | | |
| | | % of Trips - Commercial (by land use) | Hotel | Casino |

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | | 802 | PM10 | PM2.5 | CO2 |
|--|-------|-------|--------|------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 0.24 | 0.42 | 0.64 | 0.00 | 00:00 | 00:00 | 509.69 |
| TOTALS (tons/year, mitigated) | 0.23 | 0.34 | 0.57 | 00.00 | 0.00 | 0.00 | 407.85 |
| Percent Reduction | 4.17 | 19.05 | 10.94 | NaN | NaN | NaN | 19.98 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NOX | 얾 | <u>S02</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (tons/year, unmitigated) | 11.31 | 9.23 | 104.77 | 0.23 | 42.75 | 8.00 | 23,678.67 |
| TOTALS (tons/year, mitigated) | 11.31 | 9.23 | 104.77 | 0.23 | 42.75 | 8.00 | 23,678.67 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| <u>CO2</u> | 24,188.36 | 24,086.52 | 0.45 |
|------------|---------------------------------|-------------------------------|-------------------|
| PM2.5 | 8.00 | 8.00 | 0.00 |
| PM10 | 42.75 | 42.75 | 0.00 |
| 802 | 0.23 | 0.23 | 0.00 |
| 임 | 105.41 | 105.34 | 0.07 |
| Ň | 9.65 | 9.57 | 0.83 |
| <u>R0G</u> | 11.55 | 11.54 | 0.09 |
| | TOTALS (tons/year, unmitigated) | TOTALS (tons/year, mitigated) | Percent Reduction |

-

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Urbernis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | ROG | ŇON | 읭 | <u>802</u> | PM10 | PM2.5 | CO2 |
|---|----------|-------|--------|------------|-------------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 1.44 | 2.36 | 5.04 | 0.00 | 0.01 | 0.01 | 2,795.62 |
| TOTALS (lbs/day, mitigated) | 1.41 | 1.90 | 4.65 | 0.00 | 0.01 | 0.01 | 2,237.62 |
| Percent Reduction | 2.08 | 19.49 | 7.74 | NaN | 0.00 | 00.00 | 19.96 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NON | 8 | 802 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 55.78 | 42.96 | 564.64 | 1.30 | 234.29 | 43.84 | 135,858.97 |
| TOTALS (lbs/day, mitigated) | 55.78 | 42.96 | 564.64 | 1.30 | 234.29 | 43.84 | 135,858.97 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | STIMATES | | | | | | |
| | ROG 8 | XON | 잉 | <u>802</u> | <u>PM10</u> | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 57.22 | 45.32 | 569.68 | 1.30 | 234.30 | 43.85 | 138,654.59 |
| TOTALS (lbs/day, mitigated) | 57.19 | 44.86 | 569.29 | 1.30 | 234.30 | 43.85 | 138,096.59 |
| Percent Reduction | 0'02 | 1.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.40 |

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Area Source Unmitigated Detail Report:

| AREA SOURCE EMISSION ESTIMATES SUMM | Summer Pounds Per Day, Unmitigated | y, Unmitigated | | | | | |
|---|------------------------------------|----------------|------|-------------|------|-------|------------|
| Source | ROG | NOX | 엉 | <u>\$02</u> | PM10 | PM2.5 | <u>CO2</u> |
| Natural Gas | 0.17 | 2.32 | 1.95 | 00.00 | 0.00 | 0.00 | 2,790.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 00.0 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 1.02 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 1.44 | 2.36 | 5.04 | 0.00 | 0.01 | 0.01 | 2,795.62 |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | ner Pounds Per Da | y, Mitigated | | | | | |
| Source | ROG | XON | 8 | 202 | PM10 | PM2.5 | CO2 |
| Natural Gas | 0.14 | 1.86 | 1.56 | 0.00 | 0.00 | 0.00 | 2,232.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.25 | 0.04 | 3.09 | 0.00 | 0.01 | 0.01 | 5.62 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 1.02 | | | | | | |
| TOTALS (lbs/day, mitigated) | 1.41 | 1.90 | 4.65 | 0.00 | 0.01 | 0.01 | 2,237.62 |

Area Source Changes to Defaults

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| 005 | 13,804.58 | 22,054.39 | 135,858.97 | | | 005 | 13,804.58 | 122,054.39 |
|--------|-----------|-----------|-------------------------------|--------------------------------------|---|--------|-----------|------------|
| | 13, | 122, | 135, | | | | 13, | 122 |
| PM25 | 4.45 | 39.39 | 43.84 | | | PM25 | 4.45 | 39.39 |
| PM10 | 23.81 | 210.48 | 234.29 | | | PM10 | 23.81 | 210.48 |
| 802 | 0.13 | 1.17 | 1.30 | | | 203 | 0.13 | 1.17 |
| 8 | 57.37 | 507.27 | 564.64 | | | 8 | 57.37 | 507.27 |
| XON | 4.37 | 38.59 | 42.96 | | er Day, Mitigated | XON | 4.37 | 38.59 |
| ROG | 29.9 | 49.11 | 55.78 | | Summer Pounds P | ROG | 6.67 | 49.11 |
| Source | Hotel | Casino | TOTALS (lbs/day, unmitigated) | Operational Mitigated Detail Report: | OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | Source | Hotel | Casino |

Operational Settings:

135,858.97

43.84

234.29

1.30

564.64

42.96

55.78

TOTALS (lbs/day, mitigated)

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 85 Season; Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Total VMT | 13,923.80 | 123,108.51 | 137,032.31 |
|---------------|-----------|------------|------------|
| Total Trips | 512.50 | 4,531.31 | 5,043.81 |
| No. Units | 250.00 | 48.75 | |
| Unit Type | rooms | 1000 sq ft | |
| Trip Rate | 2.05 | 92.95 | |
| Acreage | | | |
| Land Use Type | Hotel | Casino | |

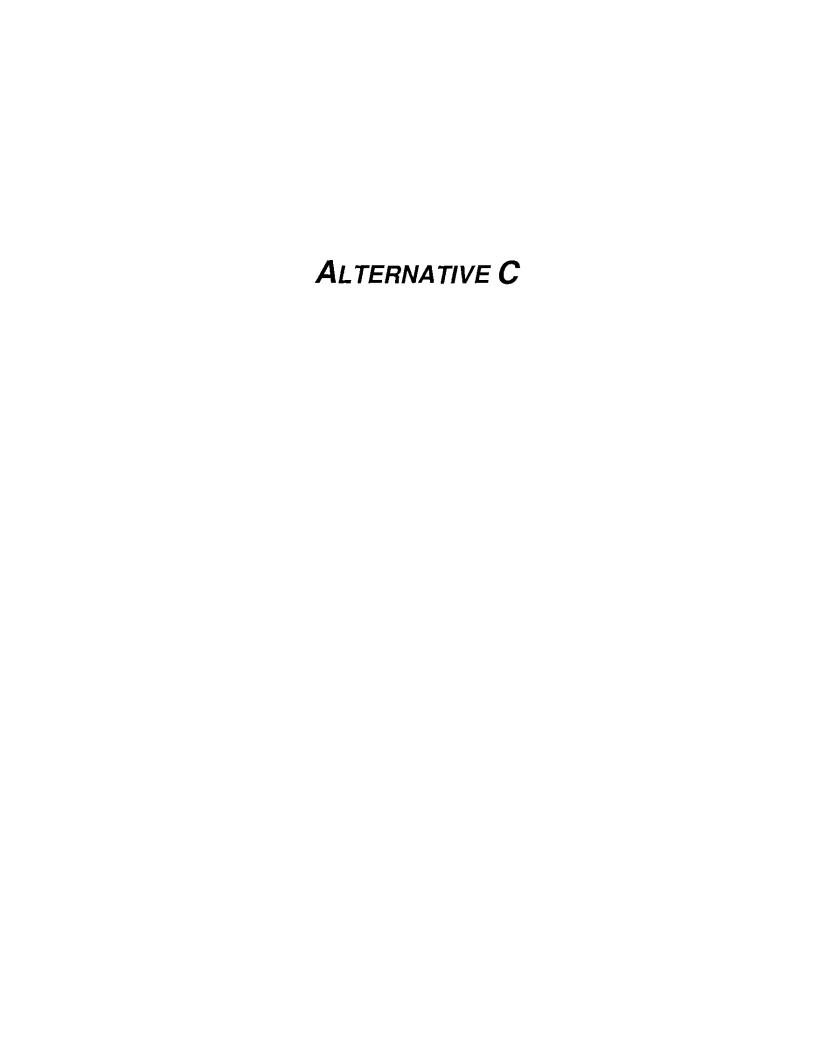
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| | | Vehicle Fleet Mix | t Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|
| Vehide Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Auto | | 32.8 | 0.0 | | 100.0 | 0.0 |
| Light Truck < 3750 lbs | | 24.4 | 0.0 | | 99.2 | 0.8 |
| Light Truck 3751-5750 lbs | | 19.8 | 0.0 | | 100.0 | 0.0 |
| Med Truck 5751-8500 lbs | | 9.2 | 0.0 | | 100.0 | 0.0 |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 80.0 | 20.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 58.3 | 41.7 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 0.0 | | 22.2 | 77.8 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 0.7 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.3 | 33.3 | | 66.7 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 0.0 | | 0.06 | 10.0 |
| | | Travel Conditions | ditions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trìp speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Travel Conditions

| | Customer | | 92.5 | 92.5 |
|-------------|------------|---------------------------------------|-------|--------|
| | | | 2 | 2 |
| Commercial | Non-Work | | 2.5 | 2.5 |
| ŏ | Commute | | 5.0 | 5.0 |
| | Home-Other | | | |
| Residential | Home-Shop | | | |
| | Home-Work | | | |
| | | % of Trips - Commercial (by land use) | Hotel | Casino |



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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | XON | ଖ | 802 | PM10 Dust PM10 Exhaust | 110 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | 203 |
|-------------------------------------|-------|-------|-------|------|------------------------|-------------|-------|------------|------------------|-------|--------|
| 2009 TOTALS (tons/year unmitigated) | 69.0 | 90.6 | 3.01 | 0.00 | 1.38 | 0.25 | 1.63 | 0.29 | 0.23 | 0.52 | 544.82 |
| 2009 TOTALS (tons/year mitigated) | 0.61 | 4.49 | 3.01 | 0.00 | 1.09 | 90.0 | 1.16 | 0.23 | 90.0 | 0.29 | 544.82 |
| Percent Reduction | 10.47 | 11.30 | 0.00 | 0.00 | 20.49 | 75.63 | 29.08 | 20.48 | 75.65 | 45.21 | 0.00 |
| | | | | | | | | | | | |
| 2010 TOTALS (tons/year unmitigated) | 0.62 | 2.56 | 1.91 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.15 | 0.15 | 281.40 |
| 2010 TOTALS (tons/year mitigated) | 0.53 | 2.19 | 1.91 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 281.40 |
| Percent Reduction | 14.34 | 14.44 | 00:00 | 0.00 | 0.00 | 90.68 | 89.26 | 0.00 | 90.71 | 90.15 | 0.00 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | NOX | 잉 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> | | | |
| TOTALS (tons/year, unmitigated) | | 0.04 | 0.04 | 0.17 | 0.00 | 0.00 | 0.00 | 47.70 | | | |
| TOTALS (tons/year, mitigated) | | 0.04 | 0.03 | 0.17 | 0.00 | 0.00 | 0.00 | 38.21 | | | |
| Percent Reduction | | 0.00 | 25.00 | 00.0 | NaN | NaN | NaN | 19.90 | | | |

age: 2

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | 0 | 802 | PM10 | PM2.5 | <u>CO2</u> |
|---|--------------|-------|--------|------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 21.86 | 31.30 | 264.11 | 0.14 | 25.89 | 5.04 | 14,116.52 |
| TOTALS (tons/year, mitigated) | 21.86 | 31.30 | 264.11 | 0.14 | 25.89 | 5.04 | 14,116.52 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | SION ESTIMAT | ES | | | | | |
| | ROG | NOX | 0) | 202 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (tons/year, unmitigated) | 21.90 | 31.34 | 264.28 | 0.14 | 25.89 | 5.04 | 14,164.22 |
| TOTALS (tons/year, mitigated) | 21.90 | 31.33 | 264.28 | 0.14 | 25.89 | 5.04 | 14,154.73 |
| Percent Reduction | 0.00 | 0.03 | 00.00 | 0.00 | 0.00 | 0.00 | 0.07 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

| | ROG | XON | 8 | <u>\$05</u> | PM10 Dust PM10 Exhaust | 10 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | <u>CO2</u> |
|-----------------------------------|-------|--------|-------|-------------|------------------------|------------|--------|------------|------------------|-------|------------|
| 2009 TOTALS (lbs/day unmitigated) | 14.85 | 180.62 | 75.66 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| 2009 TOTALS (lbs/day mitigated) | 14.85 | 179.40 | 75.66 | 0.21 | 164.58 | 6.55 | 171.12 | 34.33 | 6.02 | 40.35 | 22,764.56 |
| | | | | | | | | | | | |
| 2010 TOTALS (lbs/day unmitigated) | 13.47 | 59.61 | 44.46 | 0.01 | 90.0 | 3.71 | 3.77 | 0.02 | 3.41 | 3.43 | 6,530.01 |
| 2010 TOTALS (lbs/day mitigated) | 11.75 | 50.99 | 44.46 | 0.01 | 90.0 | 0.34 | 0.40 | 0.02 | 0.32 | 0.34 | 6,530.01 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | Ň | 8 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> | | | |
| TOTALS (lbs/day, unmitigated) | | 0.33 | 0.24 | 1.73 | 0.00 | 0.01 | 0.01 | 262.81 | | | |
| TOTALS (lbs/day, mitigated) | | 0.32 | 0.19 | 1.70 | 0.00 | 0.01 | 0.01 | 210.81 | | | |
| Percent Reduction | | 3.03 | 20.83 | 1.73 | NaN | 0.00 | 0.00 | 19.79 | | | |

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OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| <u>CO2</u> | 80,611.82 | 80,611.82 | 0.00 | | <u>CO2</u> | 80,874.63 | 80,822.63 | 90.0 |
|------------|-------------------------------|-----------------------------|-------------------|---|------------|-------------------------------|-----------------------------|-------------------|
| PM2.5 | 27.60 | 27.60 | 0.00 | | PM2.5 | 27.61 | 27.61 | 0.00 |
| PM10 | 141.84 | 141.84 | 0.00 | | PM10 | 141.85 | 141.85 | 0.00 |
| 802 | 0.79 | 0.79 | 0.00 | | 802 | 0.79 | 0.79 | 0.00 |
| 3 | 1,410.85 | 1,410.85 | 0.00 | | | 1,412.58 | 1,412.55 | 0.00 |
| Ň | 146.25 | 146.25 | 00.00 | | Ň | 146.49 | 146.44 | 0.03 |
| ROG | 105.94 | 105.94 | 0.00 | TIONAL EMISSION ESTIMATES | ROG | 106.27 | 106.26 | 0.01 |
| | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction | SUM OF AREA SOURCE AND OPERATIONAL EMISSION EST | | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| PM2.5 CO2 | | 40.89 22,764.56 | | | 6.22 21,807.55 | |
|---------------|--|--------------------------------------|---------------|----------------------|---------------------|-------------------|
| PMZ.5 EXNAUST | <u>6.57</u> | 6.57 | 0.00 | 0.59 | 5.97 | 0.01 |
| FMZ.5 DUS | 34.33 | 34.33 | 34.07 | 0.00 | 0.25 | 0.00 |
| PM10 | 171.71 | 171.71 | 163.80 | 0.64 | 7.25 | 0.02 |
| PM10 Exhaust | 7.14 | 7.14 | 00:00 | 0.64 | 6.49 | 0.01 |
| PM10 Dust | 164.58 | 164.58 | 163.80 | 0.00 | 0.76 | 0.01 |
| 202 | 0.21 | 0.21 | 0.00 | 0.00 | 0.20 | 0.00 |
| 3 | 64.71 | 64.71 | 0.00 | 4.78 | 55.69 | 4.23 |
| <u> </u> | 180.62 | 180.62 | 0.00 | 8.15 | 172.19 | 0.28 |
| NOG | 11.97 | 11.97 | 0.00 | 1.23 | 10.59 | 0.14 |
| | Time Slice 6/1/2009-6/15/2009 Active Days: 13 | Demolition 06/01/2009- 06/15/2009 | Fugitive Dust | Demo Off Road Diesel | Demo On Road Diesel | Demo Worker Trips |

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| Time Slice 6/16/2009-7/15/2009 Active Davs: 26 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
|---|-------|--------|-------|------|-------|------|-------|-------|------|-------|-----------|
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 00:0 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 9.0 | 0.01 | 0.01 | 0.05 | 577.61 |
| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 14.85 | 122.88 | 75.66 | 0.01 | 29.66 | 5.79 | 35.45 | 6.20 | 5.33 | 11.53 | 11,624.63 |
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Fine Grading Dust | 00.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Fine Grading On Road Diesel | 00.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 00:00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 9.0 | 0.01 | 0.01 | 0.02 | 577.61 |
| Mass Grading 06/16/2009- 07/16/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Mass Grading Dust | 0.0 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 0.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |

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| Time Slice 7/17/2009-7/31/2009 Active Days: 13 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
|---|-------|-------|-------|-------|-------|------|-------|------|--------------|-------|----------|
| Fine Grading 07/16/2009- 07/31/2009 | 7.43 | 61.44 | 37.83 | 0.01 | 14.83 | 2.90 | 17.73 | 3.10 | 2.66 | 5.77 | 5,812.32 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 7.11 | 60.82 | 28.31 | 00.00 | 0.00 | 2.88 | 2.88 | 0.00 | 2.65 | 2.65 | 5,234.71 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 |
| Fine Grading Worker Trips | 0.32 | 0.62 | 9.52 | 0.01 | 0.03 | 0.02 | 0.04 | 0.01 | 0.01 | 0.02 | 577.61 |
| Time Slice 8/1/2009-11/14/2009 Active Days: 91 | 5.49 | 40.05 | 27.58 | 0.01 | 0.03 | 2.26 | 2.29 | 0.01 | 2.08 | 2.09 | 4,235.18 |
| Building 08/01/2009-04/15/2010 | 5.49 | 40.05 | 27.58 | 0.01 | 0.03 | 2.26 | 2.29 | 0.01 | 2.08 | 2.09 | 4,235.18 |
| Building Off Road Diesel | 5.11 | 38.33 | 17.77 | 0.00 | 0.00 | 2.20 | 2.20 | 0.00 | 2.03 | 2.03 | 3,502.14 |
| Building Vendor Trips | 60.0 | 1.14 | 1.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.00 | 5 0.0 | 0.04 | 199.08 |
| Building Worker Trips | 0.29 | 0.58 | 8.80 | 0.01 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 533.97 |
| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | 10.34 | 40.07 | 27.81 | 0.01 | 0.04 | 2.26 | 2.30 | 0.01 | 2.08 | 2.09 | 4,249.67 |
| Building 08/01/2009-04/15/2010 | 5.49 | 40.05 | 27.58 | 0.01 | 0.03 | 2.26 | 2.29 | 0.01 | 2.08 | 2.09 | 4,235.18 |
| Building Off Road Diesel | 5.11 | 38.33 | 17.77 | 0.00 | 0.00 | 2.20 | 2.20 | 0.00 | 2.03 | 2.03 | 3,502.14 |
| Building Verdor Trips | 60.0 | 1.14 | 1.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.00 | 0.04 | 0.04 | 199.08 |
| Building Worker Trips | 0.29 | 0.58 | 8.80 | 0.01 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 533.97 |
| Coating 11/15/2009-04/30/2010 | 4.84 | 0.02 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 14.48 |
| Architectural Coating | 4.83 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.02 | 0.24 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00.00 | 14.48 |

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| 10.00 | 6 . | 37.54 | 26.85 | 0.01 | 40.0 | 2.09 | 2.13 | 0.01 | 1.92 | 1.94 | 4,250.07 |
|--------------------------------|-------|-------|-------|-------|-------|-------|--------------|-------|--------------|------|----------|
| Building 08/01/2009-04/15/2010 | 5.16 | 37.52 | 26.63 | 0.01 | 0.03 | 2.09 | 2.12 | 0.01 | 1.92 | 1.93 | 4,235.58 |
| | 4.81 | 35.94 | 17.47 | 0.00 | 0.00 | 2.04 | 2.04 | 0.00 | 1.87 | 1.87 | 3,502.14 |
| | 0.08 | 2.5 | 0.93 | 0.00 | 0.01 | 0.04 | 0.05 | 0.00 | 0.04 | 9.04 | 199.12 |
| | 0.27 | 0.54 | 8.23 | 0.01 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 534.32 |
| | 4.84 | 0.01 | 0.22 | 00.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.49 |
| | 4.83 | 0.00 | 0.00 | 00.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.01 | 0.01 | 0.22 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.49 |
| | 13.47 | 59,61 | 44.46 | 0.01 | 90.0 | 3.71 | 3.77 | 0.02 | 3.41 | 3.43 | 6.530.01 |
| | 3.47 | 22.07 | 17.60 | 0.00 | 0.02 | 1.62 | 2 9.1 | 0.01 | 1.49 | 1.49 | 2,279.93 |
| | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3.22 | 21.47 | 10.63 | 0.00 | 0.00 | 1.60 | 1.60 | 0.00 | 1.47 | 1.47 | 1,809.09 |
| | 0.01 | 0.15 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 21.29 |
| | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449,55 |
| | 5.16 | 37.52 | 26.63 | 0.01 | 0.03 | 2.09 | 2.12 | 0.01 | 1.92 | 1.93 | 4,235.58 |
| | 4.81 | 35.94 | 17.47 | 0.00 | 0.00 | 2.04 | 2.04 | 0.00 | 1.87 | 1.87 | 3,502.14 |
| | 0.08 | 2. | 0.93 | 0.00 | 0.01 | 0.04 | 0.05 | 0.00 | 9 .00 | 0.04 | 199.12 |
| | 0.27 | 0.54 | 8.23 | 0.01 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 | 0.02 | 534.32 |
| | 4.84 | 0.01 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.49 |
| | 4.83 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.01 | 0.01 | 0.22 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 00:00 | 0.00 | 14.49 |

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| 2,294.43 | 2,279.93 | 00.00 | 1,809.09 | 21.29 | 449.55 | 14.49 | 00.0 | 14.49 | 2,279.93 | 2,279.93 | 00:00 | 1,809.09 | 21.29 | 449.55 | |
|---|-------------------------------|----------------|------------------------|-----------------------|---------------------|-------------------------------|-----------------------|----------------------|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|--|
| 1.50 | 1.49 | 0.00 | 1.47 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 1.49 | 1.49 | 0.00 | 1.47 | 0.01 | 0.02 | |
| 1.49 | 1.49 | 0.00 | 1.47 | 0.01 | 0.01 | 0.00 | 0.00 | 00.00 | 1.49 | 1.49 | 0.00 | 1.47 | 0.01 | 0.01 | |
| 0.01 | 0.01 | 00:00 | 00.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 00:00 | 0.01 | |
| 29.1 | 1.64 | 0.00 | 1.60 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 0.00 | 1.60 | 0.01 | 0.03 | |
| 1.62 | 1.62 | 00.00 | 1.60 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 0.00 | 1.60 | 0.01 | 0.01 | |
| 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 00.00 | 0.00 | 0.00 | 0.02 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 17.83 | 17.60 | 0.00 | 10.63 | 0.05 | 6.92 | 0.22 | 0.00 | 0.22 | 17.60 | 17.60 | 0.00 | 10.63 | 0.05 | 6.92 | |
| 22.08 | 22.07 | 0.00 | 21.47 | 0.15 | 0.45 | 0.01 | 0.00 | 0.01 | 22.07 | 22.07 | 0.00 | 21.47 | 0.15 | 0.45 | |
| 8.31 | 3.47 | 0.01 | 3.22 | 0.01 | 0.23 | 4.84 | 4.83 | 0.01 | 3.47 | 3.47 | 0.01 | 3.22 | 0.01 | 0.23 | |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 5/1/2010-5/31/2010 Active Days: 26 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips | |

Phase Assumptions

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

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

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

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

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

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

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 0.37

Off-Road Equipment:

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

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

PM2.5

PM2.5 Exhaust

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- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Architectural Coating 11/15/2009 - 4/30/2010 - Default Architectural Coating Description Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250 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

| PM2.5 Dust |
|--------------|
| PM10 |
| PM10 Exhaust |
| PM10 Dust |
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| XON |
| ROG |

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| 40.35 | 40.35 | 34.07 | 0.04 | 6.22 | 0.01 | 0.44 | 0.44 | 0.22 | 0.20 | 0.00 | 0.02 |
|--|--------------------------------------|---------------|----------------------|---------------------|-------------------|---|--|-------------------|------------------------------|-----------------------------|---------------------------|
| 6.02 | 6.02 | 0.00 | 0.04 | 5.97 | 0.01 | 0.21 | 0.21 | 0.00 | 0.20 | 0.00 | 0.01 |
| 34,33 | 34.33 | 34.07 | 0.00 | 0.25 | 0.00 | 0.23 | 0.23 | 0.22 | 0.00 | 0.00 | 0.01 |
| 171.12 | 171.12 | 163.80 | 0.05 | 7.25 | 0.02 | 1.30 | 1.30 | 1.04 | 0.22 | 0.00 | 0.0 |
| 6.55 | 6.55 | 0.00 | 0.05 | 6.49 | 0.01 | 0.23 | 0.23 | 0.00 | 0.22 | 0.00 | 0.02 |
| 164.58 | 164.58 | 163.80 | 0.00 | 0.76 | 0.01 | 1.07 | 1.07 | 2. | 0.00 | 0.00 | 0.03 |
| 0.21 | 0.21 | 0.00 | 0.00 | 0.20 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 |
| 64.71 | 64.71 | 0.00 | 4.78 | 55.69 | 4.23 | 37.83 | 37.83 | 0.00 | 28.31 | 0.00 | 9.52 |
| 179.40 | 179.40 | 0.00 | 6.93 | 172.19 | 0.28 | 52.32 | 52.32 | 0.00 | 51.69 | 0.00 | 0.62 |
| 11.97 | 11.97 | 0.00 | 1.23 | 10.59 | 0.14 | 7.43 | 7.43 | 0.00 | 7.11 | 0.00 | 0.32 |
| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | Demolition 06/01/2009- 06/15/2009 | Fugitive Dust | Demo Off Road Diesel | Demo On Road Diesel | Demo Worker Trips | Time Slice 6/16/2009-7/15/2009 Active Days: 26 | Mass Grading 06/16/2009- 07/16/2009 | Mass Grading Dust | Mass Grading Off Road Diesel | Mass Grading On Road Diesel | Mass Grading Worker Trips |

22,764.56

22,764.56

0.00

21,807.55 256.72 5,812.32 5,812.32

0.00 5,234.71 0.00 577.61

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| 11,624.63 | 5,812.32 | 0.00 | 5,234.71 | 00.00 | 577.61 | 5,812.32 | 0.00 | 5,234.71 | 0.00 | 577.61 | 5,812.32 | 5,812.32 | 0.00 | 5,234.71 | 0.00 | 577.61 | 4,235.18 | 4,235.18 | 3,502.14 | 199.08 | 533.97 |
|--|--|-------------------|------------------------------|-----------------------------|---------------------------|--|-------------------|------------------------------|-----------------------------|---------------------------|---|--|-------------------|------------------------------|-----------------------------|---------------------------|---|--------------------------------|--------------------------|------------------------------|-----------------------|
| 0.88 | 0.44 | 0.22 | 0.20 | 0.00 | 0.02 | 0.44 | 0.22 | 0.20 | 0.00 | 0.02 | 0.44 | 0.44 | 0.22 | 0.20 | 00.00 | 0.02 | 0.22 | 0.22 | 0.15 | 0.04 | 0.02 |
| 0.42 | 0.21 | 0.00 | 0.20 | 0.00 | 0.01 | 0.21 | 0.00 | 0.20 | 0.00 | 0.01 | 0.21 | 0.21 | 00.00 | 0.20 | 00.00 | 0.01 | 0.20 | 0.20 | 0.15 | 0.04 | 0.01 |
| 0.46 | 0.23 | 0.22 | 0.00 | 0.00 | 0.01 | 0.23 | 0.22 | 0.00 | 0.00 | 0.01 | 0.23 | 0.23 | 0.22 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 |
| 2.61 | 1.30 | 2 . | 0.22 | 0.00 | 0.04 | 1.30 | 1.04 | 0.22 | 00.00 | 0.04 | 1.30 | 1.30 | 1.04 | 0.22 | 0.00 | 0.04 | 0.26 | 0.26 | 0.17 | 90.0 | 0.04 |
| 0.46 | 0.23 | 00.00 | 0.22 | 0.00 | 0.02 | 0.23 | 0.00 | 0.22 | 0.00 | 0.02 | 0.23 | 0.23 | 0.00 | 0.22 | 0.00 | 0.02 | 0.22 | 0.22 | 0.17 | 0.04 | 0.01 |
| 2.15 | 1.07 | 1.04 | 0.00 | 0.00 | 0.03 | 1.07 | 1.04 | 0.00 | 0.00 | 0.03 | 1.07 | 1.07 | 1.04 | 0.00 | 0.00 | 0.03 | 0.03 | 0.03 | 0.00 | 0.01 | 0.03 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 00:00 | 0.01 |
| 75.66 | 37.83 | 0.00 | 28.31 | 00.0 | 9.52 | 37.83 | 0.00 | 28.31 | 0.00 | 9.52 | 37.83 | 37.83 | 0.00 | 28.31 | 0.00 | 9.52 | 27.58 | 27.58 | 17.77 | 1.00 | 8.80 |
| 104.64 | 52.32 | 0.00 | 51.69 | 0.00 | 0.62 | 52.32 | 0.00 | 51.69 | 0.00 | 0.62 | 52.32 | 52.32 | 0.00 | 51.69 | 0.00 | 0.62 | 34.30 | 34.30 | 32.58 | 1.14 | 0.58 |
| <u>14.85</u> 10 | 7.43 5, | 0.00 | 7.11 5 | 0.00 | 0.32 | 7.43 5, | 0.00 | 7.11 5 | 0.00 | 0.32 | 7.43 5. | 7.43 5. | 0.00 | 7.11 5 | 00.00 | 0.32 | 5.49 3 | 5.49 3 | 5.11 3. | 60.0 | 0.29 |
| 41 | 7. | Ö | 7. | Ó | Ö | 7 | Ö | 2 | 0 | Ö | 7 | 7 | 0 | 7 | 0 | 0 | ψ, | 5 | 3 | 0 | 0 |
| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | Fine Grading 07/16/2009- 07/31/2009 | Fine Grading Dust | Fine Grading Off Road Diesel | Fine Grading On Road Diesel | Fine Grading Worker Trips | Mass Grading 06/16/2009- 07/16/2009 | Mass Grading Dust | Mass Grading Off Road Diesel | Mass Grading On Road Diesel | Mass Grading Worker Trips | Time Slice 7/17/2009-7/31/2009 Active Days: 13 | Fine Grading 07/16/2009- 07/31/2009 | Fine Grading Dust | Fine Grading Off Road Diesel | Fine Grading On Road Diesel | Fine Grading Worker Trips | Time Slice 8/1/2009-11/14/2009 Active Days: 91 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips |

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|---|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| 0.01 | 0.01 | 00.00 | 0.00 | 0.01 | 0.00 | 0.00 | 00:00 | 0.01 | 0.01 | 0.00 | 00.00 | 0.01 | 00:00 | 00:00 | 00.0 |
| 0.26 | 0.26 | 0.17 | 0.05 | 0.04 | 0.00 | 00:00 | 00:00 | 0.24 | 0.24 | 0.15 | 0.05 | 0.04 | 0.00 | 0.00 | 00.00 |
| 0.22 | 0.22 | 0.17 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.21 | 0.21 | 0.15 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 |
| 0.04 | 0.03 | 00.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.04 | 0.03 | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 |
| 0.01 | 0.01 | 00.00 | 0.00 | 0.01 | 00.00 | 00.00 | 00.00 | 0.01 | 0.01 | 00.00 | 00.00 | 0.01 | 00.00 | 0.00 | 0.00 |
| 27.81 | 27.58 | 17.77 | 1.00 | 8.80 | 0.24 | 0.00 | 0.24 | 26.85 | 26.63 | 17.47 | 0.93 | 8.23 | 0.22 | 0.00 | 0.22 |
| 34.32 | 34.30 | 32.58 | 1.14 | 0.58 | 0.02 | 0.00 | 0.05 | 32.14 | 32.13 | 30.55 | 1.04 | 35 :0 | 0.01 | 0.00 | 0.01 |
| 6.74 | 5.49 | 5.11 | 0.09 | 0.29 | 1.25 | 1.24 | 0.01 | 8.28 | 5,16 | 4.81 | 0.08 | 0.27 | 3.12 | 3.11 | 0.01 |
| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 1/1/2010-2/27/2010 Active Days: 50 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips |

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| 10/14/2008 12:12:48 PM | | | | | | | | | |
|---|-------|---------------|-------|-------|-------------|------|-------|------|------|
| Time Slice 3/1/2010-4/15/2010 Active Days: 40 | 11.75 | <u> 50.99</u> | 44.46 | 0.01 | <u>0.06</u> | 0.34 | 0.40 | 0.02 | 0.32 |
| Asphalt 03/01/2010-05/31/2010 | 3.47 | 18.85 | 17.60 | 0.00 | 0.02 | 0.14 | 0.16 | 0.01 | 0.13 |
| Paving Off-Gas | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 |
| Paving On Road Diesel | 0.01 | 0.15 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 |
| Building 08/01/2009-04/15/2010 | 5.16 | 32.13 | 26.63 | 0.01 | 0.03 | 0.21 | 0.24 | 0.01 | 0.19 |
| Building Off Road Diesel | 4.81 | 30.55 | 17.47 | 0.00 | 0.00 | 0.15 | 0.15 | 00.0 | 0.14 |
| Building Vendor Trips | 0.08 | <u>5</u> | 0.93 | 0.00 | 0.01 | 0.04 | 0.05 | 0.00 | 0.04 |
| Building Worker Trips | 0.27 | 0.54 | 8.23 | 0.01 | 0.03 | 0.01 | 0.04 | 0.01 | 0.01 |
| Coating 11/15/2009-04/30/2010 | 3.12 | 0.01 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 00.0 | 0.00 |
| Architectural Coating | 3.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.01 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 6:29 | 18.86 | 17.83 | 00:00 | 0.02 | 0.14 | 0.16 | 0.01 | 0.13 |
| Asphalt 03/01/2010-05/31/2010 | 3.47 | 18.85 | 17.60 | 0.00 | 0.02 | 0.14 | 0.16 | 0.01 | 0.13 |
| Paving Off-Gas | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.0 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 00.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 |
| Paving On Road Diesel | 0.01 | 0.15 | 0.05 | 00:00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 00:00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 |
| Coating 11/15/2009-04/30/2010 | 3.12 | 0.01 | 0.22 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | 3.11 | 0.00 | 0.00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.01 | 0.01 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| 2,279.93 | 2,279.93 | 0.00 | 1,809.09 | 21.29 | 449.55 |
|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|
| 0.13 | 0.13 | 0.00 | 0.11 | 0.01 | 0.02 |
| 0.13 | 0.13 | 00.00 | 0.11 | 0.01 | 0.01 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 |
| 0.16 | 0.16 | 00.00 | 0.12 | 0.01 | 0.03 |
| 0.14 | 0.14 | 0.00 | 0.12 | 0.01 | 0.01 |
| 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 |
| 0.00 | 0.00 | 00'0 | 0.00 | 0.00 | 00.00 |
| 17.60 | 17.60 | 00.00 | 10.63 | 0.05 | 6.92 |
| 18.85 | 18.85 | 00.00 | 18.25 | 0.15 | 0.45 |
| 3.47 | 3.47 | 0.01 | 3.22 | 0.01 | 0.23 |
| Time Slice 5/1/2010-5/31/2010 Active Days: 26 | Asphatt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips |

Construction Related Mitigation Measures

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

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

For Tractors/Loaders/Backhoes, the Diesel Particulate Fitter (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%

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

PM10: 85% PM25: 85%

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

For Soll Stablizing Measures, the Apply soll 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:

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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 Fitter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10; 85% PM25; 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | XON | 0 | <u>\$02</u> | PM10 | PM2.5 | <u>CO2</u> |
|-------------------------------|------|------|------|-------------|------|-------|------------|
| Natural Gas | 0.02 | 0.22 | 0.18 | 00:00 | 0.00 | 0.00 | 260.00 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.19 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.33 | 0.24 | 1.73 | 0.00 | 0.01 | 0.01 | 262.81 |

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Area Source Mitigated Detail Report:

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| Source | ROG | NOX | ଖ | 803 | PM10 | PM2.5 | <u>CO2</u> |
|------------------------------|------------------------|--|-----------------|---------|-------------------|-------|------------|
| 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 | 00:00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.19 | | | | | | |
| TOTALS (lbs/day, mitigated) | 0.32 | 0.19 | 1.70 | 0.00 | 0.01 | 0.01 | 210.81 |
| | Area Sour | Area Source Mitigation Measures Selected | asures Selected | | | | |
| Mitigatio | Aitigation Description | | | Percent | Percent Reduction | | |

Area Source Changes to Defaults

20.00

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

Commercial Increase Energy Efficiency Beyond Title 24

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| CO2 | 80,611.82 | 80,611.82 |
|--------|-----------|-------------------------------|
| PM25 | 27.60 | 27.60 |
| PM10 | 141.84 | 141.84 |
| 802 | 0.79 | 0.79 |
| 00 | 1,410.85 | 1,410.85 |
| NOX | 146.25 | 146.25 |
| ROG | 105.94 | 105.94 |
| Source | Casino | TOTALS (lbs/day, unmitigated) |

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

| Source | ROG | XON | 8 | 205 | PM10 | PM25 | |
|-----------------------------|--------|--------|----------|------|--------|-------|--|
| Casino | 105.94 | 146.25 | 1,410.85 | 0.79 | 141.84 | 27.60 | |
| TOTALS (lbs/day, mitigated) | 105.94 | 146.25 | 1,410.85 | 0.79 | 141.84 | 27.60 | |
| | | | | | | | |

C02

80,611.82 80,611.82

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

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

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year; 2010 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| I fee Two | Δοισούο | Trin Rate | Link Type | atic I ON | Total Trian | Total VMAT |
|-----------|---------|-----------|------------|-----------|---------------|------------|
| | 3 | | | | Color Incolor | |
| Gasino | | 92.95 | 1000 sq ft | 32.50 | 3,020.87 | 82,072.34 |
| | | | | | 3,020.87 | 82,072.34 |

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| | | Vehicle Fleet Mix | t Mix | | | | |
|-------------------------------------|-----------|-------------------|----------------|---------|------------|----------|--|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel | |
| Light Auto | | 32.7 | 2.4 | | 0.79 | 9.0 | |
| Light Truck < 3750 lbs | | 24.5 | 4.1 | | 86.5 | 9.4 | |
| Light Truck 3751-5750 lbs | | 19.6 | 1 . | | 98.0 | 0.5 | |
| Med Truck 5751-8500 lbs | | 1.6 | 1.1 | | 8.76 | 1.1 | |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 64.0 | 36.0 | |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 41.7 | 58.3 | |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 11.1 | | 22.2 | 66.7 | |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 6.0 | 0.0 | | 0.0 | 100.0 | |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 | |
| Motorcycle | | 6.4 | 67.2 | | 32.8 | 0.0 | |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Motor Home | | 2.0 | 5.0 | | 85.0 | 10.0 | |
| | | Travel Conditions | litions | | | | |
| | | Residential | | | Commercial | | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer | |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 | |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | | |

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Travel Conditions

Commercial Residential

Customer Non-Work Commute Home-Other Home-Shop Home-Work

% of Trips - Commercial (by land use)

92.5

2.5

5.0

Operational Changes to Defaults

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

Casino

Home-based work rural trip length changed from 16.8 miles to 28 miles

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

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

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

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

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

10/14/2008 12:14:48 PM

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

Project Name: Ione Alt C - Cumulative Operation

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

| AREA SOURCE EMISSION ESTIMATES | | | | | |
|--|------------|-------|-------|------------|-------|
| • | <u>ROG</u> | NOX | 잉 | 802 | PM10 |
| TOTALS (tons/year, unmitigated) | 0.04 | 0.04 | 0.17 | 0.00 | 0.00 |
| TOTALS (tons/year, mitigated) | 0.04 | 0.03 | 0.17 | 0.00 | 0.00 |
| Percent Reduction | 0.00 | 25.00 | 00.00 | NaN | NaN |
| | | | | | |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | |
| | ROG | NOX | 얾 | <u>805</u> | PM10 |
| TOTALS (tons/year, unmitigated) | 69.9 | 5.53 | 62.75 | 0.14 | 25.61 |
| TOTALS (tons/year, mitigated) | 69.9 | 5.53 | 62.75 | 0.14 | 25.61 |
| Percent Reduction | 0.00 | 0.00 | 00.00 | 0.00 | 00.00 |

47.70

0.00

38.21

0.00

C02

PM2.5

19.90

NaN

C02

PM2.5

14,181.80

4.79

0.00

Page: 2

10/14/2008 12:14:49 PM

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | 임 | <u>S02</u> | PM10 | PM2.5 | <u>CO2</u> |
|---------------------------------|------|------|-------|------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 6.73 | 5.57 | 62.92 | 0.14 | 25.61 | 4.79 | 14,229.50 |
| TOTALS (tons/year, mitigated) | 6.73 | 5.56 | 62.92 | 0.14 | 25.61 | 4.79 | 14,220.01 |
| Percent Reduction | 0.00 | 0.18 | 0.00 | 00.00 | 0.00 | 0.00 | 0.07 |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

Project Name: Ione Alt C - Cumulative Operation

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

10/14/2008 12:17:28 PM

Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOX | 8 | 202 | PM10 | PM2.5 | CO2 |
|---|---------|-------|--------|-------------|--------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 0.33 | 0.24 | 1.73 | 0.00 | 0.01 | 0.01 | 262.81 |
| TOTALS (lbs/day, mitigated) | 0.32 | 0.19 | 1.70 | 0.00 | 0.01 | 0.01 | 210.81 |
| Percent Reduction | 3.03 | 20.83 | 1.73 | NaN | 00.00 | 0.00 | 19.79 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | ×ON | 0 | <u>\$05</u> | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26.26 | 81,369.59 |
| TOTALS (lbs/day, mitigated) | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26.26 | 81,369.59 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00'0 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | TIMATES | | | | | | |
| | ROG | XON | 8 | 802 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 33.07 | 25.97 | 339,91 | 0.78 | 140.33 | 26.27 | 81,632.40 |
| TOTALS (lbs/day, mitigated) | 33.06 | 25.92 | 339.88 | 0.78 | 140.33 | 26.27 | 81,580.40 |
| Percent Reduction | 0.03 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 90:0 |

10/14/2008 12:17:28 PM

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

260.00

2.81

262.81

| AREA SOURCE EMISSION ES LIMATES SUITIFIET POUTUS PET DAY, OTITITIQATED | ier routids ret Da | y, onimigated | | | | | |
|--|--------------------|---------------|------|-------------|------|-------|-------|
| Source | ROG | NOX | 잉 | <u>807</u> | PM10 | PM2.5 | |
| Natural Gas | 0.02 | 0.22 | 0.18 | 0.00 | 0.00 | 00'0 | • • • |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.19 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.33 | 0.24 | 1.73 | 0.00 | 0.01 | 0.01 | |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | ner Pounds Per Da | y, Mitigated | | | | | |
| Source | ROG | NOX | 8 | <u>\$05</u> | PM10 | PM2.5 | |
| Natural Gas | 0.01 | 0.17 | 0.15 | 0.00 | 0.00 | 0.00 | |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.19 | | | | | | |

208.00

2.81

210.81

0.01

0.01

0.00

1.70

0.19

0.32

TOTALS (lbs/day, mitigated)

<u>CO2</u>

Area Source Changes to Defaults

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

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

10/14/2008 12:17:28 PM

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | XON | 8 | SO2 | PM10 | PM25 | 002 |
|--------------------------------------|---------------------------------|----------------|--------|------|--------|-------|-----------|
| Casino | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26.26 | 81,369.59 |
| TOTALS (lbs/day, unmitigated) | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26.26 | 81,369.59 |
| Operational Mitigated Detail Report: | | | | | | | |
| OPERATIONAL EMISSION ESTIMATES Sum | ımmer Pounds Per Day, Mitigated | Day, Mitigated | | | | | |
| Source | ROG | NOX | 00 | 802 | PM10 | PM25 | C02 |
| Casino | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26.26 | 81,369.59 |
| TOTALS (ibs/day, mitigated) | 32.74 | 25.73 | 338.18 | 0.78 | 140.32 | 26,26 | 81,369.59 |

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Land Use Type | Acreage | Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
|---------------|--------------|-------------------|--------------|-----------|-------------|-----------|
| Casino | | 92.95 | 1000 sq ft | 32.50 | 3,020.87 | 82,072.34 |
| | | | | | 3,020.87 | 82,072.34 |
| | × | Vehicle Fleet Mix | ×I | | | |
| Vehicle Type | Percent Type | ype | Non-Catalyst | , | Catalyst | Diesel |
| Light Auto | | 32.8 | 0.0 | - | 100.0 | 0.0 |

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| | | Vehicle Fleet Mix | et Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Truck < 3750 lbs | | 24.4 | 0.0 | | 99.2 | 8.0 |
| Light Truck 3751-5750 lbs | | 19.8 | 0.0 | | 100.0 | 0.0 |
| Med Truck 5751-8500 lbs | | 9.2 | 0.0 | | 100.0 | 0.0 |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 80.0 | 20.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 58.3 | 41.7 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 0.0 | | 22.2 | 77.8 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 0.7 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.3 | 33.3 | | 2.99 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 0.0 | | 0.06 | 10.0 |
| | | Travel Conditions | ditions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

% of Trips - Commercial (by land use)

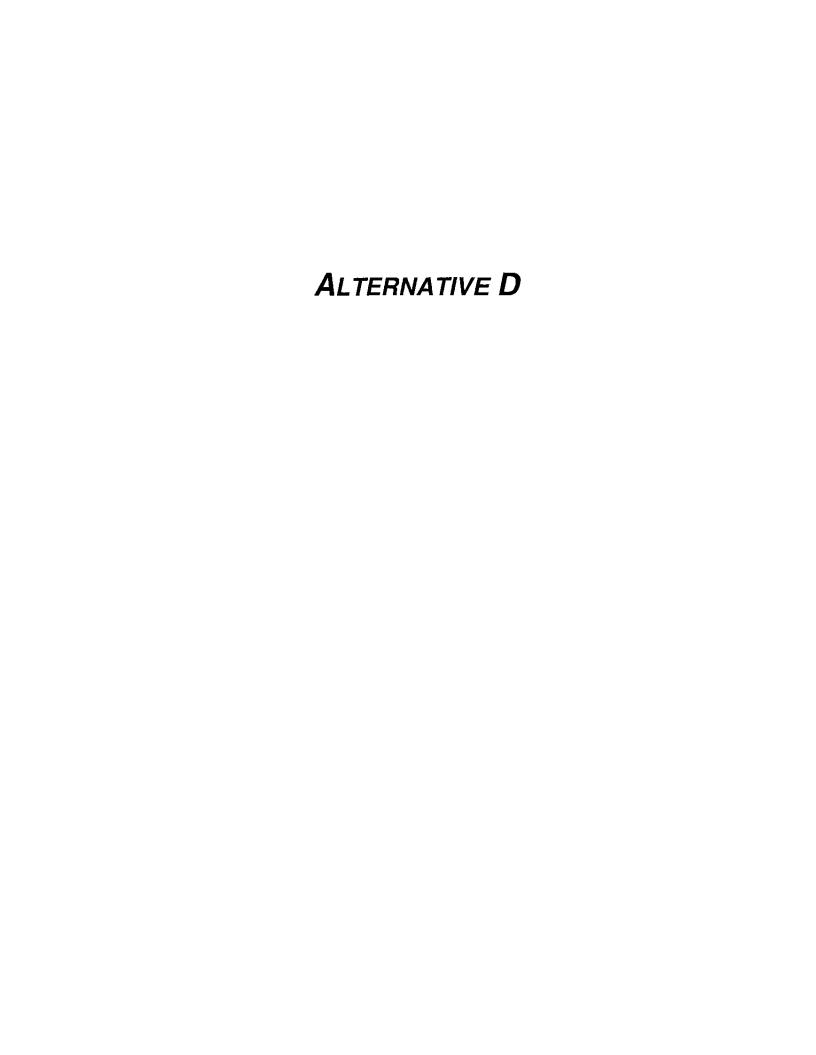
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Travel Conditions

Commercial Residential

92.5 2.5 5.0

Customer Non-Work Commute Home-Other Home-Shop Home-Work Casino



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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

| | ROG | NON | 8 | <u>802</u> | PM10 Dust PM10 Exhaust | 410 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | CO3 |
|-------------------------------------|-------|-------|-------|------------|------------------------|-------------|-------|------------|------------------|-------|--------|
| 2009 TOTALS (tons/year unmitigated) | 96:0 | 4.83 | 4.49 | 0.00 | 1.38 | 0.24 | 1.62 | 0.29 | 0.22 | 0.51 | 629.13 |
| 2009 TOTALS (tons/year mitigated) | 0.69 | 4.34 | 4.49 | 00:00 | 1.10 | 0.07 | 1.17 | 0.23 | 0.07 | 0:30 | 629.13 |
| Percent Reduction | 28.37 | 66.6 | 0.00 | 0.00 | 20.40 | 68.98 | 27.57 | 20.33 | 69.03 | 41.34 | 0.00 |
| | | | | | | | | | | | |
| 2010 TOTALS (tons/year unmitigated) | 1.36 | 2.74 | 3.07 | 0.00 | 0.01 | 0.16 | 0.17 | 00'0 | 0.15 | 0.15 | 373.62 |
| 2010 TOTALS (tons/year mitigated) | 1.02 | 2.37 | 3.07 | 0.00 | 0.01 | 0.02 | 0.03 | 0.00 | 0.02 | 0.02 | 373.62 |
| Percent Reduction | 24.81 | 13.28 | 00.00 | 00.00 | 00:00 | 86.54 | 82.96 | 0.00 | 86.61 | 85.19 | 0.00 |
| | | | | | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | XON | 잉 | <u>S02</u> | <u>PM10</u> | PM2.5 | <u>C07</u> | | | |
| TOTALS (tons/year, unmitigated) | | 0.16 | 0.22 | 0.32 | 0.00 | 0.00 | 0.00 | 261.17 | | | |
| TOTALS (tons/year, mitigated) | | 0.15 | 0.17 | 0.29 | 0.00 | 00.00 | 0.00 | 208.99 | | | |
| Percent Reduction | | 6.25 | 22.73 | 9.37 | NaN | NaN | NaN | 19.98 | | | |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| | ROG | NOX | 00 | 202 | PM10 | PM2.5 | <u>CO2</u> | |
|---|-------------|-------|--------|-------------|-------|-------|------------|--|
| TOTALS (tons/year, unmitigated) | 54.69 | 74.67 | 630.89 | 0.33 | 61.50 | 11.97 | 33,554.31 | |
| TOTALS (tons/year, mitigated) | 54.69 | 74.67 | 630.89 | 0.33 | 61.50 | 11.97 | 33,554.31 | |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | | | | | |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | ION ESTIMAT | ES | | | | | | |
| | ROG | XON | 00 | <u>\$05</u> | PM10 | PM2.5 | C02 | |
| TOTALS (tons/year, unmitigated) | 54.85 | 74.89 | 631.21 | 0.33 | 61.50 | 11.97 | 33,815.48 | |
| TOTALS (tons/year, mitigated) | 54.84 | 74.84 | 631.18 | 0.33 | 61.50 | 11.97 | 33,763.30 | |
| Percent Reduction | 0.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | |
| | | | | | | | | |

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

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

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

SETAMITED IN EMISSION ESTIMATES

| CONSTRUCTION EMISSION ESTIMATES | | | | | | | | | | | |
|-----------------------------------|-------|--------|-------|------------|------------------------|-------------|--------|------------|------------------|-------|-----------|
| | ROG | XON | 잉 | <u>802</u> | PM10 Dust PM10 Exhaust | 110 Exhaust | PM10 | PM2.5 Dust | PM2.5 Exhaust | PM2.5 | 8 |
| 2009 TOTALS (lbs/day unmitigated) | 24.78 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 17.171 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| 2009 TOTALS (lbs/day mitigated) | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| | | | | | | | | | | | |
| 2010 TOTALS (lbs/day unmitigated) | 27.91 | 63.53 | 70.22 | 0.03 | 0.16 | 3.82 | 3.97 | 90:00 | 3.51 | 3.56 | 8,580.81 |
| 2010 TOTALS (lbs/day mitigated) | 21.38 | 55.06 | 70.22 | 0.03 | 0.16 | 0.51 | 99.0 | 90.0 | 0.46 | 0.52 | 8,580.81 |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | | | |
| | | ROG | NOX | 3 | 202 | PM10 | PM2.5 | <u>CO2</u> | | | |
| TOTALS (lbs/day, unmitigated) | | 0.93 | 1.21 | 2.55 | 0.00 | 0.01 | 0.01 | 1,432.51 | | | |
| TOTALS (lbs/day, mitigated) | | 0.91 | 0.97 | 2.35 | 0.00 | 0.01 | 0.01 | 1,146.57 | | | |
| Percent Reduction | | 2.15 | 19.83 | 7.84 | NaN | 00:0 | 0.00 | 19.96 | | | |

Page: 2

10/14/2008 12:38:47 PM

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

| <u>CO2</u> | 191,606.12 | 191,606.12 | 0.00 | | 200 | 193,038.63 | 192,752.69 | 0.15 |
|-------------|-------------------------------|-----------------------------|-------------------|---|-------|-------------------------------|-----------------------------|-------------------|
| PM2.5 | 62.59 | 62.59 | 0.00 | | PM2.5 | 65.60 | 65.60 | 0.00 |
| PM10 | 336.97 | 336.97 | 0.00 | | PM10 | 336.98 | 336.98 | 0.00 |
| <u>\$02</u> | 1.87 | 1.87 | 0.00 | | 802 | 1.87 | 1.87 | 0.0 |
| 임 | 3,364.48 | 3,364.48 | 0.00 | | 3 | 3,367.03 | 3,366.83 | 0.01 |
| Ň | 348.96 | 348.96 | 00.0 | | NON | 350.17 | 349.93 | 0.07 |
| <u>ROG</u> | 263.60 | 263.60 | 0.00 | SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | ROG | 264.53 | 264.51 | 0.01 |
| | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction | SUM OF AREA SOURCE AND C | | TOTALS (lbs/day, unmitigated) | TOTALS (lbs/day, mitigated) | Percent Reduction |

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| | ROG | NON | 8 | 802 | PM10 Dust | PM10 Exhaust | PM10 | PM2.5 Dust | | PM2.5 | <u> </u> |
|--|-------|--------|-------|------|-----------|--------------|--------|------------|------|-------|-----------|
| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | | 40.89 | 22,764.56 |
| Demalition 06/01/2009- 06/15/2009 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| Fugitive Dust | 0.00 | 00.0 | 0.00 | 0.00 | 163.80 | 0.00 | 163.80 | 34.07 | | 34.07 | 0.00 |
| Demo Off Road Diesel | 1.23 | 8.15 | 4.78 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | | 0.59 | 700.30 |
| Demo On Road Diesel | 10.59 | 172.19 | 55.69 | 0.20 | 0.76 | 6.49 | 7.25 | 0.25 | | 6.22 | 21,807.55 |
| Demo Worker Trips | 0.14 | 0.28 | 4.23 | 0.00 | 0.0 | 0.01 | 0.02 | 0.00 | | 0.01 | 256.72 |

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| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
|---|------|-------|-------|-------|-------|------|-------|------|------|------|----------|
| Mass Grading 06/16/2009- 07/16/2009 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
| Mass Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 4.48 | 37.72 | 17.36 | 0.00 | 0.00 | 1.86 | 1.86 | 0.00 | 1.71 | 1.71 | 3,273.91 |
| Mass Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.21 | 0.42 | 6.35 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 9.38 | 76.27 | 47.41 | 0.01 | 29.64 | 3.74 | 33.37 | 6.20 | 3.44 | 9.63 | 7,317.98 |
| Fine Grading 07/16/2009- 07/31/2009 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
| Fine Grading Dust | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 4.48 | 37.72 | 17.36 | 0.00 | 0.00 | 1.86 | 1.86 | 0.00 | 1.71 | 1.71 | 3,273.91 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.21 | 0.42 | 6.35 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| Mass Grading 06/16/2009- 07/16/2009 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
| Mass Grading Dust | 0.00 | 00.0 | 0.00 | 00.00 | 14.80 | 0.00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Mass Grading Off Road Diesel | 4.48 | 37.72 | 17.36 | 00.00 | 0.00 | 1.86 | 1.86 | 0.00 | 1.71 | 1.71 | 3,273.91 |
| Mass Grading On Road Diesel | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 |
| Mass Grading Worker Trips | 0.21 | 0.42 | 6.35 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |

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| Time Slice 7/17/2009-7/31/2009 Active Days: 13 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|
| Fine Grading 07/16/2009- 07/31/2009 | 4.69 | 38.14 | 23.71 | 0.00 | 14.82 | 1.87 | 16.69 | 3.10 | 1.72 | 4.82 | 3,658.99 |
| Fine Grading Dust | 0.00 | 00.00 | 0.00 | 0.00 | 14.80 | 00:00 | 14.80 | 3.09 | 0.00 | 3.09 | 0.00 |
| Fine Grading Off Road Diesel | 4.48 | 37.72 | 17.36 | 0.00 | 0.00 | 1.86 | 1.86 | 0.00 | 1.71 | 1.71 | 3,273.91 |
| Fine Grading On Road Diesel | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 00:00 | 00.00 | 0.00 | 0.00 | 0.00 |
| Fine Grading Worker Trips | 0.21 | 0.42 | 6.35 | 00.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| Time Slice 8/1/2009-11/14/2009 Active Days: 91 | 6.42 | 43.80 | 54.36 | 0.03 | 0.13 | 2.36 | 2.49 | 0.05 | 2.16 | 2.21 | 6,183.97 |
| Building 08/01/2009-04/15/2010 | 6.42 | 43.80 | 54.36 | 0.03 | 0.13 | 2.36 | 2.49 | 0.05 | 2.16 | 2.21 | 6,183.97 |
| Building Off Road Diesel | 4.98 | 37.29 | 17.19 | 00.00 | 0.00 | 2.14 | 2.14 | 0.00 | 1.97 | 1.97 | 3,404.04 |
| Building Vendor Trips | 0.33 | 4.32 | 3.80 | 0.01 | 0.03 | 0.16 | 0.19 | 0.01 | 0.15 | 0.16 | 754.96 |
| Building Worker Trips | 1.11 | 2.19 | 33.37 | 0.02 | 0.10 | 0.05 | 0.16 | 0.04 | 0.05 | 0.08 | 2,024.97 |
| Time Slice 11/16/2009-12/31/2009 Active Days: 40 | 24.78 | 43.86 | 55.27 | 0.03 | 0.13 | 2.36 | 2.49 | 0.05 | 2.17 | 2.21 | 6,238.90 |
| Building 08/01/2009-04/15/2010 | 6.42 | 43.80 | 54.36 | 0.03 | 0.13 | 2.36 | 2.49 | 90.0 | 2.16 | 2.21 | 6,183.97 |
| Building Off Road Diesel | 4.98 | 37.29 | 17.19 | 0.00 | 0.00 | 2.14 | 2.14 | 0.00 | 1.97 | 1.97 | 3,404.04 |
| Building Vendor Trips | 0.33 | 4.32 | 3.80 | 0.01 | 0.03 | 0.16 | 0.19 | 0.01 | 0.15 | 0.16 | 754.96 |
| Building Worker Trips | 1.11 | 2.19 | 33.37 | 0.02 | 0.10 | 0.05 | 0.16 | 0.04 | 0.05 | 0.08 | 2,024.97 |
| Coating 11/15/2009-04/30/2010 | 18.36 | 90:0 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.93 |
| Architectural Coating | 18.33 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.03 | 90:0 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 0.00 | 54.93 |

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| 6,240.44 | 6,185.48 | 3,404.04 | 755.14 | 2,026.30 | 54.97 | 0.00 | 54.97 | 8.580.81 | 2,340.36 | 0.00 | 1,809.09 | 81.73 | 449.55 | 6,185.48 | 3,404.04 | 755.14 | 2,026.30 | 54.97 | 0.00 | 54.97 |
|--|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| 2.05 | 2.05 | 1.82 | 0.15 | 90:0 | 0.00 | 0.00 | 0.00 | 3.56 | 1.51 | 0.00 | 1.47 | 0.02 | 0.02 | 2.05 | 1.82 | 0.15 | 90.0 | 0.00 | 0.00 | 0.00 |
| 2.01 | 2.00 | 1.82 | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 | 3.51 | 1.50 | 0.00 | 1.47 | 0.02 | 0.01 | 2.00 | 1.82 | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 |
| 0.05 | 0.05 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 90.0 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 |
| 2.32 | 2.31 | 1.98 | 0.18 | 0.16 | 0.00 | 0.00 | 0.00 | 3.97 | 1.66 | 0.00 | 1.60 | 0.02 | 0.03 | 2.31 | 1.98 | 0.18 | 0.16 | 0.00 | 0.00 | 0.00 |
| 2.18 | 2.18 | 1.98 | 0.15 | 0.05 | 0.00 | 0.00 | 0.00 | 3.82 | 1.63 | 0.00 | 1.60 | 0.02 | 0.01 | 2.18 | 1.98 | 0.15 | 90.0 | 0.00 | 0.00 | 0.00 |
| 0.13 | 0.13 | 0.00 | 0.03 | 0.10 | 0.00 | 0.00 | 0.00 | 0.16 | 0.03 | 0.00 | 0.00 | 0.00 | 0.02 | 0.13 | 0.00 | 0.03 | 0.10 | 0.00 | 0.00 | 0.00 |
| 0.03 | 0.03 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| 52.47 | 51.62 | 16.89 | 3.54 | 31.19 | 0.85 | 0.00 | 0.85 | 70.22 | 17.75 | 0.00 | 10.63 | 0.19 | 6.92 | 51.62 | 16.89 | 3.54 | 31.19 | 0.85 | 0.00 | 0.85 |
| 41.02 | 40.97 | 34.98 | 3.96 | 2.03 | 90.0 | 0.00 | 90.0 | 63.53 | 22.51 | 0.00 | 21.47 | 0.59 | 0.45 | 40.97 | 34.98 | 3.96 | 2.03 | 90.0 | 0.00 | 90:0 |
| 24.38 | 6.02 | 4.68 | 0.31 | 1.03 | 18.36 | 18.33 | 0.03 | 27.91 | 3.53 | 0.05 | 3.22 | 0.04 | 0.23 | 6.02 | 4.68 | 0.31 | 1.03 | 18.36 | 18.33 | 0.03 |
| Time Slice 1/1/2010-2/27/2010 Active Days: 50 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 3/1/2010-4/15/2010 Active Days: 40 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips |

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|---|-------------------------------|----------------|------------------------|-----------------------|---------------------|-------------------------------|-----------------------|----------------------|--|-------------------------------|----------------|------------------------|-----------------------|---------------------|
| 1.51 | 1.51 | 0.00 | 1.47 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 1.51 | 1.51 | 0.00 | 1.47 | 0.02 | 0.02 |
| 1.50 | 1.50 | 0.00 | 1.47 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 0.00 | 1.47 | 0.02 | 0.01 |
| 0.01 | 0.01 | 00:00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 00:00 | 0.01 |
| 1.66 | 1.66 | 0.00 | 1.60 | 0.02 | 0.03 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 0.00 | 1.60 | 0.02 | 0.03 |
| 1.63 | 1.63 | 0.00 | 1.60 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 0.00 | 1.60 | 0.02 | 0.01 |
| 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.02 |
| 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18.59 | 17.75 | 0.00 | 10.63 | 0.19 | 6.92 | 0.85 | 0.00 | 0.85 | 17.75 | 17.75 | 0.00 | 10.63 | 0.19 | 6.92 |
| 22.56 | 22.51 | 0.00 | 21.47 | 0.59 | 0.45 | 90.0 | 0.00 | 90.0 | 22.51 | 22.51 | 0.00 | 21.47 | 0.59 | 0.45 |
| 21.89 | 3.53 | 0.05 | 3.22 | 0.04 | 0.23 | 18.36 | 18.33 | 0.03 | 3.53 | 3.53 | 0.05 | 3.22 | 0.04 | 0.23 |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 5/1/2010-5/31/2010 Active Days: 26 | Asphalt 03/01/2010-05/31/2010 | Paving Off-Gas | Paving Off Road Diesel | Paving On Road Diesel | Paving Worker Trips |

Phase Assumptions

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

Building Volume Total (cubic feet): 390000

Building Volume Daily (cubic feet): 390000

On Road Truck Travel (VMT): 5416.67

Off-Road Equipment:

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

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

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

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

Total Acres Disturbed: 40

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Total Acres Disturbed: 30

Maximum Daily Acreage Disturbed: 0.74

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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

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

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

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

Acres to be Paved: 1.42

Off-Road Equipment:

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

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

PM2.5

PM2.5 Exhaust

PM2.5 Dust

PM10

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- I Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day
- 2 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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

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

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

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

PM10 Exhaust PM10 Dust <u>S02</u> 엉 Š ROG

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| Time Slice 6/1/2009-6/15/2009 Active Days: 13 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 75'9 | 40.89 | 22.764.56 |
|---|-------|--------|-------|------|--------|------|--------|-------|------|-------|-----------|
| Demolition 06/01/2009- 06/15/2009 | 11.97 | 180.62 | 64.71 | 0.21 | 164.58 | 7.14 | 171.71 | 34.33 | 6.57 | 40.89 | 22,764.56 |
| Fugitive Dust | 00.0 | 00.00 | 0.00 | 0.00 | 163.80 | 0.00 | 163.80 | 34.07 | 0.00 | 34.07 | 0.00 |
| Demo Off Road Diesel | 1.23 | 8.15 | 4.78 | 0.00 | 0.00 | 0.64 | 0.64 | 0.00 | 0.59 | 0.59 | 700.30 |
| Demo On Road Diesel | 10.59 | 172.19 | 55.69 | 0.20 | 0.76 | 6.49 | 7.25 | 0.25 | 5.97 | 6.22 | 21,807.55 |
| Demo Worker Trips | 0.14 | 0.28 | 4.23 | 0.00 | 0.01 | 0.01 | 0.05 | 00:0 | 0.01 | 0.01 | 256.72 |
| Time Slice 6/16/2009-7/15/2009 Active Days: 26 | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| Mass Grading 06/16/2009- 07/16/2009 | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| Mass Grading Dust | 00.0 | 0.00 | 0.00 | 0.00 | 2. | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| Mass Grading Off Road Diesel | 4.48 | 32.06 | 17.36 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.13 | 0.13 | 3,273.91 |
| Mass Grading On Road Diesel | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mass Grading Worker Trips | 0.21 | 0.42 | 6.35 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |

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| Time Grading Duties Cooked Britand State (1.2) 4.64 2.24.4 2.27.1 0.06 0.16 0.16 0.16 0.16 0.16 0.16 0.10 0.10 0.20 0.10 < | Time Slice 7/16/2009-7/16/2009 Active Days: 1 | 9.38 | 64.96 | 47.41 | 0.01 | 2.13 | 0.30 | 2.43 | 0.45 | 0.27 | 0.72 | 7,317.98 |
|--|--|-------|-------|-------|-------|-------|------|------|-------|--------------|-------|----------|
| 100 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0 | | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| 861 448 32.06 17.36 0.00 0.01 0.14 0.02 0.03 0.14 0.02 0.03 <th< td=""><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>00.0</td><td>1.04</td><td>0.00</td><td>1.04</td><td>0.22</td><td>00:00</td><td>0.22</td><td>00:00</td></th<> | | 0.00 | 0.00 | 0.00 | 00.0 | 1.04 | 0.00 | 1.04 | 0.22 | 00:00 | 0.22 | 00:00 |
| 941 0,00 | Diesel | 4.48 | 32.06 | 17.36 | 00.00 | 0.00 | 0.14 | 0.14 | 00.00 | 0.13 | 0.13 | 3,273.91 |
| 621 042 635 000 020 010 003 001 003 001 003 001 003 001 003 004 003 014 015 014 015 014 015 014 015 014 015 014 015 014 016 017 018 018 014 016 017 018 <td>Diesel</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>00:00</td> <td>00.00</td> | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00:00 | 00.00 |
| 4.69 32.48 23.71 0.00 1.04 0.15 < | Frips | 0.21 | 0.42 | 6.35 | 00.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| sel 4.48 0.00 0.00 1.04 0.00 1.04 0.00 0.02 0.02 0.04 0.04 0.04 0.02 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 | ъ | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| sel 448 32.06 17.36 0.00 0.04 0.14 0.14 0.19 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.14 0.21 0.14 0.02 0.14 0.22 0.14 0.23 0.14 0.23 0.14 0.23 0.14 0.23 0.14 0.23 0.14 0.23 0.14 0.23 0.14 0.23 0.14 <th< td=""><td></td><td>00.00</td><td>0.00</td><td>0.00</td><td>00.0</td><td>1.04</td><td>0.00</td><td>1.04</td><td>0.22</td><td>0.00</td><td>0.22</td><td>0.00</td></th<> | | 00.00 | 0.00 | 0.00 | 00.0 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| sed 0.00 | ad Diesel | 4.48 | 32.06 | 17.36 | 00.00 | 0.00 | 0.14 | 0.14 | 00.00 | 0.13 | 0.13 | 3,273.91 |
| s 0.21 0.42 6.35 0.00 0.02 0.01 0.03 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.04 0.02 0.04 0.05 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.03 0.14 0.04 0.03 0.04 0.03 0.04 0. | ad Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00'0 |
| 4.69 32.48 23.71 0.00 1.06 0.15 1.21 0.23 0.14 0.36 4.69 32.48 23.71 0.00 1.06 0.15 1.21 0.23 0.14 0.36 8el 0.00 0.00 0.00 0.04 0.04 0.04 0.07 0.03 0. | er Trips | 0.21 | 0.42 | 6.35 | 00.0 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| 4.69 32.48 23.71 0.00 1.06 0.15 0.15 0.21 0.22 0.04 0.22 0.02 0.22 0.02 0.22 0.03 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.14 0.04 0.03 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.04 0.04 < | 1/2009 | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| sel 4.48 52.06 0.00 1.04 0.04 0.04 0.02 0.02 0.02 0.02 0.03 0.14 0.04 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.03 0.03 0.04 0.03 0.04 0.04 0.03 0.03 0.04 0.04 0.03 0.03 0.03 0.04 0.04 0.03 0.03 0.04 0.04 0.03 0.04 0.05 0.04 0.05 0.04 <th< td=""><td>-60</td><td>4.69</td><td>32.48</td><td>23.71</td><td>0.00</td><td>1.06</td><td>0.15</td><td>1.21</td><td>0.23</td><td>0.14</td><td>0.36</td><td>3,658.99</td></th<> | -60 | 4.69 | 32.48 | 23.71 | 0.00 | 1.06 | 0.15 | 1.21 | 0.23 | 0.14 | 0.36 | 3,658.99 |
| sel 4.48 32.06 17.36 0.00 0.00 0.14 0.14 0.14 0.14 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.00 <t< td=""><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>1.04</td><td>0.00</td><td>1.04</td><td>0.22</td><td>0.00</td><td>0.22</td><td>0.00</td></t<> | | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 | 0.22 | 0.00 | 0.22 | 0.00 |
| sel 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.01 0.02 0.03 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.02 0.02 0.03 0.01 0.01 0.02 0.03 0.01 0.01 0.02 | ad Diesel | 4.48 | 32.06 | 17.36 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.13 | 0.13 | 3,273.91 |
| 10.21 0.42 6.45 0.00 0.02 0.01 0.03 0.01 0.03 0.01 0.02 0.01 0.02 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.06 0.06 0.06 0.06 0.07 0.05 <t< td=""><td>ad Diesel</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>00.00</td><td>0.00</td><td>00:0</td><td>0.00</td><td>0.00</td><td>00:00</td><td>0.00</td></t<> | ad Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 00.00 | 0.00 | 00:0 | 0.00 | 0.00 | 00:00 | 0.00 |
| 10 6.42 38.21 54.36 0.03 0.13 0.38 0.51 0.05 0.34 0.39 10 6.42 38.21 54.36 0.03 0.13 0.38 0.51 0.05 0.34 0.39 4.98 31.70 17.19 0.00 0.00 0.16 0.16 0.05 0.15 0.15 0.15 0.33 4.32 3.80 0.01 0.03 0.16 0.01 0.05 0.16 0.05 0.16 1.11 2.19 33.37 0.02 0.10 0.05 0.16 0.04 0.05 0.06 <td>rTrips</td> <td>0.21</td> <td>0.42</td> <td>6.35</td> <td>00.00</td> <td>0.02</td> <td>0.01</td> <td>0.03</td> <td>0.01</td> <td>0.01</td> <td>0.02</td> <td>385.07</td> | rTrips | 0.21 | 0.42 | 6.35 | 00.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 385.07 |
| 6.42 38.21 54.36 0.03 0.13 0.38 0.51 0.05 0.34 0.39 6 4.98 31.70 17.19 0.00 0.00 0.16 0.16 0.01 0.15 0.15 0.15 0.15 0.16 0 | 4/2009 | 6.42 | 38.21 | 54.36 | 0.03 | 0.13 | 0.38 | 0.51 | 0.05 | 0.34 | 0.39 | 6,183.97 |
| 4.98 31.70 17.19 0.00 0.00 0.16 0.16 0.00 0.15 0.15 0.15 0.15 0.15 0.15 0.16 0.33 4.32 3.80 0.01 0.03 0.16 0.19 0.01 0.16 0.04 0.05 0.08 2 1.11 2.19 33.37 0.02 0.10 0.05 0.16 0.04 0.05 0.08 2 | 15/2010 | 6.42 | 38.21 | 54.36 | 0.03 | 0.13 | 0.38 | 0.51 | 0.05 | 0.3 4 | 0.39 | 6,183.97 |
| 0.33 4.32 3.80 0.01 0.03 0.16 0.19 0.01 0.15 0.16 1.11 2.19 33.37 0.02 0.10 0.05 0.16 0.05 0.05 0.05 0.08 2 | sel | 4.98 | 31.70 | 17.19 | 0.00 | 0.00 | 0.16 | 0.16 | 00.00 | 0.15 | 0.15 | 3,404.04 |
| 1.11 2.19 33.37 0.02 0.10 0.05 0.16 0.04 0.05 0.08 | | 0.33 | 4.32 | 3.80 | 0.01 | 0.03 | 0.16 | 0.19 | 0.01 | 0.15 | 0.16 | 754.96 |
| | | 1.11 | 2.19 | 33.37 | 0.02 | 0.10 | 0.05 | 0.16 | 0.04 | 0.05 | 0.08 | 2,024.97 |

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| 6,238.90 | 6,183.97 | 3,404.04 | 754.96 | 2,024.97 | 54.93 | 0.00 | 54.93 | 6,240.44 | 6,185.48 | 3,404.04 | 755.14 | 2,026.30 | 54.97 | 0.00 | 54.97 |
|---|--------------------------------|--------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|--------------------------------|--------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|----------------------|
| 0.39 | 0.39 | 0.15 | 0.16 | 0.08 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.14 | 0.15 | 0.08 | 0.00 | 0.00 | 0.00 |
| 0.35 | 0.34 | 0.15 | 0.15 | 0.05 | 0.00 | 0.00 | 0.00 | 0.32 | 0.32 | 0.14 | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 |
| 0.05 | 0.05 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 |
| 0.51 | 0.51 | 0.16 | 0.19 | 0.16 | 0.00 | 0.00 | | 0.48 | | 0.15 | | 0.16 | 0.00 | 00.00 | 0.00 |
| 0.38 | 0.38 | 0.16 | 0.16 | 0.05 | 0.00 | 0.00 | | 0.35 | | 0.15 | 0.15 | 0.05 | 0.00 | 0.00 | 0.00 |
| 0.13 | 0.13 | 0.00 | 0.03 | 0.10 | 0.00 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.10 | 0.00 | 0.00 | 00'0 |
| 0.03 | 0.03 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 1 0.01 | 0.02 | 0.00 | 0.00 | 90'0 |
| 7 55.27 | 1 54.36 | 0 17.19 | 3.80 | 9 33.37 | 3 0.91 | 0.00 | 5 0.91 | 8 52.47 | 2 51.62 | 3 16.89 | 3.54 | 3 31.19 | 5 0.85 | 0.00 | 5 0.85 |
| 4 38.27 | 2 38.21 | 31.70 | 3 4.32 | 1 2.19 | 3 0.06 | 0.00 | 3 0.06 | 5 35.78 | 2 35.72 | 8 29.73 | 3.96 | 3 2.03 | 3 0.06 | 0.00 | 3 0.06 |
| 11.14 | 6.42 | 4.98 | 0.33 | 1.11 | 4.73 | 4.70 | 0.03 | 17.85 | 6.02 | 4.68 | 0.31 | 1.03 | 11.83 | 11.80 | 0.03 |
| Time Silce 11/16/2009-12/31/2009 Active Days: 40 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips | Time Slice 1/1/2010-2/27/2010 Active Days: 50 | Building 08/01/2009-04/15/2010 | Building Off Road Diesel | Building Vendor Trips | Building Worker Trips | Coating 11/15/2009-04/30/2010 | Architectural Coating | Coating Worker Trips |

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| 11 | | | | | | | | | | | |
|---|-------|------------------|-------|-------|------|------|-------------|------|------|------|----------|
| Time Slice 3/1/2010-4/15/2010 Active Days: 40 | 21.38 | 55.06 | 70.22 | 0.03 | 0.16 | 0.51 | <u>99'0</u> | 90.0 | 0.46 | 0.52 | 8.580.81 |
| Asphalt 03/01/2010-05/31/2010 | 3.53 | 19.29 | 17.75 | 0.01 | 0.03 | 0.15 | 0.18 | 0.01 | 0.14 | 0.15 | 2,340.36 |
| Paving Off-Gas | 0.05 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.04 | 0.59 | 0.19 | 00.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 81.73 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Building 08/01/2009-04/15/2010 | 6.02 | 35.72 | 51.62 | 0.03 | 0.13 | 0.35 | 0.48 | 0.05 | 0.32 | 0.37 | 6,185.48 |
| Building Off Road Diesel | 4.68 | 29.73 | 16.89 | 00.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.14 | 0.14 | 3,404.04 |
| Building Vendor Trips | 0.31 | 3.96 | 3.54 | 0.01 | 0.03 | 0.15 | 0.18 | 0.01 | 0.14 | 0.15 | 755.14 |
| Building Worker Trips | 1.03 | 2.03 | 31,19 | 0.02 | 0.10 | 0.05 | 0.16 | 0.04 | 0.05 | 90.0 | 2,026.30 |
| Coating 11/15/2009-04/30/2010 | 11.83 | 90.0 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.97 |
| Architectural Coating | 11.80 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.03 | 90.0 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 00.0 | 54.97 |
| Time Slice 4/16/2010-4/30/2010 Active Days: 13 | 15.36 | 19.34 | 18.59 | 0.01 | 0.03 | 0.16 | 0.18 | 0.01 | 0.14 | 0.15 | 2,395.33 |
| Asphalt 03/01/2010-05/31/2010 | 3.53 | 19.29 | 17.75 | 0.01 | 0.03 | 0.15 | 0.18 | 0.01 | 0.14 | 0.15 | 2,340.36 |
| Paving Off-Gas | 0.05 | 00:00 | 00:00 | 00:00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving Off Road Diesel | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| Paving On Road Diesel | 0.04 | 0.59 | 0.19 | 00.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 81.73 |
| Paving Worker Trips | 0.23 | 0.45 | 6.92 | 00.0 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |
| Coating 11/15/2009-04/30/2010 | 11.83 | 90.0 | 0.85 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.97 |
| Architectural Coating | 11.80 | 0.00 | 0.00 | 00.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coating Worker Trips | 0.03 | 90:0 | 0.85 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54.97 |
| | | | | | | | | | | | |

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| Time Slice 5/1/2010-5/31/2010 | 3.53 | 19.29 | 17.75 | 0.01 | 0.03 | 0.15 | 0.18 | 0.01 | 0.14 | 0.15 | 2,340.36 |
|---|------|-------|-------|------|------|------|------|------|------|------|----------|
| ctive Days: 26 Asphalt 03/01/2010-05/31/2010 | 3.53 | 19.29 | 17.75 | 0.01 | 0.03 | 0.15 | 0.18 | 0.01 | 0.14 | 0.15 | 2,340.36 |
| | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3.22 | 18.25 | 10.63 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.11 | 0.11 | 1,809.09 |
| | 0.04 | 0.59 | 0.19 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 81.73 |
| | 0.23 | 0.45 | 6.92 | 0.00 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.02 | 449.55 |

Construction Related Mitigation Measures

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

For Graders, the Use Aquaous 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:

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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 Fitter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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

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

PM10: 84% PM25: 84%

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

PM10: 55% PM25: 55%

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

PM10; 69% PM25; 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

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

NOX: 15% PM10: 50% PM25: 50% For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

10/14/2008 12:38:47 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%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by PM10: 85% PM25: 85%

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

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

PM10: 85% PM25: 85%

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

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

ROG: 10%

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

ROG: 10%

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | NOX | 8 | <u>\$00</u> | PM10 | PM2.5 | <u>CO2</u> |
|---|--------------------|---------------|------|-------------|------|-------|------------|
| Natural Gas | 60.0 | 1.19 | 1.00 | 00.0 | 0.00 | 0.00 | 1,429.70 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 00.00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.72 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.93 | 1.21 | 2.55 | 0.00 | 0.01 | 0.01 | 1,432.51 |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | ımer Pounds Per Da | ay, Mitigated | | | | | |
| Source | ROG | XON | 3 | 202 | PM10 | PM2.5 | <u>CO2</u> |
| Natural Gas | 0.07 | 96.0 | 0.80 | 0.00 | 0.00 | 0.00 | 1,143.76 |

| PM2.5 | 0.95 0.80 | sions | 0.12 0.02 1.55 0.00 0.01 0.01 2.81 | 0.00 | 0.72 | |
|--------|----------------|------------------------------|------------------------------------|----------------------|---------------------------|-----------------------------|
| Source | Natural Gas 0. | Hearth - No Summer Emissions | Landscape 0. | Consumer Products 0. | Architectural Coatings 0. | TOTALS (lbs/day, mitigated) |

Area Source Mitigation Measures Selected

| Percent Reduction | 00 00 |
|------------------------|---|
| Mitigation Description | Commercial Ingresse French Efficiency Revond Title 24 |

20.00

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Area Source Changes to Defaults

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

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

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

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | NOX | 00 | 202 | PM10 | PM25 | C02 | |
|-------------------------------|--------|--------|----------|------|--------|-------|------------|--|
| Regnl shop. center | 263.60 | 348.96 | 3,364.48 | 1.87 | 336.97 | 65.59 | 191,606.12 | |
| TOTALS (lbs/day, unmitigated) | 263.60 | 348.96 | 3,364.48 | 1.87 | 336.97 | 65.59 | 191,606.12 | |

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Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

| <u>Source</u> | ROG | NOX | CO | 502 | PM10 | PM25 | CO2 |
|-----------------------------|--------|--------|----------|------|--------|-------|------------|
| kegnl shop. center | 263.60 | 348.96 | 3,364.48 | | 336.97 | 65.59 | 191,606.12 |
| rOTALS (lbs/day, mitigated) | 263.60 | 348.96 | 3,364.48 | 1.87 | 336.97 | 62'29 | 191,606.12 |

Operational Mitigation Options Selected

Residential Mitigation Measures

Nonresidential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 0%

Inputs Selected:

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

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year. 2010 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

| Total Trips Total VMT | 8,177.64 194,971.23 | 8,177.64 194,971.23 |
|-----------------------|---------------------|---------------------|
| No. Units | 123.25 | |
| Unit Type | 1000 sq ft | |
| Trip Rate | 66.35 | |
| Acreage | | |
| and Use Type | Regnl shop. center | |

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| | | Vehicle Fleet Mix | t Mix | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|--------------|----------|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel |
| Light Auto | | 32.7 | 2.4 | | 0.79 | 9.0 |
| Light Truck < 3750 lbs | | 24.5 | 4.1 | | 86.5 | 9.4 |
| Light Truck 3751-5750 lbs | | 19.6 | 1.5 | | 98.0 | 0.5 |
| Med Truck 5751-8500 lbs | | 9.1 | 1.1 | | 87.8 | 1.1 |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 64 .0 | 36.0 |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 41.7 | 58.3 |
| Med-Heavy Truck 14,001-33,000 lbs | | 6.0 | 11.1 | | 22.2 | 66.7 |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 6.0 | 0.0 | | 0.0 | 100.0 |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 |
| Motorcycle | | 6.4 | 67.2 | | 32.8 | 0.0 |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 |
| Motor Home | | 2.0 | 5.0 | | 85.0 | 10.0 |
| | | Travel Conditions | litions | | | |
| | | Residential | | | Commercial | |
| | Home-Work | Home-Shop | Home-Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | |

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Travel Conditions

Residential

Customer Non-Work Commute Home-Other Home-Shop Home-Work

Commercial

% of Trips - Commercial (by land use)

97.0

0.

2.0

Operational Changes to Defaults

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

Regnl shop. center

Home-based work rural trip length changed from 16.8 miles to 28 miles

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

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

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

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

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

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

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

Project Name: Ione Alt D - Cumulative Operation

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

AREA SOURCE EMISSION ESTIMATES

| | ROG | NOx | 임 | <u>S02</u> | PM10 | PM2.5 | <u>CO2</u> |
|--|-------|-------|--------|-------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 0.16 | 0.22 | 0.32 | 0.00 | 0.00 | 0.00 | 261.17 |
| TOTALS (tons/year, mitigated) | 0.15 | 0.17 | 0.29 | 0.00 | 0.00 | 0.00 | 208.99 |
| Percent Reduction | 6.25 | 22.73 | 9.37 | NaN | NaN | NaN | 19.98 |
| | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | NOX | 00 | <u>\$05</u> | PM10 | PM2.5 | 200 |
| TOTALS (tons/year, unmitigated) | 16.68 | 13.20 | 149.82 | 0.33 | 60.84 | 11.39 | 33,707.97 |
| TOTALS (tons/year, mitigated) | 16.68 | 13.20 | 149.82 | 0.33 | 60.84 | 11.39 | 33,707.97 |
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

| | ROG | NOX | 잉 | <u>807</u> | PM10 | PM2.5 | <u>CO2</u> |
|---------------------------------|-------|-------|--------|------------|-------|-------|------------|
| TOTALS (tons/year, unmitigated) | 16.84 | 13.42 | 150.14 | 0.33 | 60.84 | 11.39 | 33,969.14 |
| TOTALS (tons/year, mitigated) | 16.83 | 13.37 | 150.11 | 0.33 | 60.84 | 11.39 | 33,916.96 |
| Percent Reduction | 90.0 | 0.37 | 0.05 | 0.00 | 0.00 | 0.00 | 0.15 |

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Urbemis 2007 Version 9.2.4

Oldering 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

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

Project Name: Ione Alt D - Cumulative Operation

Project Location: Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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Summary Report:

AREA SOURCE EMISSION ESTIMATES

| | ROG | Ň | 잉 | <u>\$05</u> | PM10 | PM2.5 | <u>002</u> |
|---|---------|-------|--------|-------------|--------|-------|------------|
| TOTALS (lbs/day, unmitigated) | 0.93 | 1.21 | 2.55 | 0.00 | 0.01 | 0.01 | 1,432.51 |
| TOTALS (lbs/day, mitigated) | 0.91 | 76.0 | 2.35 | 0.00 | 0.01 | 0.01 | 1,146.57 |
| Percent Reduction | 2.15 | 19.83 | 7.84 | NaN | 0.00 | 0.00 | 19.96 |
| OPERATIONAL (VEHICLE) EMISSION ESTIMATES | | | | | | | |
| | ROG | XON | 잉 | 203 | PM10 | PM2.5 | <u>CO2</u> |
| TOTALS (lbs/day, unmitigated) | 81.04 | 61.46 | 806.24 | 1.86 | 333.36 | 62.39 | 193,398.57 |
| TOTALS (lbs/day, mitigated) | 81.04 | 61.46 | 806.24 | 1.86 | 333.36 | 62.39 | 193,398.57 |
| Percent Reduction | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES | TIMATES | | | | | | |
| | ROG | XON | 잉 | <u>SO2</u> | PM10 | PM2.5 | 000 |
| TOTALS (lbs/day, unmitigated) | 81.97 | 62.67 | 808.79 | 1.86 | 333.37 | 62.40 | 194,831.08 |
| TOTALS (lbs/day, mitigated) | 81.95 | 62.43 | 808.59 | 1.86 | 333.37 | 62.40 | 194,545.14 |
| Percent Reduction | 0.02 | 0.38 | 0.02 | 00.00 | 0.00 | 00:00 | 0.15 |

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| Source | ROG | XON | ଖ | <u>SO2</u> | PM10 | PM2.5 | <u>C03</u> |
|---|-------------------|---------------|------|------------|------|-------|------------|
| Natural Gas | 60.0 | 1.19 | 1.00 | 0.00 | 0.00 | 0.00 | 1,429.70 |
| Hearth - No Summer Emissions | | | | | | | |
| Landscape | 0.12 | 0.02 | 1.55 | 0.00 | 0.01 | 0.01 | 2.81 |
| Consumer Products | 0.00 | | | | | | |
| Architectural Coatings | 0.72 | | | | | | |
| TOTALS (lbs/day, unmitigated) | 0.93 | 1.21 | 2.55 | 0.00 | 0.01 | 0.01 | 1,432.51 |
| Area Source Mitigated Detail Report: | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | nmer Pounds Per D | ay, Mitigated | | | | | |
| Source | ROG | NOX | 임 | <u>802</u> | PM10 | PM2.5 | CO2 |

1,143.76

0.00

0.00

0.00

0.80

0.95

0.07

Hearth - No Summer Emissions

Landscape

Natural Gas

2.81

0.01

0.01

0.00

1.55

0.02

0.00

1,146.57

0.01

0.01

0.0

2.35

0.97

0.91

TOTALS (lbs/day, mitigated)

Consumer Products Architectural Coatings

Area Source Changes to Defaults

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

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| PM25 CO2 | 62.39 193,398.57 | 62.39 193,398.57 | | | PM25 CO2 | 62.39 193,398.57 | 62 39 193 398 57 |
|----------|--------------------|-------------------------------|--------------------------------------|---|----------|--------------------|-----------------------------|
| PM10 | 333.36 | 333.36 | | | PM10 | 333.36 | 333.36 |
| 802 | 1.86 | 1.86 | | | 802 | 1.86 | 1.86 |
| 9 | 806.24 | 806.24 | | | 8 | 806.24 | 806.24 |
| XON | 61.46 | 61.46 | | er Day, Mitigated | NOX | 61.46 | 61.46 |
| ROG | 81.04 | 81.04 | | Summer Pounds P | ROG | 81.04 | 81.04 |
| Source | Regnl shop, center | TOTALS (lbs/day, unmitigated) | Operational Mitigated Detail Report: | OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated | Source | Regnl shop. center | TOTALS (lbs/day, mitigated) |

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 85 Season: Summer

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

| | Sumi | Summary of Land Uses | es S | | | |
|--------------------|--------------|----------------------|--------------|-----------|-------------|------------|
| Land Use Type | Acreage | Acreage Trip Rate | Unit Type | No. Units | Total Trips | Total VMT |
| Regnl shop. center | | 66.35 | 1000 sq ft | 123.25 | 8,177.64 | 194,971.23 |
| | | | | | 8,177.64 | 194,971.23 |
| | | Vehicle Fleet Mix | ξ | | | |
| Vehicle Type | Percent Type | Туре | Non-Catalyst | st | Catalyst | Diesel |
| Light Auto | | 32.8 | 0.0 | 0: | 100.0 | 0.0 |

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| | | Vehicle Fleet Mix | at Mix | | | | |
|-------------------------------------|-----------|-------------------|--------------|---------|------------|----------|--|
| Vehicle Type | | Percent Type | Non-Catalyst | | Catalyst | Diesel | |
| Light Truck < 3750 lbs | | 24.4 | 0.0 | | 99.2 | 8:0 | |
| Light Truck 3751-5750 lbs | | 19.8 | 0.0 | | 100.0 | 0.0 | |
| Med Truck 5751-8500 lbs | | 9.2 | 0.0 | | 100.0 | 0.0 | |
| Lite-Heavy Truck 8501-10,000 lbs | | 2.5 | 0.0 | | 80.0 | 20.0 | |
| Lite-Heavy Truck 10,001-14,000 lbs | | 1.2 | 0.0 | | 58.3 | 41.7 | |
| Med-Heavy Truck 14,001-33,000 lbs | | 6:0 | 0.0 | | 22.2 | 8.77 | |
| Heavy-Heavy Truck 33,001-60,000 lbs | | 0.7 | 0.0 | | 0.0 | 100.0 | |
| Other Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Urban Bus | | 0.0 | 0.0 | | 0.0 | 0.0 | |
| Motorcycle | | 6.3 | 33.3 | | 66.7 | 0.0 | |
| School Bus | | 0.1 | 0.0 | | 0.0 | 100.0 | |
| Motor Home | | 2.0 | 0.0 | | 0.06 | 10.0 | |
| | | Travel Conditions | ditions | | | | |
| | | Residential | | | Commercial | | |
| | Home-Work | Ноте-Shop | Home-Other | Commute | Non-Work | Customer | |
| Urban Trip Length (miles) | 10.8 | 7.3 | 7.5 | 9.5 | 7.4 | 7.4 | |
| Rural Trip Length (miles) | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | |
| Trip speeds (mph) | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | |
| % of Trips - Residential | 32.9 | 18.0 | 49.1 | | | | |

% of Trips - Commercial (by land use)

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Travel Conditions

Residential Commercial Commercial

Customer Non-Work Commute Home-Other Home-Shop Home-Work

97.0

0.

2.0

Regnl shop, center