

## PM 2.5 MONITORING ANNUAL SUMMARY

OAKRIDGE - 2008

24 HOUR AVERAGE CONCENTRATION,  $\mu\text{g}/\text{m}^3$ , LTP

| DAY | JAN  | FEB  | MAR  | APR | MAY | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  |
|-----|------|------|------|-----|-----|------|------|------|------|------|------|------|
| 1   | 36.2 |      | 4.3  |     |     |      |      | 2.5  |      | 14.4 | 13.4 | 19.0 |
| 2   |      |      |      |     |     | 3.2  | 17.0 |      |      | 10.5 | 6.2  | 11.9 |
| 3   |      | 34.4 |      | 5.5 | 7.5 |      |      |      | 3.5  | 5.6  | 6.0  | 10.3 |
| 4   | 5.3  |      |      |     |     |      |      | 6.0  |      | 1.7  | 6.5  | 30.9 |
| 5   |      |      |      |     |     | 2.5  | 2.8  |      |      | 2.3  | 6.5  | 36.7 |
| 6   |      | 9.8  |      | 3.9 | 6.9 |      |      |      | 3.9  | 2.3  | 6.0  | 38.7 |
| 7   | 20.2 |      | 21.5 |     |     |      |      | 12.3 |      | 4.5  | 9.2  | 22.9 |
| 8   |      |      |      |     |     | 3.1  | 7.3  |      |      | 3.8  | 9.5  | 17.6 |
| 9   |      | 13.4 |      | 3.6 | 8.6 |      |      |      | 6.3  | 5.2  | 5.0  | 20.9 |
| 10  | 12.5 |      | 14.4 |     |     |      |      | 1.3  |      | 6.4  | 9.3  | 26.3 |
| 11  |      |      |      |     |     | 4.1  | 5.1  |      |      | 13.9 | 11.0 | 35.0 |
| 12  |      | 17.4 |      | 9.1 | 4.5 |      |      |      | 6.0  | 9.6  | 10.5 | 5.4  |
| 13  | 13.0 |      | 4.3  |     |     |      |      | 4.5  |      | 12.7 | 5.7  | 19.5 |
| 14  |      |      |      |     |     | 4.5  | 4.7  |      |      | 10.0 | 20.0 | 25.8 |
| 15  |      | 23.1 |      | 5.1 | 3.4 |      |      |      | 12.4 | 8.3  | 24.8 | 4.7  |
| 16  | 20.0 |      | 6.4  |     |     |      |      | 11.3 |      | 10.2 | 25.1 | 33.3 |
| 17  |      |      |      |     |     | 7.0  | 5.3  |      |      | 7.4  | 34.6 | 21.1 |
| 18  |      | 42.6 |      | 6.0 | 6.6 |      |      |      | 8.9  | 8.4  | 23.3 | 21.0 |
| 19  | 10.3 |      | 6.0  |     |     |      |      | 7.9  |      | 10.8 | 18.7 | 18.5 |
| 20  |      |      |      |     |     | 3.3  | 6.2  |      |      |      | 9.0  | 30.5 |
| 21  |      | 17.4 |      | 6.4 | 1.7 |      |      |      | 2.9  | 11.5 | 8.9  | 31.5 |
| 22  | 43.5 |      | 8.3  |     |     |      |      | 4.4  |      | 14.7 | 7.4  | 28.0 |
| 23  |      |      |      |     |     | 4.4  | 6.8  |      |      | 21.6 | 16.4 | 36.3 |
| 24  |      | 13.7 |      | 6.3 | 2.4 |      |      |      | 8.0  | 20.3 | 18.7 | 20.6 |
| 25  | 42.2 |      | 8.0  |     |     |      |      | 2.2  |      | 25.6 | 15.3 | 27.5 |
| 26  |      |      |      |     |     | 5.1  | 4.0  |      |      | 23.7 | 24.3 | 25.4 |
| 27  |      | 23.0 |      | 6.5 | 2.4 |      |      |      | 15.3 | 21.9 | 10.6 | 21.0 |
| 28  | 29.4 |      | 8.9  |     |     |      |      | 4.5  |      | 15.4 | 18.5 | 32.1 |
| 29  |      |      |      |     |     | 16.4 | 2.8  |      |      | 12.8 | 23.7 | 11.9 |
| 30  |      |      |      | 3.9 | 3.8 |      |      |      | 14.6 | 20.2 | 21.6 | 10.1 |
| 31  | 18.6 |      | 10.1 |     |     |      |      | 2.9  |      | 16.9 |      | 15.8 |

| MONTH |        |        |       |        |        |        |        |        |        |       |        |        |
|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| NCAP  | 11     | 9      | 10    | 10     | 10     | 10     | 10     | 11     | 10     | 30    | 30     | 31     |
| %CAP  | 100.0% | 100.0% | 90.9% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 96.8% | 100.0% | 100.0% |
| MEAN  | 22.8   | 21.6   | 9.2   | 5.6    | 4.8    | 5.4    | 6.2    | 5.4    | 8.2    | 11.8  | 14.2   | 22.9   |
| MAX   | 43.5   | 42.6   | 21.5  | 9.1    | 8.6    | 16.4   | 17.0   | 12.3   | 15.3   | 25.6  | 34.6   | 38.7   |

| QUARTER | Q1    |  |  | Q2    |  |  | Q3     |  |  | Q4    |  |  |
|---------|-------|--|--|-------|--|--|--------|--|--|-------|--|--|
| NCAP    | 30    |  |  | 30    |  |  | 31     |  |  | 91    |  |  |
| %CAP    | 96.8% |  |  | 96.8% |  |  | 100.0% |  |  | 98.9% |  |  |
| MEAN    | 17.9  |  |  | 5.2   |  |  | 6.5    |  |  | 16.3  |  |  |

| ANNUAL   | Site Statistics |      |      |      |      |                 |      |      |      |      |      |
|----------|-----------------|------|------|------|------|-----------------|------|------|------|------|------|
| NCAP     | 182             | HIGH | 43.5 | 6th  | 36.3 | Year            | 2004 | 2005 | 2006 | 2007 | 2008 |
| %NCAP    | 98.9%           | 2nd  | 42.6 | 7th  | 36.2 | Annual Mean     | 12.0 | 12.8 | 11.0 | 10.4 | 11.5 |
| YMEAN    | 13.12           | 3rd  | 42.2 | 8th  | 35.0 | Annual High     | 69.3 | 73.0 | 47.0 | 52.5 | 43.5 |
| QYMEAN   | 11.5            | 4th  | 38.7 | 9th  | 34.6 | Annual 98 %-ile | 46.1 | 58.4 | 38.6 | 42.7 | 38.7 |
| 98 %-ile | 39              | 5th  | 36.7 | 10th | 34.4 | 3 Year 98 %-ile | 52   | 53   | 48   | 47   | 40   |