

## **Appendix B**

### Air Quality Data



Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: CSUCI Facilities Projects SEIR

Project Location: Ventura County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

|                                   | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|-----------------------------------|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| 2009 TOTALS (lbs/day unmitigated) | 35.65      | 314.09     | 301.13    | 0.31       | 765.84           | 14.41               | 780.25      | 160.04            | 13.26                | 173.30       | 35,636.42  |
| 2009 TOTALS (lbs/day mitigated)   | 35.65      | 314.09     | 301.13    | 0.31       | 433.44           | 14.41               | 447.86      | 90.62             | 13.26                | 103.88       | 35,636.42  |

AREA SOURCE EMISSION ESTIMATES

|                               | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) |            |            |           |            |             |              |            |

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

|                               | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) |            |            |           |            |             |              |            |

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

|                               | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------|------------|------------|-----------|------------|-------------|--------------|------------|
| TOTALS (lbs/day, unmitigated) |            |            |           |            |             |              |            |

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Construction Unmitigated Detail Report:

## CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

|                                    | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|------------------------------------|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| Time Slice 6/8/2009-6/26/2009      | 21.82      | 252.13     | 103.62    | 0.19       | 765.72           | 10.85               | 776.57      | 160.00            | 9.98                 | 169.98       | 29,229.02  |
| Active Days: 15                    |            |            |           |            |                  |                     |             |                   |                      |              |            |
| Fine Grading 06/08/2009-07/10/2009 | 21.82      | 252.13     | 103.62    | 0.19       | 765.72           | 10.85               | 776.57      | 160.00            | 9.98                 | 169.98       | 29,229.02  |
| Fine Grading Dust                  | 0.00       | 0.00       | 0.00      | 0.00       | 765.00           | 0.00                | 765.00      | 159.76            | 0.00                 | 159.76       | 0.00       |
| Fine Grading Off Road Diesel       | 11.80      | 101.10     | 49.35     | 0.00       | 0.00             | 4.97                | 4.97        | 0.00              | 4.57                 | 4.57         | 8,842.87   |
| Fine Grading On Road Diesel        | 9.94       | 150.89     | 51.89     | 0.19       | 0.70             | 5.88                | 6.59        | 0.23              | 5.41                 | 5.64         | 20,130.04  |
| Fine Grading Worker Trips          | 0.08       | 0.13       | 2.38      | 0.00       | 0.01             | 0.01                | 0.02        | 0.00              | 0.00                 | 0.01         | 256.11     |
| Time Slice 6/29/2009-7/3/2009      | 24.03      | 271.08     | 112.90    | 0.19       | 765.72           | 11.79               | 777.51      | 160.00            | 10.84                | 170.84       | 31,046.10  |
| Active Days: 5                     |            |            |           |            |                  |                     |             |                   |                      |              |            |
| Fine Grading 06/08/2009-07/10/2009 | 21.82      | 252.13     | 103.62    | 0.19       | 765.72           | 10.85               | 776.57      | 160.00            | 9.98                 | 169.98       | 29,229.02  |
| Fine Grading Dust                  | 0.00       | 0.00       | 0.00      | 0.00       | 765.00           | 0.00                | 765.00      | 159.76            | 0.00                 | 159.76       | 0.00       |
| Fine Grading Off Road Diesel       | 11.80      | 101.10     | 49.35     | 0.00       | 0.00             | 4.97                | 4.97        | 0.00              | 4.57                 | 4.57         | 8,842.87   |
| Fine Grading On Road Diesel        | 9.94       | 150.89     | 51.89     | 0.19       | 0.70             | 5.88                | 6.59        | 0.23              | 5.41                 | 5.64         | 20,130.04  |
| Fine Grading Worker Trips          | 0.08       | 0.13       | 2.38      | 0.00       | 0.01             | 0.01                | 0.02        | 0.00              | 0.00                 | 0.01         | 256.11     |
| Trenching 06/29/2009-07/06/2009    | 2.21       | 18.95      | 9.28      | 0.00       | 0.00             | 0.93                | 0.94        | 0.00              | 0.86                 | 0.86         | 1,817.08   |
| Trenching Off Road Diesel          | 2.18       | 18.90      | 8.32      | 0.00       | 0.00             | 0.93                | 0.93        | 0.00              | 0.86                 | 0.86         | 1,714.64   |
| Trenching Worker Trips             | 0.03       | 0.05       | 0.95      | 0.00       | 0.00             | 0.00                | 0.01        | 0.00              | 0.00                 | 0.00         | 102.44     |

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|   |              |               |        |      |               |              |               |               |              |               |                  |
|---|--------------|---------------|--------|------|---------------|--------------|---------------|---------------|--------------|---------------|------------------|
| Time Slice 7/6/2009-7/6/2009 Active Days: 1 | <u>35.65</u> | <u>314.09</u> | 132.53 | 0.22 | <u>765.84</u> | <u>14.41</u> | <u>780.25</u> | <u>160.04</u> | <u>13.26</u> | <u>173.30</u> | <u>35,636.42</u> |
| Asphalt 07/06/2009-07/24/2009               | 11.61        | 43.01         | 19.63  | 0.03 | 0.11          | 2.63         | 2.74          | 0.04          | 2.42         | 2.45          | 4,590.32         |
| Paving Off-Gas                              | 6.68         | 0.00          | 0.00   | 0.00 | 0.00          | 0.00         | 0.00          | 0.00          | 0.00         | 0.00          | 0.00             |
| Paving Off Road Diesel                      | 3.39         | 20.13         | 10.59  | 0.00 | 0.00          | 1.74         | 1.74          | 0.00          | 1.60         | 1.60          | 1,418.81         |
| Paving On Road Diesel                       | 1.50         | 22.81         | 7.85   | 0.03 | 0.11          | 0.89         | 1.00          | 0.03          | 0.82         | 0.85          | 3,043.45         |
| Paving Worker Trips                         | 0.04         | 0.07          | 1.19   | 0.00 | 0.01          | 0.00         | 0.01          | 0.00          | 0.00         | 0.00          | 128.06           |
| Fine Grading 06/08/2009-07/10/2009          | 21.82        | 252.13        | 103.62 | 0.19 | 765.72        | 10.85        | 776.57        | 160.00        | 9.98         | 169.98        | 29,229.02        |
| Fine Grading Dust                           | 0.00         | 0.00          | 0.00   | 0.00 | 765.00        | 0.00         | 765.00        | 159.76        | 0.00         | 159.76        | 0.00             |
| Fine Grading Off Road Diesel                | 11.80        | 101.10        | 49.35  | 0.00 | 0.00          | 4.97         | 4.97          | 0.00          | 4.57         | 4.57          | 8,842.87         |
| Fine Grading On Road Diesel                 | 9.94         | 150.89        | 51.89  | 0.19 | 0.70          | 5.88         | 6.59          | 0.23          | 5.41         | 5.64          | 20,130.04        |
| Fine Grading Worker Trips                   | 0.08         | 0.13          | 2.38   | 0.00 | 0.01          | 0.01         | 0.02          | 0.00          | 0.00         | 0.01          | 256.11           |
| Trenching 06/29/2009-07/06/2009             | 2.21         | 18.95         | 9.28   | 0.00 | 0.00          | 0.93         | 0.94          | 0.00          | 0.86         | 0.86          | 1,817.08         |
| Trenching Off Road Diesel                   | 2.18         | 18.90         | 8.32   | 0.00 | 0.00          | 0.93         | 0.93          | 0.00          | 0.86         | 0.86          | 1,714.64         |
| Trenching Worker Trips                      | 0.03         | 0.05          | 0.95   | 0.00 | 0.00          | 0.00         | 0.01          | 0.00          | 0.00         | 0.00          | 102.44           |

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|                                    |       |        |        |      |        |       |        |        |       |        |           |
|------------------------------------|-------|--------|--------|------|--------|-------|--------|--------|-------|--------|-----------|
| Time Slice 7/7/2009-7/10/2009      | 33.43 | 295.14 | 123.25 | 0.22 | 765.83 | 13.48 | 779.31 | 160.04 | 12.40 | 172.44 | 33,819.34 |
| Active Days: 4                     |       |        |        |      |        |       |        |        |       |        |           |
| Asphalt 07/06/2009-07/24/2009      | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04   | 2.42  | 2.45   | 4,590.32  |
| Paving Off-Gas                     | 6.68  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00      |
| Paving Off Road Diesel             | 3.39  | 20.13  | 10.59  | 0.00 | 0.00   | 1.74  | 1.74   | 0.00   | 1.60  | 1.60   | 1,418.81  |
| Paving On Road Diesel              | 1.50  | 22.81  | 7.85   | 0.03 | 0.11   | 0.89  | 1.00   | 0.03   | 0.82  | 0.85   | 3,043.45  |
| Paving Worker Trips                | 0.04  | 0.07   | 1.19   | 0.00 | 0.01   | 0.00  | 0.01   | 0.00   | 0.00  | 0.00   | 128.06    |
| Fine Grading 06/08/2009-07/10/2009 | 21.82 | 252.13 | 103.62 | 0.19 | 765.72 | 10.85 | 776.57 | 160.00 | 9.98  | 169.98 | 29,229.02 |
| Fine Grading Dust                  | 0.00  | 0.00   | 0.00   | 0.00 | 765.00 | 0.00  | 765.00 | 159.76 | 0.00  | 159.76 | 0.00      |
| Fine Grading Off Road Diesel       | 11.80 | 101.10 | 49.35  | 0.00 | 0.00   | 4.97  | 4.97   | 0.00   | 4.57  | 4.57   | 8,842.87  |
| Fine Grading On Road Diesel        | 9.94  | 150.89 | 51.89  | 0.19 | 0.70   | 5.88  | 6.59   | 0.23   | 5.41  | 5.64   | 20,130.04 |
| Fine Grading Worker Trips          | 0.08  | 0.13   | 2.38   | 0.00 | 0.01   | 0.01  | 0.02   | 0.00   | 0.00  | 0.01   | 256.11    |
| Time Slice 7/13/2009-7/17/2009     | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04   | 2.42  | 2.45   | 4,590.32  |
| Active Days: 5                     |       |        |        |      |        |       |        |        |       |        |           |
| Asphalt 07/06/2009-07/24/2009      | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04   | 2.42  | 2.45   | 4,590.32  |
| Paving Off-Gas                     | 6.68  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00      |
| Paving Off Road Diesel             | 3.39  | 20.13  | 10.59  | 0.00 | 0.00   | 1.74  | 1.74   | 0.00   | 1.60  | 1.60   | 1,418.81  |
| Paving On Road Diesel              | 1.50  | 22.81  | 7.85   | 0.03 | 0.11   | 0.89  | 1.00   | 0.03   | 0.82  | 0.85   | 3,043.45  |
| Paving Worker Trips                | 0.04  | 0.07   | 1.19   | 0.00 | 0.01   | 0.00  | 0.01   | 0.00   | 0.00  | 0.00   | 128.06    |

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|                                |       |       |               |             |      |      |      |      |      |      |           |
|--------------------------------|-------|-------|---------------|-------------|------|------|------|------|------|------|-----------|
| Time Slice 7/20/2009-7/24/2009 | 24.55 | 82.47 | <u>301.13</u> | <u>0.31</u> | 1.51 | 5.04 | 6.55 | 0.54 | 4.58 | 5.12 | 35,525.39 |
| Active Days: 5                 |       |       |               |             |      |      |      |      |      |      |           |
| Asphalt 07/06/2009-07/24/2009  | 11.61 | 43.01 | 19.63         | 0.03        | 0.11 | 2.63 | 2.74 | 0.04 | 2.42 | 2.45 | 4,590.32  |
| Paving Off-Gas                 | 6.68  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Paving Off Road Diesel         | 3.39  | 20.13 | 10.59         | 0.00        | 0.00 | 1.74 | 1.74 | 0.00 | 1.60 | 1.60 | 1,418.81  |
| Paving On Road Diesel          | 1.50  | 22.81 | 7.85          | 0.03        | 0.11 | 0.89 | 1.00 | 0.03 | 0.82 | 0.85 | 3,043.45  |
| Paving Worker Trips            | 0.04  | 0.07  | 1.19          | 0.00        | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 128.06    |
| Building 07/20/2009-08/07/2009 | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Building Off Road Diesel       | 4.37  | 24.71 | 14.63         | 0.00        | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,259.28  |
| Building Vendor Trips          | 0.00  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Building Worker Trips          | 8.57  | 14.74 | 266.86        | 0.28        | 1.40 | 0.60 | 2.00 | 0.50 | 0.49 | 1.00 | 28,675.79 |
| Time Slice 7/27/2009-8/7/2009  | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Active Days: 10                |       |       |               |             |      |      |      |      |      |      |           |
| Building 07/20/2009-08/07/2009 | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Building Off Road Diesel       | 4.37  | 24.71 | 14.63         | 0.00        | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,259.28  |
| Building Vendor Trips          | 0.00  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Building Worker Trips          | 8.57  | 14.74 | 266.86        | 0.28        | 1.40 | 0.60 | 2.00 | 0.50 | 0.49 | 1.00 | 28,675.79 |

Phase Assumptions

Phase: Fine Grading 6/8/2009 - 7/10/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 153

Maximum Daily Acreage Disturbed: 38.25

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 5000

Off-Road Equipment:

1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

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

Phase: Trenching 6/29/2009 - 7/6/2009 - Default Architectural Coating Description

Off-Road Equipment:

- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 7/6/2009 - 7/24/2009 - Default Paving Description

Acres to be Paved: 38.25

Off-Road Equipment:

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

Phase: Building Construction 7/20/2009 - 8/7/2009 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Construction Mitigated Detail Report:

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## CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

|  | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|--|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| Time Slice 6/8/2009-6/26/2009<br>Active Days: 15 | 21.82      | 252.13     | 103.62    | 0.19       | 433.32           | 10.85               | 444.18      | 90.58             | 9.98                 | 100.57       | 29,229.02  |
| Fine Grading 06/08/2009-<br>07/10/2009           | 21.82      | 252.13     | 103.62    | 0.19       | 433.32           | 10.85               | 444.18      | 90.58             | 9.98                 | 100.57       | 29,229.02  |
| Fine Grading Dust                                | 0.00       | 0.00       | 0.00      | 0.00       | 432.61           | 0.00                | 432.61      | 90.35             | 0.00                 | 90.35        | 0.00       |
| Fine Grading Off Road Diesel                     | 11.80      | 101.10     | 49.35     | 0.00       | 0.00             | 4.97                | 4.97        | 0.00              | 4.57                 | 4.57         | 8,842.87   |
| Fine Grading On Road Diesel                      | 9.94       | 150.89     | 51.89     | 0.19       | 0.70             | 5.88                | 6.59        | 0.23              | 5.41                 | 5.64         | 20,130.04  |
| Fine Grading Worker Trips                        | 0.08       | 0.13       | 2.38      | 0.00       | 0.01             | 0.01                | 0.02        | 0.00              | 0.00                 | 0.01         | 256.11     |
| Time Slice 6/29/2009-7/3/2009<br>Active Days: 5  | 24.03      | 271.08     | 112.90    | 0.19       | 433.33           | 11.79               | 445.12      | 90.58             | 10.84                | 101.43       | 31,046.10  |
| Fine Grading 06/08/2009-<br>07/10/2009           | 21.82      | 252.13     | 103.62    | 0.19       | 433.32           | 10.85               | 444.18      | 90.58             | 9.98                 | 100.57       | 29,229.02  |
| Fine Grading Dust                                | 0.00       | 0.00       | 0.00      | 0.00       | 432.61           | 0.00                | 432.61      | 90.35             | 0.00                 | 90.35        | 0.00       |
| Fine Grading Off Road Diesel                     | 11.80      | 101.10     | 49.35     | 0.00       | 0.00             | 4.97                | 4.97        | 0.00              | 4.57                 | 4.57         | 8,842.87   |
| Fine Grading On Road Diesel                      | 9.94       | 150.89     | 51.89     | 0.19       | 0.70             | 5.88                | 6.59        | 0.23              | 5.41                 | 5.64         | 20,130.04  |
| Fine Grading Worker Trips                        | 0.08       | 0.13       | 2.38      | 0.00       | 0.01             | 0.01                | 0.02        | 0.00              | 0.00                 | 0.01         | 256.11     |
| Trenching 06/29/2009-07/06/2009                  | 2.21       | 18.95      | 9.28      | 0.00       | 0.00             | 0.93                | 0.94        | 0.00              | 0.86                 | 0.86         | 1,817.08   |
| Trenching Off Road Diesel                        | 2.18       | 18.90      | 8.32      | 0.00       | 0.00             | 0.93                | 0.93        | 0.00              | 0.86                 | 0.86         | 1,714.64   |
| Trenching Worker Trips                           | 0.03       | 0.05       | 0.95      | 0.00       | 0.00             | 0.00                | 0.01        | 0.00              | 0.00                 | 0.00         | 102.44     |

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|   |              |               |        |      |               |              |               |              |              |               |                  |
|---|--------------|---------------|--------|------|---------------|--------------|---------------|--------------|--------------|---------------|------------------|
| Time Slice 7/6/2009-7/6/2009 Active Days: 1 | <u>35.65</u> | <u>314.09</u> | 132.53 | 0.22 | <u>433.44</u> | <u>14.41</u> | <u>447.86</u> | <u>90.62</u> | <u>13.26</u> | <u>103.88</u> | <u>35,636.42</u> |
| Asphalt 07/06/2009-07/24/2009               | 11.61        | 43.01         | 19.63  | 0.03 | 0.11          | 2.63         | 2.74          | 0.04         | 2.42         | 2.45          | 4,590.32         |
| Paving Off-Gas                              | 6.68         | 0.00          | 0.00   | 0.00 | 0.00          | 0.00         | 0.00          | 0.00         | 0.00         | 0.00          | 0.00             |
| Paving Off Road Diesel                      | 3.39         | 20.13         | 10.59  | 0.00 | 0.00          | 1.74         | 1.74          | 0.00         | 1.60         | 1.60          | 1,418.81         |
| Paving On Road Diesel                       | 1.50         | 22.81         | 7.85   | 0.03 | 0.11          | 0.89         | 1.00          | 0.03         | 0.82         | 0.85          | 3,043.45         |
| Paving Worker Trips                         | 0.04         | 0.07          | 1.19   | 0.00 | 0.01          | 0.00         | 0.01          | 0.00         | 0.00         | 0.00          | 128.06           |
| Fine Grading 06/08/2009-07/10/2009          | 21.82        | 252.13        | 103.62 | 0.19 | 433.32        | 10.85        | 444.18        | 90.58        | 9.98         | 100.57        | 29,229.02        |
| Fine Grading Dust                           | 0.00         | 0.00          | 0.00   | 0.00 | 432.61        | 0.00         | 432.61        | 90.35        | 0.00         | 90.35         | 0.00             |
| Fine Grading Off Road Diesel                | 11.80        | 101.10        | 49.35  | 0.00 | 0.00          | 4.97         | 4.97          | 0.00         | 4.57         | 4.57          | 8,842.87         |
| Fine Grading On Road Diesel                 | 9.94         | 150.89        | 51.89  | 0.19 | 0.70          | 5.88         | 6.59          | 0.23         | 5.41         | 5.64          | 20,130.04        |
| Fine Grading Worker Trips                   | 0.08         | 0.13          | 2.38   | 0.00 | 0.01          | 0.01         | 0.02          | 0.00         | 0.00         | 0.01          | 256.11           |
| Trenching 06/29/2009-07/06/2009             | 2.21         | 18.95         | 9.28   | 0.00 | 0.00          | 0.93         | 0.94          | 0.00         | 0.86         | 0.86          | 1,817.08         |
| Trenching Off Road Diesel                   | 2.18         | 18.90         | 8.32   | 0.00 | 0.00          | 0.93         | 0.93          | 0.00         | 0.86         | 0.86          | 1,714.64         |
| Trenching Worker Trips                      | 0.03         | 0.05          | 0.95   | 0.00 | 0.00          | 0.00         | 0.01          | 0.00         | 0.00         | 0.00          | 102.44           |

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|                                    |       |        |        |      |        |       |        |       |       |        |           |
|------------------------------------|-------|--------|--------|------|--------|-------|--------|-------|-------|--------|-----------|
| Time Slice 7/7/2009-7/10/2009      | 33.43 | 295.14 | 123.25 | 0.22 | 433.44 | 13.48 | 446.92 | 90.62 | 12.40 | 103.02 | 33,819.34 |
| Active Days: 4                     |       |        |        |      |        |       |        |       |       |        |           |
| Asphalt 07/06/2009-07/24/2009      | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04  | 2.42  | 2.45   | 4,590.32  |
| Paving Off-Gas                     | 6.68  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00      |
| Paving Off Road Diesel             | 3.39  | 20.13  | 10.59  | 0.00 | 0.00   | 1.74  | 1.74   | 0.00  | 1.60  | 1.60   | 1,418.81  |
| Paving On Road Diesel              | 1.50  | 22.81  | 7.85   | 0.03 | 0.11   | 0.89  | 1.00   | 0.03  | 0.82  | 0.85   | 3,043.45  |
| Paving Worker Trips                | 0.04  | 0.07   | 1.19   | 0.00 | 0.01   | 0.00  | 0.01   | 0.00  | 0.00  | 0.00   | 128.06    |
| Fine Grading 06/08/2009-07/10/2009 | 21.82 | 252.13 | 103.62 | 0.19 | 433.32 | 10.85 | 444.18 | 90.58 | 9.98  | 100.57 | 29,229.02 |
| Fine Grading Dust                  | 0.00  | 0.00   | 0.00   | 0.00 | 432.61 | 0.00  | 432.61 | 90.35 | 0.00  | 90.35  | 0.00      |
| Fine Grading Off Road Diesel       | 11.80 | 101.10 | 49.35  | 0.00 | 0.00   | 4.97  | 4.97   | 0.00  | 4.57  | 4.57   | 8,842.87  |
| Fine Grading On Road Diesel        | 9.94  | 150.89 | 51.89  | 0.19 | 0.70   | 5.88  | 6.59   | 0.23  | 5.41  | 5.64   | 20,130.04 |
| Fine Grading Worker Trips          | 0.08  | 0.13   | 2.38   | 0.00 | 0.01   | 0.01  | 0.02   | 0.00  | 0.00  | 0.01   | 256.11    |
| Time Slice 7/13/2009-7/17/2009     | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04  | 2.42  | 2.45   | 4,590.32  |
| Active Days: 5                     |       |        |        |      |        |       |        |       |       |        |           |
| Asphalt 07/06/2009-07/24/2009      | 11.61 | 43.01  | 19.63  | 0.03 | 0.11   | 2.63  | 2.74   | 0.04  | 2.42  | 2.45   | 4,590.32  |
| Paving Off-Gas                     | 6.68  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00   | 0.00      |
| Paving Off Road Diesel             | 3.39  | 20.13  | 10.59  | 0.00 | 0.00   | 1.74  | 1.74   | 0.00  | 1.60  | 1.60   | 1,418.81  |
| Paving On Road Diesel              | 1.50  | 22.81  | 7.85   | 0.03 | 0.11   | 0.89  | 1.00   | 0.03  | 0.82  | 0.85   | 3,043.45  |
| Paving Worker Trips                | 0.04  | 0.07   | 1.19   | 0.00 | 0.01   | 0.00  | 0.01   | 0.00  | 0.00  | 0.00   | 128.06    |

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|                                |       |       |               |             |      |      |      |      |      |      |           |
|--------------------------------|-------|-------|---------------|-------------|------|------|------|------|------|------|-----------|
| Time Slice 7/20/2009-7/24/2009 | 24.55 | 82.47 | <u>301.13</u> | <u>0.31</u> | 1.51 | 5.04 | 6.55 | 0.54 | 4.58 | 5.12 | 35,525.39 |
| Active Days: 5                 |       |       |               |             |      |      |      |      |      |      |           |
| Asphalt 07/06/2009-07/24/2009  | 11.61 | 43.01 | 19.63         | 0.03        | 0.11 | 2.63 | 2.74 | 0.04 | 2.42 | 2.45 | 4,590.32  |
| Paving Off-Gas                 | 6.68  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Paving Off Road Diesel         | 3.39  | 20.13 | 10.59         | 0.00        | 0.00 | 1.74 | 1.74 | 0.00 | 1.60 | 1.60 | 1,418.81  |
| Paving On Road Diesel          | 1.50  | 22.81 | 7.85          | 0.03        | 0.11 | 0.89 | 1.00 | 0.03 | 0.82 | 0.85 | 3,043.45  |
| Paving Worker Trips            | 0.04  | 0.07  | 1.19          | 0.00        | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 128.06    |
| Building 07/20/2009-08/07/2009 | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Building Off Road Diesel       | 4.37  | 24.71 | 14.63         | 0.00        | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,259.28  |
| Building Vendor Trips          | 0.00  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Building Worker Trips          | 8.57  | 14.74 | 266.86        | 0.28        | 1.40 | 0.60 | 2.00 | 0.50 | 0.49 | 1.00 | 28,675.79 |
| Time Slice 7/27/2009-8/7/2009  | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Active Days: 10                |       |       |               |             |      |      |      |      |      |      |           |
| Building 07/20/2009-08/07/2009 | 12.94 | 39.45 | 281.50        | 0.28        | 1.40 | 2.41 | 3.81 | 0.50 | 2.16 | 2.66 | 30,935.07 |
| Building Off Road Diesel       | 4.37  | 24.71 | 14.63         | 0.00        | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,259.28  |
| Building Vendor Trips          | 0.00  | 0.00  | 0.00          | 0.00        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00      |
| Building Worker Trips          | 8.57  | 14.74 | 266.86        | 0.28        | 1.40 | 0.60 | 2.00 | 0.50 | 0.49 | 1.00 | 28,675.79 |

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 6/8/2009 - 7/10/2009 - Default Fine Site Grading Description

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

PM10: 55% PM25: 55%