

## **Appendix A2**

### **BAM Operation Description Record of PM<sub>2.5</sub> Measurements**

## **BAM Operation Description**

Each hour, the BAM performs a cycle consisting of four steps in order to produce an average hourly PM<sub>2.5</sub> concentration. Included in each cycle is an automatic calibration, which allows the instrument to provide highly accurate PM<sub>2.5</sub> concentrations each hour.

### Step 1: Initial Count

The BAM 1020 instrument houses a small <sup>14</sup>C element, which emits a constant source of high-energy electrons, or beta particles. During the first step of the sampling cycle, a blank section of filter tape is exposed to this element and the beta particles passing through the tape are detected with high precision by an ultra-sensitive scintillation counter. This initial count (I<sub>0</sub>) of the clean filter tape takes four minutes.

### Step 2: Ambient Air Sampling

The filter tape is advanced such that the area previously exposed to the <sup>14</sup>C element is now directly underneath the sampling inlet. A vacuum pump draws ambient air from outside at a known flow rate through a cyclone that removes any particles greater than 2.5 micron in diameter. This air is drawn downwards through a nozzle and across the section of filter tape where I<sub>0</sub> was just measured in Step 1. Thus, all PM<sub>2.5</sub> present in the sampled air is deposited onto the filter tape. This sample is collected for a duration of 50 minutes.

### Step 3: Calibration

While the sample is being collected on the filter tape, a second count (I<sub>1</sub>) occurs on a blank section of tape, where the <sup>14</sup>C element and counter are located (where I<sub>0</sub> is determined). This count allows for verification of instrument drift caused by varying external parameters such as temperature and relative humidity, and takes four minutes. A third count (I<sub>2</sub>) takes place at the same location with a reference membrane extended over the tape, and the instrument determines whether the measured variability is within an acceptable range.

### Step 4: Concentration Calculation

The section of the tape located underneath the sample inlet is moved back to where I<sub>0</sub> was counted, and the beta ray absorption through the section that has collected dust is measured (I<sub>3</sub>). This count results in the determination of a mass of PM<sub>2.5</sub>, which is divided by the total volume of air sampled to provide a concentration of PM<sub>2.5</sub> for the hour. This completes the hourly cycle.

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/1/2006 0:00	19.5	16.9
10/1/2006 1:00	24.7	15.3
10/1/2006 2:00	24.2	14.3
10/1/2006 3:00	28.6	14.4
10/1/2006 4:00	26.2	14.9
10/1/2006 5:00	30.0	13.8
10/1/2006 6:00	26.3	10.4
10/1/2006 7:00	23.6	12.6
10/1/2006 8:00	22.0	13.8
10/1/2006 9:00	21.9	13.0
10/1/2006 10:00	36.9	13.9
10/1/2006 11:00	36.7	<b>outlier removed</b>
10/1/2006 12:00	32.5	<b>outlier removed</b>
10/1/2006 13:00	32.5	14.8
10/1/2006 14:00	25.7	11.9
10/1/2006 15:00	18.2	9.7
10/1/2006 16:00	19.0	10.3
10/1/2006 17:00	27.3	11.3
10/1/2006 18:00	24.4	14.2
10/1/2006 19:00	25.5	16.0
10/1/2006 20:00	14.6	14.5
10/1/2006 21:00	16.4	15.1
10/1/2006 22:00	28.7	17.2
10/1/2006 23:00	26.9	18.5
10/2/2006 0:00	31.8	22.6
10/2/2006 1:00	39.2	17.6
10/2/2006 2:00	21.8	16.9
10/2/2006 3:00	31.6	16.4
10/2/2006 4:00	11.9	16.3
10/2/2006 5:00	26.7	12.9
10/2/2006 6:00	32.6	12.2
10/2/2006 7:00	26.3	14.9
10/2/2006 8:00	33.5	13.8
10/2/2006 9:00	40.1	21.8
10/2/2006 10:00	37.3	12.8
10/2/2006 11:00	40.2	19.7
10/2/2006 12:00	38.9	16.1
10/2/2006 13:00	36.8	15.1
10/2/2006 14:00	35.7	15.8
10/2/2006 15:00	24.0	16.9
10/2/2006 16:00	31.5	22.9
10/2/2006 17:00	32.0	<b>outlier removed</b>
10/2/2006 18:00	27.9	13.8

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/2/2006 19:00	27.6	14.2
10/2/2006 20:00	32.0	16.0
10/2/2006 21:00	36.1	22.6
10/2/2006 22:00	40.5	15.3
10/2/2006 23:00	30.8	16.3
10/3/2006 0:00	28.1	15.2
10/3/2006 1:00	27.3	16.2
10/3/2006 2:00	41.7	19.3
10/3/2006 3:00	35.3	17.6
10/3/2006 4:00	39.3	20.2
10/3/2006 5:00	48.2	21.3
10/3/2006 6:00	50.5	19.2
10/3/2006 7:00	52.0	22.6
10/3/2006 8:00	50.0	25.3
10/3/2006 9:00	55.6	24.0
10/3/2006 10:00	51.3	20.5
10/3/2006 11:00	71.5	21.0
10/3/2006 12:00	61.4	19.8
10/3/2006 13:00	81.2	27.6
10/3/2006 14:00	57.7	19.1
10/3/2006 15:00	44.7	18.0
10/3/2006 16:00	37.3	26.9
10/3/2006 17:00	32.2	<b>outlier removed</b>
10/3/2006 18:00	30.6	17.2
10/3/2006 19:00	40.9	17.2
10/3/2006 20:00	37.5	16.1
10/3/2006 21:00	35.7	16.8
10/3/2006 22:00	39.7	26.8
10/3/2006 23:00	46.9	19.7
10/4/2006 0:00	43.4	14.5
10/4/2006 1:00	30.9	16.4
10/4/2006 2:00	34.6	17.1
10/4/2006 3:00	46.3	14.7
10/4/2006 4:00	54.6	24.0
10/4/2006 5:00	58.0	24.7
10/4/2006 6:00	69.9	22.0
10/4/2006 7:00	66.9	27.2
10/4/2006 8:00	80.2	25.2
10/4/2006 9:00	<b>outlier removed</b>	24.8
10/4/2006 10:00	<b>outlier removed</b>	23.1
10/4/2006 11:00	91.5	26.2
10/4/2006 12:00	56.0	24.9
10/4/2006 13:00	69.0	19.3

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/4/2006 14:00	76.9	21.8
10/4/2006 15:00	55.3	23.5
10/4/2006 16:00	40.7	19.0
10/4/2006 17:00	35.8	20.7
10/4/2006 18:00	40.7	19.6
10/4/2006 19:00	28.1	11.6
10/4/2006 20:00	27.8	13.7
10/4/2006 21:00	17.6	15.6
10/4/2006 22:00	24.0	19.9
10/4/2006 23:00	15.5	16.8
10/5/2006 0:00	20.6	18.0
10/5/2006 1:00	12.9	15.4
10/5/2006 2:00	23.1	12.6
10/5/2006 3:00	9.3	13.3
10/5/2006 4:00	13.3	11.9
10/5/2006 5:00	15.0	11.6
10/5/2006 6:00	13.1	12.3
10/5/2006 7:00	10.0	10.8
10/5/2006 8:00	6.8	6.8
10/5/2006 9:00	8.2	9.2
10/5/2006 10:00	9.5	13.3
10/5/2006 11:00	9.9	12.0
10/5/2006 12:00	13.5	14.4
10/5/2006 13:00	19.6	11.5
10/5/2006 14:00	6.9	11.3
10/5/2006 15:00	11.5	15.8
10/5/2006 16:00	18.8	13.2
10/5/2006 17:00	8.6	13.7
10/5/2006 18:00	11.2	12.7
10/5/2006 19:00	10.8	10.9
10/5/2006 20:00	9.6	12.4
10/5/2006 21:00	12.3	12.6
10/5/2006 22:00	14.4	11.2
10/5/2006 23:00	11.5	13.8
10/6/2006 0:00	4.7	15.4
10/6/2006 1:00	4.6	13.7
10/6/2006 2:00	9.9	13.2
10/6/2006 3:00	12.0	11.3
10/6/2006 4:00	8.5	11.6
10/6/2006 5:00	9.2	9.2
10/6/2006 6:00	11.8	7.4
10/6/2006 7:00	20.0	8.5
10/6/2006 8:00	6.1	9.6

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/6/2006 9:00	7.3	14.3
10/6/2006 10:00	12.9	14.1
10/6/2006 11:00	14.2	13.7
10/6/2006 12:00	18.8	14.3
10/6/2006 13:00	6.3	11.1
10/6/2006 14:00	9.7	14.6
10/6/2006 15:00	8.9	17.6
10/6/2006 16:00	10.6	10.2
10/6/2006 17:00	12.8	8.8
10/6/2006 18:00	11.5	12.6
10/6/2006 19:00	10.2	13.6
10/6/2006 20:00	10.8	12.4
10/6/2006 21:00	19.5	12.7
10/6/2006 22:00	25.2	17.5
10/6/2006 23:00	24.6	16.8
10/7/2006 0:00	21.1	15.3
10/7/2006 1:00	15.7	16.4
10/7/2006 2:00	27.2	14.5
10/7/2006 3:00	18.2	10.5
10/7/2006 4:00	15.9	11.3
10/7/2006 5:00	14.4	12.9
10/7/2006 6:00	13.1	12.4
10/7/2006 7:00	12.4	13.9
10/7/2006 8:00	25.4	14.8
10/7/2006 9:00	17.1	14.7
10/7/2006 10:00	24.7	16.0
10/7/2006 11:00	24.0	15.2
10/7/2006 12:00	16.6	11.0
10/7/2006 13:00	16.9	10.1
10/7/2006 14:00	17.1	10.1
10/7/2006 15:00	28.6	10.4
10/7/2006 16:00	9.7	11.0
10/7/2006 17:00	9.1	12.0
10/7/2006 18:00	31.6	13.4
10/7/2006 19:00	26.9	13.9
10/7/2006 20:00	23.4	16.0
10/7/2006 21:00	30.9	15.3
10/7/2006 22:00	27.8	14.8
10/7/2006 23:00	24.1	15.6
10/8/2006 0:00	34.6	13.6
10/8/2006 1:00	21.9	14.6
10/8/2006 2:00	36.6	18.0
10/8/2006 3:00	32.2	16.9

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/8/2006 4:00	33.5	15.7
10/8/2006 5:00	33.8	16.4
10/8/2006 6:00	33.6	15.8
10/8/2006 7:00	36.1	21.4
10/8/2006 8:00	32.3	17.3
10/8/2006 9:00	28.1	17.0
10/8/2006 10:00	31.6	16.0
10/8/2006 11:00	49.7	12.9
10/8/2006 12:00	46.8	13.4
10/8/2006 13:00	33.5	19.1
10/8/2006 14:00	26.6	74.2
10/8/2006 15:00	24.3	17.2
10/8/2006 16:00	31.3	19.6
10/8/2006 17:00	27.9	17.4
10/8/2006 18:00	38.5	16.1
10/8/2006 19:00	29.4	16.8
10/8/2006 20:00	30.1	17.8
10/8/2006 21:00	38.9	15.8
10/8/2006 22:00	39.8	23.0
10/8/2006 23:00	30.5	23.7
10/9/2006 0:00	40.2	23.2
10/9/2006 1:00	38.4	22.4
10/9/2006 2:00	41.7	19.1
10/9/2006 3:00	44.0	22.2
10/9/2006 4:00	48.2	21.2
10/9/2006 5:00	44.7	16.6
10/9/2006 6:00	45.8	15.6
10/9/2006 7:00	31.2	14.5
10/9/2006 8:00	33.4	11.8
10/9/2006 9:00	37.8	11.2
10/9/2006 10:00	59.6	14.5
10/9/2006 11:00	45.7	14.3
10/9/2006 12:00	54.4	16.2
10/9/2006 13:00	37.1	22.2
10/9/2006 14:00	35.4	16.6
10/9/2006 15:00	48.2	17.7
10/9/2006 16:00	51.8	17.8
10/9/2006 17:00	43.8	22.7
10/9/2006 18:00	45.3	27.4
10/9/2006 19:00	35.0	16.7
10/9/2006 20:00	21.9	15.2
10/9/2006 21:00	20.8	13.9
10/9/2006 22:00	27.1	13.4

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/9/2006 23:00	19.3	12.7
10/10/2006 0:00	18.5	14.0
10/10/2006 1:00	23.3	16.9
10/10/2006 2:00	22.5	14.8
10/10/2006 3:00	17.1	12.5
10/10/2006 4:00	17.9	14.0
10/10/2006 5:00	17.0	12.7
10/10/2006 6:00	16.1	14.1
10/10/2006 7:00	20.9	16.1
10/10/2006 8:00	12.0	14.9
10/10/2006 9:00	15.3	14.4
10/10/2006 10:00	18.3	12.4
10/10/2006 11:00	18.4	12.9
10/10/2006 12:00	21.0	15.3
10/10/2006 13:00	12.9	13.1
10/10/2006 14:00	15.2	10.1
10/10/2006 15:00	23.1	11.6
10/10/2006 16:00	16.9	12.6
10/10/2006 17:00	16.1	12.9
10/10/2006 18:00	20.6	15.9
10/10/2006 19:00	11.9	18.1
10/10/2006 20:00	29.0	18.0
10/10/2006 21:00	37.7	17.0
10/10/2006 22:00	34.3	13.7
10/10/2006 23:00	28.5	14.7
10/11/2006 0:00	23.5	18.2
10/11/2006 1:00	27.0	15.4
10/11/2006 2:00	32.3	14.0
10/11/2006 3:00	29.0	14.0
10/11/2006 4:00	34.0	13.3
10/11/2006 5:00	29.5	21.4
10/11/2006 6:00	38.4	20.2
10/11/2006 7:00	40.6	15.6
10/11/2006 8:00	48.1	22.1
10/11/2006 9:00	50.6	14.9
10/11/2006 10:00	56.1	22.6
10/11/2006 11:00	55.0	21.2
10/11/2006 12:00	59.2	19.7
10/11/2006 13:00	42.6	13.7
10/11/2006 14:00	33.9	14.5
10/11/2006 15:00	44.6	16.1
10/11/2006 16:00	57.1	15.4
10/11/2006 17:00	55.5	32.9



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/11/2006 18:00	43.6	outlier removed
10/11/2006 19:00	33.3	16.4
10/11/2006 20:00	25.3	15.2
10/11/2006 21:00	15.8	14.8
10/11/2006 22:00	14.5	14.8
10/11/2006 23:00	12.5	14.2
10/12/2006 0:00	13.0	15.3
10/12/2006 1:00	24.8	15.5
10/12/2006 2:00	20.2	13.6
10/12/2006 3:00	17.1	12.8
10/12/2006 4:00	15.5	12.5
10/12/2006 5:00	14.4	11.5
10/12/2006 6:00	12.3	11.2
10/12/2006 7:00	7.2	11.7
10/12/2006 8:00	9.0	11.0
10/12/2006 9:00	13.8	10.1
10/12/2006 10:00	11.8	11.6
10/12/2006 11:00	11.9	12.2
10/12/2006 12:00	13.9	11.6
10/12/2006 13:00	13.3	11.9
10/12/2006 14:00	13.2	12.4
10/12/2006 15:00	21.1	10.7
10/12/2006 16:00	16.1	10.9
10/12/2006 17:00	19.9	11.2
10/12/2006 18:00	17.1	19.5
10/12/2006 19:00	15.9	10.4
10/12/2006 20:00	16.6	12.0
10/12/2006 21:00	15.6	14.4
10/12/2006 22:00	9.3	13.3
10/12/2006 23:00	6.2	12.2
10/13/2006 0:00	8.5	12.5
10/13/2006 1:00	8.6	11.3
10/13/2006 2:00	11.3	13.3
10/13/2006 3:00	13.0	14.2
10/13/2006 4:00	8.1	13.4
10/13/2006 5:00	7.6	14.0
10/13/2006 6:00	10.3	11.9
10/13/2006 7:00	6.1	10.5
10/13/2006 8:00	7.4	15.0
10/13/2006 9:00	14.6	12.4
10/13/2006 10:00	11.9	10.1
10/13/2006 11:00	9.0	12.6
10/13/2006 12:00	12.7	11.8

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/13/2006 13:00	10.6	13.5
10/13/2006 14:00	6.1	45.3
10/13/2006 15:00	6.5	12.2
10/13/2006 16:00	9.2	11.1
10/13/2006 17:00	10.2	10.1
10/13/2006 18:00	11.2	11.4
10/13/2006 19:00	12.2	10.3
10/13/2006 20:00	11.5	10.1
10/13/2006 21:00	11.7	12.5
10/13/2006 22:00	7.4	11.6
10/13/2006 23:00	5.8	11.8
10/14/2006 0:00	8.2	12.7
10/14/2006 1:00	7.1	10.6
10/14/2006 2:00	8.0	10.2
10/14/2006 3:00	13.0	10.3
10/14/2006 4:00	15.9	10.5
10/14/2006 5:00	13.1	12.1
10/14/2006 6:00	11.8	12.1
10/14/2006 7:00	11.8	11.3
10/14/2006 8:00	11.1	11.4
10/14/2006 9:00	9.7	10.1
10/14/2006 10:00	8.0	9.4
10/14/2006 11:00	20.2	12.0
10/14/2006 12:00	8.9	35.1
10/14/2006 13:00	11.6	7.6
10/14/2006 14:00	14.7	8.4
10/14/2006 15:00	10.4	4.0
10/14/2006 16:00	8.3	2.7
10/14/2006 17:00	11.4	8.1
10/14/2006 18:00	9.9	8.8
10/14/2006 19:00	11.5	9.3
10/14/2006 20:00	11.2	8.9
10/14/2006 21:00	11.9	11.1
10/14/2006 22:00	13.8	15.8
10/14/2006 23:00	13.3	15.0
10/15/2006 0:00	15.9	12.4
10/15/2006 1:00	15.0	11.2
10/15/2006 2:00	9.9	11.2
10/15/2006 3:00	11.1	13.8
10/15/2006 4:00	20.2	16.4
10/15/2006 5:00	17.2	14.9
10/15/2006 6:00	16.5	11.4
10/15/2006 7:00	15.2	10.8

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### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/15/2006 8:00	13.9	11.9
10/15/2006 9:00	13.3	13.4
10/15/2006 10:00	9.9	13.3
10/15/2006 11:00	11.6	11.9
10/15/2006 12:00	13.0	11.7
10/15/2006 13:00	8.9	12.3
10/15/2006 14:00	11.9	10.1
10/15/2006 15:00	12.4	7.0
10/15/2006 16:00	10.6	9.0
10/15/2006 17:00	13.1	9.6
10/15/2006 18:00	11.2	11.1
10/15/2006 19:00	11.4	13.2
10/15/2006 20:00	13.9	11.5
10/15/2006 21:00	21.9	11.5
10/15/2006 22:00	19.6	14.7
10/15/2006 23:00	13.3	14.9
10/16/2006 0:00	13.5	13.4
10/16/2006 1:00	11.2	14.4
10/16/2006 2:00	11.0	14.5
10/16/2006 3:00	12.4	12.9
10/16/2006 4:00	10.6	11.8
10/16/2006 5:00	12.6	13.8
10/16/2006 6:00	15.2	17.5
10/16/2006 7:00	14.1	17.0
10/16/2006 8:00	10.7	15.7
10/16/2006 9:00	13.4	13.0
10/16/2006 10:00	16.4	11.6
10/16/2006 11:00	19.2	14.0
10/16/2006 12:00	26.0	11.6
10/16/2006 13:00	31.7	10.1
10/16/2006 14:00	20.9	11.0
10/16/2006 15:00	18.6	9.2
10/16/2006 16:00	17.8	11.0
10/16/2006 17:00	14.9	13.8
10/16/2006 18:00	15.2	13.8
10/16/2006 19:00	22.0	14.2
10/16/2006 20:00	22.1	15.1
10/16/2006 21:00	19.7	15.8
10/16/2006 22:00	28.8	16.6
10/16/2006 23:00	30.2	15.4
10/17/2006 0:00	26.0	12.1
10/17/2006 1:00	24.8	10.8
10/17/2006 2:00	26.3	14.8

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/17/2006 3:00	32.4	14.7
10/17/2006 4:00	36.1	13.2
10/17/2006 5:00	24.9	17.1
10/17/2006 6:00	30.5	15.2
10/17/2006 7:00	23.5	9.5
10/17/2006 8:00	26.4	8.9
10/17/2006 9:00	19.3	13.4
10/17/2006 10:00	26.8	14.0
10/17/2006 11:00	18.1	11.2
10/17/2006 12:00	22.2	12.3
10/17/2006 13:00	28.1	10.2
10/17/2006 14:00	29.1	7.6
10/17/2006 15:00	28.5	12.3
10/17/2006 16:00	29.3	15.0
10/17/2006 17:00	26.5	15.4
10/17/2006 18:00	21.5	14.8
10/17/2006 19:00	25.8	11.8
10/17/2006 20:00	20.5	22.8
10/17/2006 21:00	24.3	13.2
10/17/2006 22:00	21.2	13.1
10/17/2006 23:00	16.9	12.4
10/18/2006 0:00	29.7	15.2
10/18/2006 1:00	12.8	18.2
10/18/2006 2:00	20.4	17.5
10/18/2006 3:00	34.1	16.1
10/18/2006 4:00	33.4	16.3
10/18/2006 5:00	31.4	18.5
10/18/2006 6:00	28.9	17.8
10/18/2006 7:00	32.6	15.5
10/18/2006 8:00	20.8	14.6
10/18/2006 9:00	33.3	14.8
10/18/2006 10:00	30.6	14.9
10/18/2006 11:00	42.4	15.1
10/18/2006 12:00	37.3	16.2
10/18/2006 13:00	31.8	15.0
10/18/2006 14:00	40.2	15.2
10/18/2006 15:00	38.2	17.3
10/18/2006 16:00	34.8	63.8
10/18/2006 17:00	50.3	14.3
10/18/2006 18:00	31.5	14.9
10/18/2006 19:00	32.4	17.4
10/18/2006 20:00	31.2	18.2
10/18/2006 21:00	34.6	16.8

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/18/2006 22:00	36.9	15.6
10/18/2006 23:00	29.8	17.0
10/19/2006 0:00	39.6	17.1
10/19/2006 1:00	48.5	16.7
10/19/2006 2:00	36.0	18.3
10/19/2006 3:00	43.8	20.8
10/19/2006 4:00	49.4	20.4
10/19/2006 5:00	58.2	21.2
10/19/2006 6:00	50.7	20.3
10/19/2006 7:00	40.7	19.8
10/19/2006 8:00	31.8	15.0
10/19/2006 9:00	22.9	10.6
10/19/2006 10:00	19.7	9.2
10/19/2006 11:00	22.8	13.3
10/19/2006 12:00	26.2	13.2
10/19/2006 13:00	20.9	10.8
10/19/2006 14:00	19.8	9.6
10/19/2006 15:00	17.5	9.5
10/19/2006 16:00	16.5	13.4
10/19/2006 17:00	13.3	15.3
10/19/2006 18:00	12.5	12.5
10/19/2006 19:00	18.3	12.1
10/19/2006 20:00	2.0	19.7
10/19/2006 21:00	9.8	15.9
10/19/2006 22:00	16.2	15.2
10/19/2006 23:00	14.1	13.7
10/20/2006 0:00	12.5	12.7
10/20/2006 1:00	12.6	11.5
10/20/2006 2:00	13.2	13.5
10/20/2006 3:00	14.3	13.5
10/20/2006 4:00	16.0	10.7
10/20/2006 5:00	17.6	11.2
10/20/2006 6:00	25.9	13.9
10/20/2006 7:00	21.1	13.6
10/20/2006 8:00	13.6	11.9
10/20/2006 9:00	20.9	13.7
10/20/2006 10:00	20.0	13.7
10/20/2006 11:00	28.3	12.4
10/20/2006 12:00	10.2	12.2
10/20/2006 13:00	11.3	12.1
10/20/2006 14:00	20.9	11.1
10/20/2006 15:00	17.9	10.3
10/20/2006 16:00	17.9	17.9

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/20/2006 17:00	18.2	95.0
10/20/2006 18:00	17.5	14.7
10/20/2006 19:00	14.5	15.1
10/20/2006 20:00	14.2	14.6
10/20/2006 21:00	22.5	13.1
10/20/2006 22:00	19.5	15.6
10/20/2006 23:00	24.6	17.1
10/21/2006 0:00	28.8	14.5
10/21/2006 1:00	21.8	13.8
10/21/2006 2:00	16.2	15.3
10/21/2006 3:00	20.8	15.7
10/21/2006 4:00	24.3	14.8
10/21/2006 5:00	20.4	16.6
10/21/2006 6:00	23.1	16.4
10/21/2006 7:00	18.4	13.3
10/21/2006 8:00	21.1	10.3
10/21/2006 9:00	24.8	11.9
10/21/2006 10:00	32.7	14.9
10/21/2006 11:00	30.6	16.3
10/21/2006 12:00	26.9	17.2
10/21/2006 13:00	29.6	16.1
10/21/2006 14:00	26.7	14.2
10/21/2006 15:00	34.5	13.8
10/21/2006 16:00	27.0	18.2
10/21/2006 17:00	30.2	77.1
10/21/2006 18:00	24.1	13.8
10/21/2006 19:00	24.7	15.0
10/21/2006 20:00	18.7	15.1
10/21/2006 21:00	20.4	16.4
10/21/2006 22:00	31.4	20.6
10/21/2006 23:00	28.6	17.8
10/22/2006 0:00	25.1	16.4
10/22/2006 1:00	18.2	13.4
10/22/2006 2:00	24.3	12.5
10/22/2006 3:00	22.7	16.3
10/22/2006 4:00	24.9	17.0
10/22/2006 5:00	35.4	14.7
10/22/2006 6:00	33.1	15.2
10/22/2006 7:00	31.0	20.7
10/22/2006 8:00	22.0	19.6
10/22/2006 9:00	38.9	19.1
10/22/2006 10:00	38.0	16.9
10/22/2006 11:00	39.3	19.9

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/22/2006 12:00	33.2	22.0
10/22/2006 13:00	28.5	18.6
10/22/2006 14:00	23.0	15.3
10/22/2006 15:00	23.5	13.1
10/22/2006 16:00	25.6	14.5
10/22/2006 17:00	15.2	14.1
10/22/2006 18:00	14.5	13.2
10/22/2006 19:00	12.7	12.2
10/22/2006 20:00	15.2	10.5
10/22/2006 21:00	15.2	11.2
10/22/2006 22:00	15.1	11.0
10/22/2006 23:00	11.3	11.1
10/23/2006 0:00	7.4	12.8
10/23/2006 1:00	12.6	12.9
10/23/2006 2:00	15.6	12.2
10/23/2006 3:00	15.5	12.0
10/23/2006 4:00	14.2	10.5
10/23/2006 5:00	14.3	10.0
10/23/2006 6:00	23.2	12.1
10/23/2006 7:00	19.8	13.8
10/23/2006 8:00	16.1	16.6
10/23/2006 9:00	17.3	15.4
10/23/2006 10:00	17.4	13.3
10/23/2006 11:00	19.7	15.2
10/23/2006 12:00	13.3	16.7
10/23/2006 13:00	15.2	13.6
10/23/2006 14:00	15.0	10.2
10/23/2006 15:00	10.6	9.6
10/23/2006 16:00	12.6	14.5
10/23/2006 17:00	15.2	93.5
10/23/2006 18:00	13.7	4.4
10/23/2006 19:00	14.2	7.7
10/23/2006 20:00	15.3	12.2
10/23/2006 21:00	16.4	13.3
10/23/2006 22:00	11.9	12.0
10/23/2006 23:00	12.3	11.0
10/24/2006 0:00	13.8	12.2
10/24/2006 1:00	11.3	12.0
10/24/2006 2:00	14.6	13.3
10/24/2006 3:00	15.4	14.2
10/24/2006 4:00	20.2	10.8
10/24/2006 5:00	17.2	10.2
10/24/2006 6:00	14.6	11.0

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/24/2006 7:00	15.0	11.4
10/24/2006 8:00	16.5	12.8
10/24/2006 9:00	13.9	14.8
10/24/2006 10:00	13.9	13.5
10/24/2006 11:00	14.4	11.4
10/24/2006 12:00	9.7	13.8
10/24/2006 13:00	7.3	14.5
10/24/2006 14:00	8.4	12.4
10/24/2006 15:00	6.4	9.7
10/24/2006 16:00	5.2	9.6
10/24/2006 17:00	9.3	14.1
10/24/2006 18:00	11.8	67.4
10/24/2006 19:00	12.0	14.1
10/24/2006 20:00	15.5	11.9
10/24/2006 21:00	12.9	12.8
10/24/2006 22:00	6.1	14.2
10/24/2006 23:00	21.8	11.2
10/25/2006 0:00	17.3	11.4
10/25/2006 1:00	17.4	13.9
10/25/2006 2:00	12.2	13.3
10/25/2006 3:00	11.6	10.6
10/25/2006 4:00	12.2	6.6
10/25/2006 5:00	4.8	5.6
10/25/2006 6:00	6.4	9.6
10/25/2006 7:00	13.4	10.6
10/25/2006 8:00	14.6	11.7
10/25/2006 9:00	15.3	12.4
10/25/2006 10:00	17.1	14.4
10/25/2006 11:00	14.2	16.6
10/25/2006 12:00	14.6	14.0
10/25/2006 13:00	15.0	8.9
10/25/2006 14:00	9.8	6.4
10/25/2006 15:00	8.3	9.8
10/25/2006 16:00	6.3	10.6
10/25/2006 17:00	4.1	9.3
10/25/2006 18:00	5.2	12.4
10/25/2006 19:00	8.9	15.4
10/25/2006 20:00	19.5	13.3
10/25/2006 21:00	8.7	14.8
10/25/2006 22:00	13.7	16.5
10/25/2006 23:00	15.2	12.3
10/26/2006 0:00	15.2	9.4
10/26/2006 1:00	14.8	9.4



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/26/2006 2:00	11.9	12.2
10/26/2006 3:00	14.2	15.2
10/26/2006 4:00	13.5	16.5
10/26/2006 5:00	13.2	15.2
10/26/2006 6:00	13.9	12.9
10/26/2006 7:00	13.5	14.7
10/26/2006 8:00	13.6	16.6
10/26/2006 9:00	15.0	14.8
10/26/2006 10:00	23.2	15.5
10/26/2006 11:00	18.7	17.7
10/26/2006 12:00	19.5	13.2
10/26/2006 13:00	10.0	9.9
10/26/2006 14:00	13.9	12.2
10/26/2006 15:00	15.6	13.1
10/26/2006 16:00	15.2	10.6
10/26/2006 17:00	14.8	9.6
10/26/2006 18:00	12.5	13.0
10/26/2006 19:00	12.0	12.8
10/26/2006 20:00	14.6	13.3
10/26/2006 21:00	14.5	17.4
10/26/2006 22:00	12.5	18.8
10/26/2006 23:00	10.4	44.5
10/27/2006 0:00	13.8	33.7
10/27/2006 1:00	16.4	56.2
10/27/2006 2:00	16.3	59.7
10/27/2006 3:00	16.0	60.7
10/27/2006 4:00	26.5	49.0
10/27/2006 5:00	19.4	50.0
10/27/2006 6:00	28.2	49.0
10/27/2006 7:00	23.4	45.6
10/27/2006 8:00	23.1	41.3
10/27/2006 9:00	16.6	46.2
10/27/2006 10:00	22.5	46.3
10/27/2006 11:00	17.5	43.8
10/27/2006 12:00	17.0	54.9
10/27/2006 13:00	24.9	24.7
10/27/2006 14:00	14.8	24.1
10/27/2006 15:00	20.8	13.7
10/27/2006 16:00	23.7	14.4
10/27/2006 17:00	24.8	17.8
10/27/2006 18:00	20.1	50.8
10/27/2006 19:00	22.9	14.1
10/27/2006 20:00	19.9	13.9

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/27/2006 21:00	19.8	14.9
10/27/2006 22:00	17.5	16.1
10/27/2006 23:00	14.1	14.2
10/28/2006 0:00	11.9	15.5
10/28/2006 1:00	14.1	16.1
10/28/2006 2:00	19.9	16.0
10/28/2006 3:00	19.3	18.2
10/28/2006 4:00	13.3	16.3
10/28/2006 5:00	12.4	14.7
10/28/2006 6:00	9.6	14.0
10/28/2006 7:00	13.2	13.7
10/28/2006 8:00	28.8	13.4
10/28/2006 9:00	28.6	19.4
10/28/2006 10:00	23.7	10.5
10/28/2006 11:00	31.5	12.9
10/28/2006 12:00	24.1	12.8
10/28/2006 13:00	23.8	11.8
10/28/2006 14:00	6.9	12.7
10/28/2006 15:00	11.1	11.1
10/28/2006 16:00	16.7	11.0
10/28/2006 17:00	12.4	13.3
10/28/2006 18:00	9.6	13.1
10/28/2006 19:00	18.9	14.1
10/28/2006 20:00	14.4	15.7
10/28/2006 21:00	11.7	14.7
10/28/2006 22:00	8.9	16.1
10/28/2006 23:00	10.9	14.9
10/29/2006 0:00	10.3	14.3
10/29/2006 1:00	5.7	17.8
10/29/2006 2:00	6.2	16.7
10/29/2006 3:00	9.5	12.0
10/29/2006 4:00	10.3	10.3
10/29/2006 5:00	11.4	10.9
10/29/2006 6:00	8.7	13.2
10/29/2006 7:00	5.9	13.6
10/29/2006 8:00	9.5	11.5
10/29/2006 9:00	10.3	10.4
10/29/2006 10:00	11.7	10.0
10/29/2006 11:00	15.1	11.1
10/29/2006 12:00	11.8	12.1
10/29/2006 13:00	10.5	16.8
10/29/2006 14:00	10.3	67.1
10/29/2006 15:00	6.5	8.6

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/29/2006 16:00	9.3	10.5
10/29/2006 17:00	13.8	11.1
10/29/2006 18:00	11.7	9.7
10/29/2006 19:00	8.9	10.9
10/29/2006 20:00	10.3	12.6
10/29/2006 21:00	13.2	13.5
10/29/2006 22:00	12.5	16.0
10/29/2006 23:00	10.8	16.3
10/30/2006 0:00	9.8	13.1
10/30/2006 1:00	10.6	13.7
10/30/2006 2:00	13.5	13.1
10/30/2006 3:00	16.3	11.7
10/30/2006 4:00	16.0	14.5
10/30/2006 5:00	14.2	15.4
10/30/2006 6:00	13.6	13.7
10/30/2006 7:00	21.6	15.5
10/30/2006 8:00	21.8	14.8
10/30/2006 9:00	20.7	14.4
10/30/2006 10:00	19.3	16.8
10/30/2006 11:00	12.6	15.3
10/30/2006 12:00	22.8	41.9
10/30/2006 13:00	26.0	17.4
10/30/2006 14:00	23.9	50.1
10/30/2006 15:00	28.3	9.2
10/30/2006 16:00	18.9	9.9
10/30/2006 17:00	26.4	11.0
10/30/2006 18:00	25.3	12.5
10/30/2006 19:00	16.3	15.1
10/30/2006 20:00	17.1	14.7
10/30/2006 21:00	17.0	14.1
10/30/2006 22:00	23.0	14.8
10/30/2006 23:00	31.1	14.0
10/31/2006 0:00	23.1	12.8
10/31/2006 1:00	17.5	14.4
10/31/2006 2:00	17.2	17.3
10/31/2006 3:00	21.4	15.4
10/31/2006 4:00	14.9	14.1
10/31/2006 5:00	16.0	14.5
10/31/2006 6:00	18.1	13.4
10/31/2006 7:00	22.4	11.4
10/31/2006 8:00	19.4	12.3
10/31/2006 9:00	12.5	13.8
10/31/2006 10:00	20.3	15.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
10/31/2006 11:00	27.6	17.5
10/31/2006 12:00	39.1	21.6
10/31/2006 13:00	29.1	15.3
10/31/2006 14:00	37.2	22.6
10/31/2006 15:00	29.2	24.3
10/31/2006 16:00	4.5	20.2
10/31/2006 17:00	4.5	40.3
10/31/2006 18:00	<b>outlier removed</b>	19.6
10/31/2006 19:00	<b>outlier removed</b>	13.7
10/31/2006 20:00	<b>outlier removed</b>	19.9
10/31/2006 21:00	19.1	16.1
10/31/2006 22:00	25.8	14.9
10/31/2006 23:00	25.9	14.5
11/1/2006 0:00	23.1	15.7
11/1/2006 1:00	20.6	16.1
11/1/2006 2:00	25.5	16.9
11/1/2006 3:00	21.5	18.2
11/1/2006 4:00	16.1	17.0
11/1/2006 5:00	27.4	13.0
11/1/2006 6:00	26.3	14.2
11/1/2006 7:00	19.9	15.7
11/1/2006 8:00	19.7	13.6
11/1/2006 9:00	19.1	13.9
11/1/2006 10:00	27.0	8.2
11/1/2006 11:00	17.5	4.8
11/1/2006 12:00	17.5	0.8
11/1/2006 13:00	16.0	3.4
11/1/2006 14:00	16.0	21.4
11/1/2006 15:00	10.6	12.8
11/1/2006 16:00	9.4	14.3
11/1/2006 17:00	12.0	16.8
11/1/2006 18:00	12.1	23.2
11/1/2006 19:00	13.0	14.3
11/1/2006 20:00	15.0	16.0
11/1/2006 21:00	15.0	17.0
11/1/2006 22:00	16.0	15.5
11/1/2006 23:00	18.7	12.9
11/2/2006 0:00	16.6	15.1
11/2/2006 1:00	13.6	17.7
11/2/2006 2:00	20.6	16.9
11/2/2006 3:00	16.0	13.9
11/2/2006 4:00	13.1	11.8
11/2/2006 5:00	13.3	12.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/2/2006 6:00	16.6	13.3
11/2/2006 7:00	15.5	14.9
11/2/2006 8:00	15.6	14.4
11/2/2006 9:00	17.1	15.3
11/2/2006 10:00	17.9	17.0
11/2/2006 11:00	18.5	22.3
11/2/2006 12:00	24.1	13.5
11/2/2006 13:00	26.7	16.0
11/2/2006 14:00	15.9	16.2
11/2/2006 15:00	16.5	15.7
11/2/2006 16:00	21.0	21.3
11/2/2006 17:00	18.8	21.8
11/2/2006 18:00	22.2	23.4
11/2/2006 19:00	14.8	14.1
11/2/2006 20:00	15.1	13.7
11/2/2006 21:00	15.9	12.7
11/2/2006 22:00	20.3	10.6
11/2/2006 23:00	23.3	9.4
11/3/2006 0:00	16.6	12.3
11/3/2006 1:00	17.6	13.2
11/3/2006 2:00	18.9	14.2
11/3/2006 3:00	19.4	14.5
11/3/2006 4:00	18.8	14.9
11/3/2006 5:00	15.6	16.6
11/3/2006 6:00	15.7	14.3
11/3/2006 7:00	20.6	13.1
11/3/2006 8:00	16.8	13.1
11/3/2006 9:00	15.3	11.3
11/3/2006 10:00	14.7	10.8
11/3/2006 11:00	16.6	11.3
11/3/2006 12:00	18.4	14.3
11/3/2006 13:00	24.4	20.1
11/3/2006 14:00	19.3	13.8
11/3/2006 15:00	17.3	14.9
11/3/2006 16:00	15.4	15.6
11/3/2006 17:00	17.0	12.7
11/3/2006 18:00	16.0	14.7
11/3/2006 19:00	16.8	20.2
11/3/2006 20:00	20.2	18.0
11/3/2006 21:00	18.4	15.2
11/3/2006 22:00	23.8	16.2
11/3/2006 23:00	28.5	20.6
11/4/2006 0:00	19.1	23.0

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/4/2006 1:00	27.4	17.6
11/4/2006 2:00	21.5	20.2
11/4/2006 3:00	26.0	19.6
11/4/2006 4:00	29.7	19.8
11/4/2006 5:00	25.6	23.4
11/4/2006 6:00	22.5	22.5
11/4/2006 7:00	25.9	21.2
11/4/2006 8:00	27.5	28.4
11/4/2006 9:00	23.9	24.8
11/4/2006 10:00	24.6	26.1
11/4/2006 11:00	24.2	22.2
11/4/2006 12:00	26.8	20.2
11/4/2006 13:00	14.8	14.2
11/4/2006 14:00	16.5	14.4
11/4/2006 15:00	17.5	13.4
11/4/2006 16:00	16.6	10.4
11/4/2006 17:00	16.2	13.3
11/4/2006 18:00	17.6	20.1
11/4/2006 19:00	20.4	21.1
11/4/2006 20:00	23.5	16.0
11/4/2006 21:00	23.6	24.1
11/4/2006 22:00	20.8	18.7
11/4/2006 23:00	25.1	18.3
11/5/2006 0:00	21.3	19.8
11/5/2006 1:00	18.8	18.0
11/5/2006 2:00	21.9	21.7
11/5/2006 3:00	25.7	20.2
11/5/2006 4:00	22.4	21.5
11/5/2006 5:00	19.8	24.0
11/5/2006 6:00	20.0	21.8
11/5/2006 7:00	25.4	24.8
11/5/2006 8:00	21.6	18.1
11/5/2006 9:00	16.8	18.7
11/5/2006 10:00	17.6	20.8
11/5/2006 11:00	17.4	15.2
11/5/2006 12:00	22.8	14.8
11/5/2006 13:00	16.2	12.9
11/5/2006 14:00	17.5	9.4
11/5/2006 15:00	20.9	10.1
11/5/2006 16:00	21.8	14.2
11/5/2006 17:00	18.5	16.2
11/5/2006 18:00	22.1	15.7
11/5/2006 19:00	21.1	22.1

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/5/2006 20:00	21.8	22.7
11/5/2006 21:00	18.6	21.8
11/5/2006 22:00	23.0	23.9
11/5/2006 23:00	22.6	23.9
11/6/2006 0:00	25.9	22.8
11/6/2006 1:00	25.1	21.9
11/6/2006 2:00	25.8	24.0
11/6/2006 3:00	30.1	31.4
11/6/2006 4:00	27.0	22.5
11/6/2006 5:00	28.9	31.1
11/6/2006 6:00	28.9	32.7
11/6/2006 7:00	32.0	25.4
11/6/2006 8:00	33.5	25.5
11/6/2006 9:00	29.3	29.2
11/6/2006 10:00	34.1	32.5
11/6/2006 11:00	34.3	25.4
11/6/2006 12:00	31.1	24.8
11/6/2006 13:00	29.5	20.4
11/6/2006 14:00	17.5	9.2
11/6/2006 15:00	16.3	8.8
11/6/2006 16:00	15.1	8.7
11/6/2006 17:00	20.4	9.5
11/6/2006 18:00	14.1	11.3
11/6/2006 19:00	15.1	12.4
11/6/2006 20:00	24.3	14.8
11/6/2006 21:00	16.6	20.3
11/6/2006 22:00	17.5	19.0
11/6/2006 23:00	22.0	16.6
11/7/2006 0:00	26.4	24.8
11/7/2006 1:00	25.5	16.4
11/7/2006 2:00	22.6	20.2
11/7/2006 3:00	20.6	20.7
11/7/2006 4:00	23.3	17.3
11/7/2006 5:00	12.1	16.9
11/7/2006 6:00	14.7	16.4
11/7/2006 7:00	17.0	15.2
11/7/2006 8:00	15.7	13.4
11/7/2006 9:00	23.3	13.2
11/7/2006 10:00	25.4	16.2
11/7/2006 11:00	23.7	18.8
11/7/2006 12:00	24.6	22.9
11/7/2006 13:00	26.1	23.0
11/7/2006 14:00	26.7	22.1

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/7/2006 15:00	24.9	14.3
11/7/2006 16:00	21.4	16.9
11/7/2006 17:00	19.2	21.4
11/7/2006 18:00	19.3	46.6
11/7/2006 19:00	25.3	38.5
11/7/2006 20:00	21.9	30.6
11/7/2006 21:00	20.7	33.4
11/7/2006 22:00	27.3	82.5
11/7/2006 23:00	26.6	57.2
11/8/2006 0:00	25.5	100.7
11/8/2006 1:00	24.8	outlier removed
11/8/2006 2:00	23.5	outlier removed
11/8/2006 3:00	29.6	116.8
11/8/2006 4:00	17.6	24.6
11/8/2006 5:00	16.0	21.0
11/8/2006 6:00	22.1	15.8
11/8/2006 7:00	18.8	14.9
11/8/2006 8:00	14.5	12.7
11/8/2006 9:00	13.5	12.7
11/8/2006 10:00	15.2	13.8
11/8/2006 11:00	21.0	21.7
11/8/2006 12:00	25.7	22.1
11/8/2006 13:00	29.8	29.9
11/8/2006 14:00	22.5	24.1
11/8/2006 15:00	21.2	21.7
11/8/2006 16:00	20.3	20.2
11/8/2006 17:00	18.3	20.2
11/8/2006 18:00	17.9	15.3
11/8/2006 19:00	17.4	16.7
11/8/2006 20:00	23.7	20.1
11/8/2006 21:00	17.8	15.1
11/8/2006 22:00	21.8	20.0
11/8/2006 23:00	20.5	22.5
11/9/2006 0:00	19.6	24.8
11/9/2006 1:00	28.3	23.5
11/9/2006 2:00	26.1	26.2
11/9/2006 3:00	29.0	36.3
11/9/2006 4:00	24.3	32.1
11/9/2006 5:00	28.1	30.4
11/9/2006 6:00	29.5	28.5
11/9/2006 7:00	28.1	24.7
11/9/2006 8:00	25.4	30.3
11/9/2006 9:00	28.3	25.4



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/9/2006 10:00	25.4	31.5
11/9/2006 11:00	33.0	40.8
11/9/2006 12:00	37.0	33.1
11/9/2006 13:00	37.1	30.4
11/9/2006 14:00	27.9	20.8
11/9/2006 15:00	28.6	30.0
11/9/2006 16:00	24.0	24.8
11/9/2006 17:00	27.2	21.7
11/9/2006 18:00	22.3	23.7
11/9/2006 19:00	24.4	24.9
11/9/2006 20:00	25.0	24.3
11/9/2006 21:00	28.4	24.8
11/9/2006 22:00	34.9	30.0
11/9/2006 23:00	23.6	30.2
11/10/2006 0:00	17.0	18.7
11/10/2006 1:00	10.6	15.5
11/10/2006 2:00	10.7	10.1
11/10/2006 3:00	10.8	8.9
11/10/2006 4:00	6.1	11.5
11/10/2006 5:00	8.5	13.3
11/10/2006 6:00	10.5	11.0
11/10/2006 7:00	10.3	7.1
11/10/2006 8:00	7.6	6.0
11/10/2006 9:00	6.2	9.2
11/10/2006 10:00	7.9	13.3
11/10/2006 11:00	10.0	12.1
11/10/2006 12:00	10.6	8.0
11/10/2006 13:00	9.0	7.6
11/10/2006 14:00	7.4	5.1
11/10/2006 15:00	8.2	1.7
11/10/2006 16:00	11.7	6.0
11/10/2006 17:00	15.1	9.6
11/10/2006 18:00	11.6	8.4
11/10/2006 19:00	7.6	10.9
11/10/2006 20:00	8.4	11.9
11/10/2006 21:00	8.6	8.5
11/10/2006 22:00	10.2	9.7
11/10/2006 23:00	11.8	10.9
11/11/2006 0:00	10.2	11.4
11/11/2006 1:00	9.7	11.1
11/11/2006 2:00	10.4	5.9
11/11/2006 3:00	11.9	5.6
11/11/2006 4:00	20.1	28.0

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/11/2006 5:00	14.5	34.2
11/11/2006 6:00	12.4	22.2
11/11/2006 7:00	10.3	19.0
11/11/2006 8:00	9.0	116.3
11/11/2006 9:00	8.1	3.0
11/11/2006 10:00	8.4	85.5
11/11/2006 11:00	7.3	<b>outlier removed</b>
11/11/2006 12:00	3.9	0.8
11/11/2006 13:00	5.6	25.3
11/11/2006 14:00	9.5	56.0
11/11/2006 15:00	8.1	52.5
11/11/2006 16:00	8.9	59.2
11/11/2006 17:00	8.7	28.0
11/11/2006 18:00	5.7	19.7
11/11/2006 19:00	8.0	5.5
11/11/2006 20:00	12.3	4.3
11/11/2006 21:00	10.4	7.4
11/11/2006 22:00	9.8	8.5
11/11/2006 23:00	11.1	7.4
11/12/2006 0:00	8.9	7.5
11/12/2006 1:00	9.7	9.1
11/12/2006 2:00	10.2	9.8
11/12/2006 3:00	11.8	7.5
11/12/2006 4:00	11.3	6.4
11/12/2006 5:00	9.4	4.8
11/12/2006 6:00	11.3	4.0
11/12/2006 7:00	8.5	4.6
11/12/2006 8:00	8.2	6.4
11/12/2006 9:00	11.7	6.5
11/12/2006 10:00	12.8	5.3
11/12/2006 11:00	9.4	5.0
11/12/2006 12:00	9.1	12.8
11/12/2006 13:00	12.5	12.1
11/12/2006 14:00	9.8	8.4
11/12/2006 15:00	5.2	4.3
11/12/2006 16:00	7.3	6.2
11/12/2006 17:00	12.4	8.1
11/12/2006 18:00	12.4	6.8
11/12/2006 19:00	9.8	6.8
11/12/2006 20:00	9.0	7.2
11/12/2006 21:00	8.6	12.7
11/12/2006 22:00	7.9	13.5
11/12/2006 23:00	8.3	9.9

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/13/2006 0:00	12.3	21.1
11/13/2006 1:00	22.7	10.9
11/13/2006 2:00	8.1	8.9
11/13/2006 3:00	9.2	8.7
11/13/2006 4:00	11.4	9.9
11/13/2006 5:00	13.1	9.1
11/13/2006 6:00	12.7	7.7
11/13/2006 7:00	12.8	7.8
11/13/2006 8:00	12.9	10.0
11/13/2006 9:00	11.6	10.8
11/13/2006 10:00	11.9	10.7
11/13/2006 11:00	12.6	13.5
11/13/2006 12:00	13.0	12.9
11/13/2006 13:00	11.7	8.3
11/13/2006 14:00	14.2	9.8
11/13/2006 15:00	21.5	13.7
11/13/2006 16:00	26.2	15.8
11/13/2006 17:00	19.0	20.2
11/13/2006 18:00	19.1	17.8
11/13/2006 19:00	25.5	17.8
11/13/2006 20:00	25.1	24.5
11/13/2006 21:00	18.7	22.0
11/13/2006 22:00	24.0	25.7
11/13/2006 23:00	27.7	24.7
11/14/2006 0:00	26.1	26.1
11/14/2006 1:00	30.9	20.6
11/14/2006 2:00	26.8	28.6
11/14/2006 3:00	27.8	34.6
11/14/2006 4:00	30.4	28.9
11/14/2006 5:00	33.5	31.0
11/14/2006 6:00	27.2	24.9
11/14/2006 7:00	27.6	22.5
11/14/2006 8:00	31.7	27.3
11/14/2006 9:00	31.3	30.7
11/14/2006 10:00	36.2	31.1
11/14/2006 11:00	46.8	34.4
11/14/2006 12:00	37.5	33.0
11/14/2006 13:00	34.5	34.9
11/14/2006 14:00	36.4	32.5
11/14/2006 15:00	26.7	32.8
11/14/2006 16:00	28.9	24.6
11/14/2006 17:00	35.2	26.3
11/14/2006 18:00	32.0	37.1

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/14/2006 19:00	30.9	36.1
11/14/2006 20:00	33.5	30.0
11/14/2006 21:00	39.5	38.5
11/14/2006 22:00	42.0	44.7
11/14/2006 23:00	39.3	37.3
11/15/2006 0:00	41.4	38.3
11/15/2006 1:00	36.6	35.4
11/15/2006 2:00	43.5	36.0
11/15/2006 3:00	34.8	36.2
11/15/2006 4:00	26.4	38.7
11/15/2006 5:00	32.4	33.4
11/15/2006 6:00	30.3	35.8
11/15/2006 7:00	28.8	28.7
11/15/2006 8:00	26.9	30.7
11/15/2006 9:00	25.6	34.8
11/15/2006 10:00	36.3	43.0
11/15/2006 11:00	38.0	37.0
11/15/2006 12:00	31.6	30.3
11/15/2006 13:00	30.3	22.1
11/15/2006 14:00	25.9	21.1
11/15/2006 15:00	34.3	30.1
11/15/2006 16:00	32.9	37.0
11/15/2006 17:00	30.1	33.6
11/15/2006 18:00	32.0	37.1
11/15/2006 19:00	22.7	30.4
11/15/2006 20:00	24.6	29.4
11/15/2006 21:00	30.0	30.7
11/15/2006 22:00	24.1	34.0
11/15/2006 23:00	33.4	33.8
11/16/2006 0:00	38.7	38.0
11/16/2006 1:00	34.4	35.9
11/16/2006 2:00	37.3	36.1
11/16/2006 3:00	31.1	30.9
11/16/2006 4:00	23.5	23.8
11/16/2006 5:00	26.1	30.6
11/16/2006 6:00	21.3	29.4
11/16/2006 7:00	17.7	29.1
11/16/2006 8:00	12.5	24.4
11/16/2006 9:00	7.1	<b>outlier removed</b>
11/16/2006 10:00	8.2	<b>outlier removed</b>
11/16/2006 11:00	8.6	<b>outlier removed</b>
11/16/2006 12:00	7.6	50.9
11/16/2006 13:00	7.5	56.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/16/2006 14:00	8.8	82.6
11/16/2006 15:00	5.9	42.8
11/16/2006 16:00	3.9	44.5
11/16/2006 17:00	7.9	43.5
11/16/2006 18:00	9.5	18.5
11/16/2006 19:00	6.8	21.7
11/16/2006 20:00	8.7	27.1
11/16/2006 21:00	12.0	47.9
11/16/2006 22:00	9.8	84.1
11/16/2006 23:00	9.3	74.3
11/17/2006 0:00	10.8	53.9
11/17/2006 1:00	11.6	45.2
11/17/2006 2:00	10.4	42.7
11/17/2006 3:00	7.1	30.5
11/17/2006 4:00	6.6	29.9
11/17/2006 5:00	12.9	25.2
11/17/2006 6:00	17.5	20.9
11/17/2006 7:00	12.3	6.7
11/17/2006 8:00	8.0	6.1
11/17/2006 9:00	10.2	7.1
11/17/2006 10:00	13.1	8.9
11/17/2006 11:00	13.5	7.9
11/17/2006 12:00	13.5	8.4
11/17/2006 13:00	12.9	10.5
11/17/2006 14:00	12.7	8.8
11/17/2006 15:00	15.4	7.6
11/17/2006 16:00	13.1	9.4
11/17/2006 17:00	10.9	11.3
11/17/2006 18:00	11.5	10.7
11/17/2006 19:00	10.5	10.3
11/17/2006 20:00	12.8	13.4
11/17/2006 21:00	17.0	16.0
11/17/2006 22:00	20.9	15.0
11/17/2006 23:00	22.5	16.3
11/18/2006 0:00	17.4	18.1
11/18/2006 1:00	17.2	21.3
11/18/2006 2:00	20.5	20.6
11/18/2006 3:00	16.1	21.1
11/18/2006 4:00	24.3	16.4
11/18/2006 5:00	23.0	16.6
11/18/2006 6:00	25.8	18.1
11/18/2006 7:00	22.8	21.1
11/18/2006 8:00	19.7	23.4

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/18/2006 9:00	22.8	15.4
11/18/2006 10:00	22.1	26.4
11/18/2006 11:00	24.0	27.9
11/18/2006 12:00	25.5	23.1
11/18/2006 13:00	19.4	20.1
11/18/2006 14:00	17.2	19.5
11/18/2006 15:00	17.0	14.0
11/18/2006 16:00	18.7	14.9
11/18/2006 17:00	18.2	23.8
11/18/2006 18:00	22.5	21.7
11/18/2006 19:00	16.5	26.8
11/18/2006 20:00	15.4	16.9
11/18/2006 21:00	17.1	17.1
11/18/2006 22:00	16.0	14.5
11/18/2006 23:00	15.0	11.2
11/19/2006 0:00	15.6	12.1
11/19/2006 1:00	14.2	12.7
11/19/2006 2:00	20.9	14.2
11/19/2006 3:00	19.3	15.1
11/19/2006 4:00	16.9	13.8
11/19/2006 5:00	14.8	13.4
11/19/2006 6:00	15.4	12.4
11/19/2006 7:00	20.2	11.9
11/19/2006 8:00	16.8	12.5
11/19/2006 9:00	15.7	11.5
11/19/2006 10:00	11.1	12.0
11/19/2006 11:00	9.8	12.5
11/19/2006 12:00	9.3	9.3
11/19/2006 13:00	7.1	7.7
11/19/2006 14:00	8.9	8.8
11/19/2006 15:00	11.3	10.7
11/19/2006 16:00	9.5	12.0
11/19/2006 17:00	8.3	9.9
11/19/2006 18:00	9.6	8.7
11/19/2006 19:00	11.2	8.1
11/19/2006 20:00	14.1	9.4
11/19/2006 21:00	13.0	10.3
11/19/2006 22:00	9.3	4.5
11/19/2006 23:00	8.2	3.9
11/20/2006 0:00	11.4	8.3
11/20/2006 1:00	12.0	6.7
11/20/2006 2:00	9.9	7.6
11/20/2006 3:00	9.5	11.7

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/20/2006 4:00	10.0	10.6
11/20/2006 5:00	11.5	11.3
11/20/2006 6:00	10.3	11.2
11/20/2006 7:00	9.8	6.2
11/20/2006 8:00	10.7	6.0
11/20/2006 9:00	10.2	8.1
11/20/2006 10:00	12.0	11.2
11/20/2006 11:00	10.1	13.3
11/20/2006 12:00	9.8	11.2
11/20/2006 13:00	12.9	9.3
11/20/2006 14:00	14.5	4.7
11/20/2006 15:00	10.0	0.9
11/20/2006 16:00	5.2	1.9
11/20/2006 17:00	9.6	6.0
11/20/2006 18:00	12.9	8.6
11/20/2006 19:00	14.3	11.6
11/20/2006 20:00	13.7	16.1
11/20/2006 21:00	12.5	16.4
11/20/2006 22:00	12.5	13.6
11/20/2006 23:00	15.1	11.0
11/21/2006 0:00	14.8	10.9
11/21/2006 1:00	12.2	9.4
11/21/2006 2:00	13.3	8.1
11/21/2006 3:00	11.8	11.4
11/21/2006 4:00	11.4	11.9
11/21/2006 5:00	20.2	10.7
11/21/2006 6:00	20.8	11.8
11/21/2006 7:00	22.3	15.2
11/21/2006 8:00	17.6	17.4
11/21/2006 9:00	20.8	14.9
11/21/2006 10:00	25.8	14.8
11/21/2006 11:00	20.7	16.6
11/21/2006 12:00	14.0	15.6
11/21/2006 13:00	13.8	13.4
11/21/2006 14:00	15.5	10.6
11/21/2006 15:00	12.7	5.7
11/21/2006 16:00	9.3	7.1
11/21/2006 17:00	13.4	12.7
11/21/2006 18:00	16.1	12.9
11/21/2006 19:00	22.0	9.9
11/21/2006 20:00	23.2	11.2
11/21/2006 21:00	23.4	19.9
11/21/2006 22:00	17.2	25.8

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/21/2006 23:00	25.0	26.2
11/22/2006 0:00	26.2	15.1
11/22/2006 1:00	13.7	16.0
11/22/2006 2:00	14.8	21.8
11/22/2006 3:00	17.0	24.0
11/22/2006 4:00	22.0	19.4
11/22/2006 5:00	23.5	21.0
11/22/2006 6:00	20.3	26.7
11/22/2006 7:00	32.4	24.4
11/22/2006 8:00	20.3	31.2
11/22/2006 9:00	31.6	26.7
11/22/2006 10:00	31.4	38.0
11/22/2006 11:00	32.5	32.5
11/22/2006 12:00	35.6	22.0
11/22/2006 13:00	28.7	24.8
11/22/2006 14:00	27.0	16.3
11/22/2006 15:00	24.3	17.3
11/22/2006 16:00	13.8	15.6
11/22/2006 17:00	14.9	11.4
11/22/2006 18:00	13.2	10.4
11/22/2006 19:00	13.5	13.9
11/22/2006 20:00	24.4	31.6
11/22/2006 21:00	22.3	41.8
11/22/2006 22:00	33.8	44.1
11/22/2006 23:00	32.4	46.3
11/23/2006 0:00	37.3	45.0
11/23/2006 1:00	38.7	51.5
11/23/2006 2:00	41.8	40.2
11/23/2006 3:00	46.2	39.2
11/23/2006 4:00	37.5	39.0
11/23/2006 5:00	40.7	40.0
11/23/2006 6:00	35.0	39.5
11/23/2006 7:00	38.3	38.6
11/23/2006 8:00	49.8	44.3
11/23/2006 9:00	46.8	42.8
11/23/2006 10:00	36.1	32.3
11/23/2006 11:00	39.7	34.6
11/23/2006 12:00	25.0	27.1
11/23/2006 13:00	24.9	17.2
11/23/2006 14:00	27.2	27.6
11/23/2006 15:00	44.8	28.7
11/23/2006 16:00	41.9	36.8
11/23/2006 17:00	38.3	36.3



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/23/2006 18:00	37.4	30.3
11/23/2006 19:00	37.4	48.2
11/23/2006 20:00	47.8	48.2
11/23/2006 21:00	25.8	27.9
11/23/2006 22:00	20.5	25.7
11/23/2006 23:00	23.9	23.8
11/24/2006 0:00	25.6	20.3
11/24/2006 1:00	27.1	25.3
11/24/2006 2:00	26.2	22.0
11/24/2006 3:00	24.0	19.9
11/24/2006 4:00	22.5	21.7
11/24/2006 5:00	24.3	15.0
11/24/2006 6:00	29.2	15.9
11/24/2006 7:00	20.6	17.3
11/24/2006 8:00	22.2	18.4
11/24/2006 9:00	22.0	16.6
11/24/2006 10:00	16.0	<b>outlier removed</b>
11/24/2006 11:00	13.5	9.8
11/24/2006 12:00	14.5	13.6
11/24/2006 13:00	28.1	17.3
11/24/2006 14:00	25.2	16.8
11/24/2006 15:00	19.9	14.5
11/24/2006 16:00	22.1	14.3
11/24/2006 17:00	23.1	21.3
11/24/2006 18:00	30.1	33.8
11/24/2006 19:00	26.3	45.0
11/24/2006 20:00	40.7	50.9
11/24/2006 21:00	40.8	34.4
11/24/2006 22:00	23.3	25.9
11/24/2006 23:00	19.7	30.5
11/25/2006 0:00	32.3	30.4
11/25/2006 1:00	35.5	27.4
11/25/2006 2:00	27.1	21.9
11/25/2006 3:00	29.4	27.0
11/25/2006 4:00	20.5	29.1
11/25/2006 5:00	23.8	24.3
11/25/2006 6:00	32.1	28.0
11/25/2006 7:00	25.3	25.7
11/25/2006 8:00	25.6	27.9
11/25/2006 9:00	29.2	26.2
11/25/2006 10:00	22.3	20.0
11/25/2006 11:00	18.6	22.2
11/25/2006 12:00	24.8	18.5

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/25/2006 13:00	25.0	18.0
11/25/2006 14:00	29.9	23.3
11/25/2006 15:00	21.9	19.7
11/25/2006 16:00	18.5	20.4
11/25/2006 17:00	26.3	25.9
11/25/2006 18:00	25.3	34.5
11/25/2006 19:00	20.2	35.1
11/25/2006 20:00	32.7	29.1
11/25/2006 21:00	35.8	24.3
11/25/2006 22:00	33.4	23.0
11/25/2006 23:00	29.4	27.2
11/26/2006 0:00	31.6	33.1
11/26/2006 1:00	28.2	30.4
11/26/2006 2:00	26.1	30.5
11/26/2006 3:00	28.1	29.2
11/26/2006 4:00	31.7	28.4
11/26/2006 5:00	31.3	28.7
11/26/2006 6:00	23.8	28.1
11/26/2006 7:00	30.3	28.7
11/26/2006 8:00	32.0	38.9
11/26/2006 9:00	32.4	33.5
11/26/2006 10:00	33.5	33.3
11/26/2006 11:00	34.0	29.2
11/26/2006 12:00	33.4	27.1
11/26/2006 13:00	38.5	30.9
11/26/2006 14:00	37.3	28.4
11/26/2006 15:00	31.9	32.7
11/26/2006 16:00	31.9	37.1
11/26/2006 17:00	35.2	29.9
11/26/2006 18:00	38.5	36.7
11/26/2006 19:00	32.7	46.2
11/26/2006 20:00	42.3	46.0
11/26/2006 21:00	48.7	48.7
11/26/2006 22:00	52.3	44.8
11/26/2006 23:00	47.7	44.2
11/27/2006 0:00	54.3	46.8
11/27/2006 1:00	48.9	46.0
11/27/2006 2:00	50.0	48.6
11/27/2006 3:00	52.3	44.1
11/27/2006 4:00	48.8	43.5
11/27/2006 5:00	50.7	44.1
11/27/2006 6:00	59.2	48.4
11/27/2006 7:00	54.2	45.4

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/27/2006 8:00	49.8	49.1
11/27/2006 9:00	51.9	47.0
11/27/2006 10:00	48.0	38.3
11/27/2006 11:00	43.6	39.8
11/27/2006 12:00	38.3	38.0
11/27/2006 13:00	41.7	38.2
11/27/2006 14:00	36.9	27.3
11/27/2006 15:00	31.1	31.2
11/27/2006 16:00	33.4	37.8
11/27/2006 17:00	33.5	29.9
11/27/2006 18:00	37.8	39.0
11/27/2006 19:00	45.7	35.3
11/27/2006 20:00	39.5	33.7
11/27/2006 21:00	41.6	33.2
11/27/2006 22:00	40.5	38.1
11/27/2006 23:00	45.4	42.7
11/28/2006 0:00	43.4	32.4
11/28/2006 1:00	48.6	39.7
11/28/2006 2:00	35.1	32.1
11/28/2006 3:00	36.9	40.4
11/28/2006 4:00	36.5	42.4
11/28/2006 5:00	40.5	39.5
11/28/2006 6:00	44.1	41.1
11/28/2006 7:00	36.7	38.6
11/28/2006 8:00	37.2	36.8
11/28/2006 9:00	31.1	31.1
11/28/2006 10:00	28.7	29.8
11/28/2006 11:00	28.8	25.4
11/28/2006 12:00	25.6	14.0
11/28/2006 13:00	32.1	14.6
11/28/2006 14:00	25.2	21.1
11/28/2006 15:00	21.9	20.5
11/28/2006 16:00	18.3	18.8
11/28/2006 17:00	22.1	19.9
11/28/2006 18:00	29.2	19.9
11/28/2006 19:00	26.3	25.4
11/28/2006 20:00	29.0	24.0
11/28/2006 21:00	24.6	25.0
11/28/2006 22:00	26.4	20.2
11/28/2006 23:00	22.7	20.5
11/29/2006 0:00	23.8	21.2
11/29/2006 1:00	25.8	22.0
11/29/2006 2:00	26.8	23.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/29/2006 3:00	20.3	27.4
11/29/2006 4:00	21.7	19.9
11/29/2006 5:00	26.7	19.8
11/29/2006 6:00	21.5	26.2
11/29/2006 7:00	29.1	26.1
11/29/2006 8:00	21.9	22.3
11/29/2006 9:00	29.2	27.4
11/29/2006 10:00	24.2	29.6
11/29/2006 11:00	25.2	21.6
11/29/2006 12:00	28.9	23.3
11/29/2006 13:00	24.8	27.1
11/29/2006 14:00	30.6	20.8
11/29/2006 15:00	21.1	16.6
11/29/2006 16:00	23.7	20.0
11/29/2006 17:00	20.6	21.2
11/29/2006 18:00	26.6	19.3
11/29/2006 19:00	29.2	29.3
11/29/2006 20:00	32.3	25.2
11/29/2006 21:00	30.5	29.2
11/29/2006 22:00	30.7	24.5
11/29/2006 23:00	23.5	26.5
11/30/2006 0:00	21.9	18.6
11/30/2006 1:00	25.2	22.5
11/30/2006 2:00	20.4	16.4
11/30/2006 3:00	19.0	17.4
11/30/2006 4:00	16.8	20.3
11/30/2006 5:00	16.2	11.0
11/30/2006 6:00	20.1	13.8
11/30/2006 7:00	13.3	22.4
11/30/2006 8:00	15.4	17.8
11/30/2006 9:00	17.1	17.3
11/30/2006 10:00	14.6	12.1
11/30/2006 11:00	9.3	10.6
11/30/2006 12:00	6.2	14.4
11/30/2006 13:00	6.4	12.0
11/30/2006 14:00	5.1	8.2
11/30/2006 15:00	7.6	25.8
11/30/2006 16:00	7.9	21.0
11/30/2006 17:00	4.8	11.8
11/30/2006 18:00	4.0	13.0
11/30/2006 19:00	7.8	24.5
11/30/2006 20:00	9.1	10.2
11/30/2006 21:00	8.5	12.3

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
11/30/2006 22:00	10.2	12.3
11/30/2006 23:00	8.2	139.5
12/1/2006 0:00	8.2	outlier removed
12/1/2006 1:00	7.8	45.9
12/1/2006 2:00	8.3	outlier removed
12/1/2006 3:00	9.5	outlier removed
12/1/2006 4:00	11.0	outlier removed
12/1/2006 5:00	10.2	outlier removed
12/1/2006 6:00	5.6	outlier removed
12/1/2006 7:00	8.2	outlier removed
12/1/2006 8:00	11.1	outlier removed
12/1/2006 9:00	7.4	outlier removed
12/1/2006 10:00	7.0	outlier removed
12/1/2006 11:00	6.5	outlier removed
12/1/2006 12:00	3.8	outlier removed
12/1/2006 13:00	3.9	outlier removed
12/1/2006 14:00	5.6	outlier removed
12/1/2006 15:00	7.4	outlier removed
12/1/2006 16:00	10.8	outlier removed
12/1/2006 17:00	11.1	outlier removed
12/1/2006 18:00	4.8	outlier removed
12/1/2006 19:00	5.0	52.5
12/1/2006 20:00	10.3	19.1
12/1/2006 21:00	10.8	23.2
12/1/2006 22:00	12.1	16.1
12/1/2006 23:00	9.8	14.2
12/2/2006 0:00	6.7	20.9
12/2/2006 1:00	9.8	16.6
12/2/2006 2:00	9.9	18.1
12/2/2006 3:00	9.5	17.2
12/2/2006 4:00	12.7	17.0
12/2/2006 5:00	15.8	17.3
12/2/2006 6:00	17.8	11.3
12/2/2006 7:00	15.1	11.0
12/2/2006 8:00	13.5	12.2
12/2/2006 9:00	17.4	12.3
12/2/2006 10:00	18.2	13.8
12/2/2006 11:00	17.1	11.7
12/2/2006 12:00	20.6	13.2
12/2/2006 13:00	15.0	15.8
12/2/2006 14:00	21.1	17.5
12/2/2006 15:00	15.6	19.2
12/2/2006 16:00	17.6	20.9

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/2/2006 17:00	18.4	23.6
12/2/2006 18:00	22.3	23.0
12/2/2006 19:00	19.5	19.6
12/2/2006 20:00	17.7	25.4
12/2/2006 21:00	17.6	18.1
12/2/2006 22:00	18.7	18.6
12/2/2006 23:00	23.2	16.6
12/3/2006 0:00	17.9	11.0
12/3/2006 1:00	21.5	21.7
12/3/2006 2:00	27.1	21.1
12/3/2006 3:00	18.0	17.7
12/3/2006 4:00	24.2	18.4
12/3/2006 5:00	21.5	22.9
12/3/2006 6:00	15.0	20.9
12/3/2006 7:00	12.7	15.8
12/3/2006 8:00	12.3	16.0
12/3/2006 9:00	14.5	12.9
12/3/2006 10:00	15.0	10.3
12/3/2006 11:00	13.4	13.5
12/3/2006 12:00	11.6	13.5
12/3/2006 13:00	10.0	11.4
12/3/2006 14:00	10.4	10.1
12/3/2006 15:00	13.3	9.2
12/3/2006 16:00	16.0	12.4
12/3/2006 17:00	17.9	13.8
12/3/2006 18:00	16.3	13.4
12/3/2006 19:00	16.7	14.2
12/3/2006 20:00	20.1	15.0
12/3/2006 21:00	15.6	12.5
12/3/2006 22:00	16.7	11.4
12/3/2006 23:00	16.1	13.6
12/4/2006 0:00	16.3	12.2
12/4/2006 1:00	19.9	11.0
12/4/2006 2:00	14.7	13.1
12/4/2006 3:00	15.8	13.6
12/4/2006 4:00	12.5	14.4
12/4/2006 5:00	10.8	14.3
12/4/2006 6:00	15.4	12.1
12/4/2006 7:00	17.1	11.2
12/4/2006 8:00	20.2	12.1
12/4/2006 9:00	15.4	11.3
12/4/2006 10:00	14.3	13.4
12/4/2006 11:00	15.9	16.5

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/4/2006 12:00	18.8	16.2
12/4/2006 13:00	21.2	16.3
12/4/2006 14:00	13.6	16.8
12/4/2006 15:00	14.3	15.4
12/4/2006 16:00	13.6	11.2
12/4/2006 17:00	14.4	9.7
12/4/2006 18:00	15.8	12.1
12/4/2006 19:00	16.5	13.8
12/4/2006 20:00	18.2	13.5
12/4/2006 21:00	21.9	13.5
12/4/2006 22:00	20.0	15.5
12/4/2006 23:00	17.3	17.6
12/5/2006 0:00	20.7	17.1
12/5/2006 1:00	21.6	25.7
12/5/2006 2:00	25.1	21.8
12/5/2006 3:00	19.0	16.1
12/5/2006 4:00	20.5	16.1
12/5/2006 5:00	19.5	17.7
12/5/2006 6:00	23.0	18.6
12/5/2006 7:00	30.5	18.6
12/5/2006 8:00	20.5	18.8
12/5/2006 9:00	24.7	19.8
12/5/2006 10:00	28.3	19.5
12/5/2006 11:00	20.2	15.7
12/5/2006 12:00	11.8	10.6
12/5/2006 13:00	14.5	10.2
12/5/2006 14:00	16.3	13.4
12/5/2006 15:00	17.6	15.3
12/5/2006 16:00	19.8	14.0
12/5/2006 17:00	17.9	14.3
12/5/2006 18:00	28.4	19.9
12/5/2006 19:00	21.1	15.1
12/5/2006 20:00	20.0	15.8
12/5/2006 21:00	22.8	16.6
12/5/2006 22:00	17.5	15.8
12/5/2006 23:00	21.9	15.5
12/6/2006 0:00	18.1	16.8
12/6/2006 1:00	18.4	17.8
12/6/2006 2:00	22.7	20.7
12/6/2006 3:00	18.9	16.7
12/6/2006 4:00	24.0	16.6
12/6/2006 5:00	20.0	20.9
12/6/2006 6:00	17.1	19.1

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/6/2006 7:00	22.9	21.2
12/6/2006 8:00	26.1	18.4
12/6/2006 9:00	30.6	20.2
12/6/2006 10:00	23.6	18.6
12/6/2006 11:00	20.6	23.5
12/6/2006 12:00	28.2	25.5
12/6/2006 13:00	24.6	18.3
12/6/2006 14:00	21.3	18.5
12/6/2006 15:00	17.7	17.5
12/6/2006 16:00	24.3	17.6
12/6/2006 17:00	24.3	18.6
12/6/2006 18:00	22.0	20.1
12/6/2006 19:00	24.2	19.7
12/6/2006 20:00	24.0	21.5
12/6/2006 21:00	12.4	16.6
12/6/2006 22:00	13.8	17.9
12/6/2006 23:00	24.2	20.9
12/7/2006 0:00	20.8	20.5
12/7/2006 1:00	18.6	16.4
12/7/2006 2:00	16.6	15.8
12/7/2006 3:00	16.5	15.1
12/7/2006 4:00	17.8	9.9
12/7/2006 5:00	14.6	4.9
12/7/2006 6:00	13.5	8.3
12/7/2006 7:00	14.3	11.6
12/7/2006 8:00	15.4	9.7
12/7/2006 9:00	16.5	8.7
12/7/2006 10:00	13.1	8.2
12/7/2006 11:00	9.4	8.6
12/7/2006 12:00	8.2	9.2
12/7/2006 13:00	9.5	6.7
12/7/2006 14:00	11.2	6.1
12/7/2006 15:00	9.3	7.2
12/7/2006 16:00	6.2	10.1
12/7/2006 17:00	9.1	11.2
12/7/2006 18:00	9.5	10.1
12/7/2006 19:00	8.7	9.9
12/7/2006 20:00	13.8	8.2
12/7/2006 21:00	15.5	7.2
12/7/2006 22:00	17.3	12.4
12/7/2006 23:00	18.6	13.1
12/8/2006 0:00	18.3	13.4
12/8/2006 1:00	17.3	10.4



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/8/2006 2:00	14.4	5.3
12/8/2006 3:00	12.7	6.8
12/8/2006 4:00	12.1	6.3
12/8/2006 5:00	12.1	7.2
12/8/2006 6:00	14.3	7.8
12/8/2006 7:00	13.2	7.9
12/8/2006 8:00	12.7	7.3
12/8/2006 9:00	12.7	6.8
12/8/2006 10:00	11.6	7.1
12/8/2006 11:00	12.7	6.2
12/8/2006 12:00	15.3	4.4
12/8/2006 13:00	13.7	4.0
12/8/2006 14:00	11.6	6.9
12/8/2006 15:00	14.2	8.5
12/8/2006 16:00	15.7	13.2
12/8/2006 17:00	15.2	14.3
12/8/2006 18:00	13.9	11.6
12/8/2006 19:00	15.6	13.2
12/8/2006 20:00	16.1	13.2
12/8/2006 21:00	13.5	11.7
12/8/2006 22:00	12.4	11.2
12/8/2006 23:00	16.0	10.3
12/9/2006 0:00	17.2	10.7
12/9/2006 1:00	12.9	13.3
12/9/2006 2:00	15.0	13.5
12/9/2006 3:00	19.4	13.6
12/9/2006 4:00	16.2	10.9
12/9/2006 5:00	13.8	12.1
12/9/2006 6:00	22.1	17.3
12/9/2006 7:00	15.8	15.9
12/9/2006 8:00	17.2	14.0
12/9/2006 9:00	17.1	14.0
12/9/2006 10:00	20.2	13.6
12/9/2006 11:00	23.4	16.3
12/9/2006 12:00	23.0	15.6
12/9/2006 13:00	17.7	11.4
12/9/2006 14:00	16.9	11.7
12/9/2006 15:00	16.9	13.7
12/9/2006 16:00	17.9	12.9
12/9/2006 17:00	15.4	13.6
12/9/2006 18:00	14.4	16.8
12/9/2006 19:00	20.8	17.2
12/9/2006 20:00	14.5	16.5

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/9/2006 21:00	16.9	24.1
12/9/2006 22:00	18.5	21.4
12/9/2006 23:00	18.4	9.0
12/10/2006 0:00	20.6	11.6
12/10/2006 1:00	14.1	15.2
12/10/2006 2:00	14.8	15.3
12/10/2006 3:00	20.2	14.0
12/10/2006 4:00	18.2	12.8
12/10/2006 5:00	15.1	14.2
12/10/2006 6:00	14.8	14.9
12/10/2006 7:00	17.7	15.3
12/10/2006 8:00	15.9	15.5
12/10/2006 9:00	13.7	11.2
12/10/2006 10:00	15.0	10.7
12/10/2006 11:00	14.0	12.6
12/10/2006 12:00	10.9	13.1
12/10/2006 13:00	13.5	11.7
12/10/2006 14:00	16.4	9.7
12/10/2006 15:00	20.0	10.1
12/10/2006 16:00	10.2	13.8
12/10/2006 17:00	6.4	14.6
12/10/2006 18:00	8.5	13.6
12/10/2006 19:00	12.3	13.9
12/10/2006 20:00	9.9	15.3
12/10/2006 21:00	12.7	16.3
12/10/2006 22:00	15.6	13.3
12/10/2006 23:00	16.9	15.5
12/11/2006 0:00	15.8	17.3
12/11/2006 1:00	21.0	14.0
12/11/2006 2:00	15.0	15.3
12/11/2006 3:00	17.5	17.3
12/11/2006 4:00	19.9	16.4
12/11/2006 5:00	18.6	22.0
12/11/2006 6:00	21.2	18.1
12/11/2006 7:00	18.5	19.9
12/11/2006 8:00	20.2	17.7
12/11/2006 9:00	20.8	17.9
12/11/2006 10:00	21.0	22.5
12/11/2006 11:00	<b>outlier removed</b>	20.5
12/11/2006 12:00	24.7	19.1
12/11/2006 13:00	22.8	20.8
12/11/2006 14:00	27.2	21.8
12/11/2006 15:00	23.8	21.5

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/11/2006 16:00	25.8	24.8
12/11/2006 17:00	25.4	20.7
12/11/2006 18:00	25.8	22.3
12/11/2006 19:00	26.1	31.2
12/11/2006 20:00	21.6	26.4
12/11/2006 21:00	25.7	24.4
12/11/2006 22:00	22.1	21.8
12/11/2006 23:00	20.2	24.4
12/12/2006 0:00	34.5	30.7
12/12/2006 1:00	27.3	25.9
12/12/2006 2:00	16.9	20.7
12/12/2006 3:00	25.4	21.4
12/12/2006 4:00	20.1	24.8
12/12/2006 5:00	20.0	19.4
12/12/2006 6:00	20.6	24.0
12/12/2006 7:00	19.7	20.9
12/12/2006 8:00	22.5	19.6
12/12/2006 9:00	21.9	21.1
12/12/2006 10:00	30.1	17.2
12/12/2006 11:00	24.6	15.1
12/12/2006 12:00	20.1	15.6
12/12/2006 13:00	20.2	17.0
12/12/2006 14:00	16.5	16.1
12/12/2006 15:00	15.5	17.4
12/12/2006 16:00	20.4	25.0
12/12/2006 17:00	19.2	23.0
12/12/2006 18:00	17.9	20.3
12/12/2006 19:00	15.4	16.3
12/12/2006 20:00	13.2	36.7
12/12/2006 21:00	14.9	17.1
12/12/2006 22:00	14.8	28.1
12/12/2006 23:00	13.1	27.1
12/13/2006 0:00	15.2	22.7
12/13/2006 1:00	21.2	25.3
12/13/2006 2:00	20.3	29.1
12/13/2006 3:00	18.4	34.1
12/13/2006 4:00	20.5	26.7
12/13/2006 5:00	17.7	29.3
12/13/2006 6:00	18.0	27.9
12/13/2006 7:00	18.4	24.8
12/13/2006 8:00	17.3	23.0
12/13/2006 9:00	16.2	20.2
12/13/2006 10:00	15.6	21.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/13/2006 11:00	20.9	18.4
12/13/2006 12:00	19.0	24.4
12/13/2006 13:00	17.7	21.0
12/13/2006 14:00	20.2	22.5
12/13/2006 15:00	18.2	21.2
12/13/2006 16:00	22.7	22.6
12/13/2006 17:00	24.0	28.9
12/13/2006 18:00	26.1	28.8
12/13/2006 19:00	27.8	32.4
12/13/2006 20:00	26.4	29.5
12/13/2006 21:00	29.6	30.6
12/13/2006 22:00	27.1	29.2
12/13/2006 23:00	39.1	25.7
12/14/2006 0:00	30.4	23.5
12/14/2006 1:00	23.9	23.6
12/14/2006 2:00	28.2	27.9
12/14/2006 3:00	27.1	27.0
12/14/2006 4:00	30.8	30.1
12/14/2006 5:00	31.8	24.4
12/14/2006 6:00	25.0	36.2
12/14/2006 7:00	25.6	31.1
12/14/2006 8:00	26.8	29.8
12/14/2006 9:00	26.5	23.4
12/14/2006 10:00	21.1	26.0
12/14/2006 11:00	26.3	25.8
12/14/2006 12:00	27.9	26.8
12/14/2006 13:00	22.0	20.1
12/14/2006 14:00	20.9	18.2
12/14/2006 15:00	24.4	18.7
12/14/2006 16:00	17.0	21.2
12/14/2006 17:00	16.2	14.1
12/14/2006 18:00	14.1	12.8
12/14/2006 19:00	12.1	13.8
12/14/2006 20:00	13.9	15.4
12/14/2006 21:00	17.1	13.5
12/14/2006 22:00	16.2	14.6
12/14/2006 23:00	12.5	16.6
12/15/2006 0:00	13.3	17.9
12/15/2006 1:00	17.8	19.6
12/15/2006 2:00	20.2	19.1
12/15/2006 3:00	18.7	19.0
12/15/2006 4:00	18.7	17.6
12/15/2006 5:00	16.1	13.4

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/15/2006 6:00	11.2	10.9
12/15/2006 7:00	8.6	10.0
12/15/2006 8:00	9.0	9.2
12/15/2006 9:00	10.5	11.8
12/15/2006 10:00	11.0	12.1
12/15/2006 11:00	9.7	11.4
12/15/2006 12:00	13.6	13.7
12/15/2006 13:00	13.9	13.5
12/15/2006 14:00	12.7	12.1
12/15/2006 15:00	13.5	10.0
12/15/2006 16:00	12.4	8.9
12/15/2006 17:00	11.7	8.3
12/15/2006 18:00	10.6	8.1
12/15/2006 19:00	9.7	9.7
12/15/2006 20:00	11.7	8.3
12/15/2006 21:00	12.5	10.9
12/15/2006 22:00	8.3	11.7
12/15/2006 23:00	5.1	7.5
12/16/2006 0:00	5.8	9.0
12/16/2006 1:00	7.4	11.3
12/16/2006 2:00	9.7	10.5
12/16/2006 3:00	11.7	11.6
12/16/2006 4:00	12.1	15.9
12/16/2006 5:00	20.4	18.3
12/16/2006 6:00	15.6	17.9
12/16/2006 7:00	17.0	15.7
12/16/2006 8:00	16.7	15.0
12/16/2006 9:00	14.1	15.3
12/16/2006 10:00	14.0	13.1
12/16/2006 11:00	15.9	9.5
12/16/2006 12:00	15.0	9.7
12/16/2006 13:00	13.5	9.5
12/16/2006 14:00	12.1	11.6
12/16/2006 15:00	14.4	15.0
12/16/2006 16:00	19.0	21.6
12/16/2006 17:00	18.9	22.6
12/16/2006 18:00	18.2	15.5
12/16/2006 19:00	20.8	21.8
12/16/2006 20:00	20.4	20.7
12/16/2006 21:00	20.6	12.4
12/16/2006 22:00	11.9	19.8
12/16/2006 23:00	14.8	18.0
12/17/2006 0:00	18.3	21.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/17/2006 1:00	26.2	22.8
12/17/2006 2:00	26.0	22.5
12/17/2006 3:00	25.2	27.7
12/17/2006 4:00	26.9	24.4
12/17/2006 5:00	25.0	30.7
12/17/2006 6:00	24.7	32.4
12/17/2006 7:00	31.6	32.4
12/17/2006 8:00	36.7	33.9
12/17/2006 9:00	34.5	33.7
12/17/2006 10:00	27.8	35.1
12/17/2006 11:00	28.9	32.6
12/17/2006 12:00	19.4	20.2
12/17/2006 13:00	19.1	21.0
12/17/2006 14:00	33.0	36.2
12/17/2006 15:00	35.7	42.9
12/17/2006 16:00	31.2	35.7
12/17/2006 17:00	22.9	28.0
12/17/2006 18:00	29.0	27.2
12/17/2006 19:00	22.5	32.4
12/17/2006 20:00	23.4	22.7
12/17/2006 21:00	17.9	27.4
12/17/2006 22:00	25.8	19.6
12/17/2006 23:00	18.3	23.3
12/18/2006 0:00	18.5	17.0
12/18/2006 1:00	18.4	17.2
12/18/2006 2:00	17.1	16.6
12/18/2006 3:00	14.3	14.0
12/18/2006 4:00	11.8	22.2
12/18/2006 5:00	11.7	15.4
12/18/2006 6:00	11.3	12.9
12/18/2006 7:00	11.4	9.0
12/18/2006 8:00	12.3	20.8
12/18/2006 9:00	12.0	14.4
12/18/2006 10:00	15.1	13.8
12/18/2006 11:00	19.0	13.9
12/18/2006 12:00	18.3	15.4
12/18/2006 13:00	14.7	13.3
12/18/2006 14:00	13.5	13.1
12/18/2006 15:00	12.7	14.3
12/18/2006 16:00	14.0	14.4
12/18/2006 17:00	14.6	15.8
12/18/2006 18:00	13.8	17.2
12/18/2006 19:00	14.7	18.7

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/18/2006 20:00	12.2	17.4
12/18/2006 21:00	12.8	17.3
12/18/2006 22:00	22.3	18.5
12/18/2006 23:00	30.4	18.3
12/19/2006 0:00	25.6	22.6
12/19/2006 1:00	21.3	23.5
12/19/2006 2:00	22.3	19.6
12/19/2006 3:00	21.5	26.9
12/19/2006 4:00	21.5	21.7
12/19/2006 5:00	15.0	13.6
12/19/2006 6:00	24.0	30.7
12/19/2006 7:00	32.7	25.2
12/19/2006 8:00	25.6	24.5
12/19/2006 9:00	21.5	22.5
12/19/2006 10:00	25.8	22.0
12/19/2006 11:00	27.1	26.6
12/19/2006 12:00	28.4	20.0
12/19/2006 13:00	16.7	17.2
12/19/2006 14:00	17.3	14.3
12/19/2006 15:00	15.9	11.9
12/19/2006 16:00	14.4	10.6
12/19/2006 17:00	12.3	9.0
12/19/2006 18:00	20.3	10.7
12/19/2006 19:00	22.4	24.2
12/19/2006 20:00	24.2	19.5
12/19/2006 21:00	21.0	17.5
12/19/2006 22:00	20.0	21.1
12/19/2006 23:00	19.0	24.2
12/20/2006 0:00	21.2	20.3
12/20/2006 1:00	20.9	21.0
12/20/2006 2:00	24.2	19.0
12/20/2006 3:00	22.7	23.6
12/20/2006 4:00	25.8	23.8
12/20/2006 5:00	27.6	21.6
12/20/2006 6:00	30.1	28.9
12/20/2006 7:00	26.1	22.4
12/20/2006 8:00	25.4	27.9
12/20/2006 9:00	29.0	27.7
12/20/2006 10:00	31.2	26.1
12/20/2006 11:00	25.9	30.6
12/20/2006 12:00	29.7	22.9
12/20/2006 13:00	23.2	22.7
12/20/2006 14:00	25.7	19.1

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/20/2006 15:00	24.2	20.0
12/20/2006 16:00	28.4	25.5
12/20/2006 17:00	34.3	35.2
12/20/2006 18:00	34.6	36.3
12/20/2006 19:00	26.1	31.6
12/20/2006 20:00	36.0	34.0
12/20/2006 21:00	33.7	39.1
12/20/2006 22:00	40.5	39.5
12/20/2006 23:00	34.9	36.1
12/21/2006 0:00	40.4	outlier removed
12/21/2006 1:00	36.9	outlier removed
12/21/2006 2:00	33.5	outlier removed
12/21/2006 3:00	22.9	outlier removed
12/21/2006 4:00	22.1	outlier removed
12/21/2006 5:00	29.2	outlier removed
12/21/2006 6:00	29.8	outlier removed
12/21/2006 7:00	29.0	outlier removed
12/21/2006 8:00	29.8	outlier removed
12/21/2006 9:00	24.3	outlier removed
12/21/2006 10:00	23.5	outlier removed
12/21/2006 11:00	16.0	outlier removed
12/21/2006 12:00	14.8	outlier removed
12/21/2006 13:00	13.7	outlier removed
12/21/2006 14:00	14.0	outlier removed
12/21/2006 15:00	14.0	outlier removed
12/21/2006 16:00	15.4	outlier removed
12/21/2006 17:00	16.9	outlier removed
12/21/2006 18:00	16.9	outlier removed
12/21/2006 19:00	16.9	18.7
12/21/2006 20:00	17.2	29.3
12/21/2006 21:00	21.5	24.8
12/21/2006 22:00	24.5	22.9
12/21/2006 23:00	25.5	25.6
12/22/2006 0:00	21.8	26.7
12/22/2006 1:00	26.1	26.4
12/22/2006 2:00	24.8	27.0
12/22/2006 3:00	20.9	22.2
12/22/2006 4:00	17.7	19.8
12/22/2006 5:00	18.0	20.8
12/22/2006 6:00	16.6	31.1
12/22/2006 7:00	15.6	25.6
12/22/2006 8:00	22.7	28.5
12/22/2006 9:00	19.1	26.3



## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/22/2006 10:00	16.4	19.2
12/22/2006 11:00	15.0	20.7
12/22/2006 12:00	17.3	26.6
12/22/2006 13:00	18.7	30.0
12/22/2006 14:00	17.8	36.2
12/22/2006 15:00	16.6	24.6
12/22/2006 16:00	14.9	24.5
12/22/2006 17:00	13.2	19.2
12/22/2006 18:00	10.1	17.9
12/22/2006 19:00	4.1	15.3
12/22/2006 20:00	5.3	11.8
12/22/2006 21:00	13.6	10.1
12/22/2006 22:00	17.3	12.6
12/22/2006 23:00	16.0	14.0
12/23/2006 0:00	15.6	20.2
12/23/2006 1:00	13.8	24.2
12/23/2006 2:00	11.4	15.6
12/23/2006 3:00	11.4	16.4
12/23/2006 4:00	10.4	15.2
12/23/2006 5:00	11.1	13.4
12/23/2006 6:00	12.4	14.1
12/23/2006 7:00	9.8	14.0
12/23/2006 8:00	8.1	14.4
12/23/2006 9:00	10.6	13.1
12/23/2006 10:00	14.5	12.9
12/23/2006 11:00	16.6	16.1
12/23/2006 12:00	17.3	20.5
12/23/2006 13:00	16.3	13.3
12/23/2006 14:00	15.5	24.2
12/23/2006 15:00	13.9	16.0
12/23/2006 16:00	13.3	17.3
12/23/2006 17:00	22.5	22.8
12/23/2006 18:00	15.8	16.9
12/23/2006 19:00	16.6	16.8
12/23/2006 20:00	17.3	18.1
12/23/2006 21:00	17.1	19.0
12/23/2006 22:00	15.3	20.7
12/23/2006 23:00	15.2	19.4
12/24/2006 0:00	20.0	19.2
12/24/2006 1:00	14.1	16.5
12/24/2006 2:00	13.1	20.9
12/24/2006 3:00	14.6	10.7
12/24/2006 4:00	14.5	14.8

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/24/2006 5:00	12.0	17.2
12/24/2006 6:00	7.4	13.5
12/24/2006 7:00	7.6	10.5
12/24/2006 8:00	11.6	10.7
12/24/2006 9:00	9.5	12.6
12/24/2006 10:00	12.0	11.0
12/24/2006 11:00	13.6	12.9
12/24/2006 12:00	13.2	15.3
12/24/2006 13:00	14.9	12.9
12/24/2006 14:00	12.7	11.0
12/24/2006 15:00	11.6	12.2
12/24/2006 16:00	14.3	14.3
12/24/2006 17:00	14.3	14.2
12/24/2006 18:00	14.8	23.7
12/24/2006 19:00	18.3	22.4
12/24/2006 20:00	22.1	25.0
12/24/2006 21:00	22.3	23.1
12/24/2006 22:00	23.6	22.4
12/24/2006 23:00	21.9	24.0
12/25/2006 0:00	21.7	22.7
12/25/2006 1:00	29.9	24.7
12/25/2006 2:00	25.6	25.7
12/25/2006 3:00	25.5	23.2
12/25/2006 4:00	24.8	22.0
12/25/2006 5:00	22.0	26.5
12/25/2006 6:00	25.3	21.6
12/25/2006 7:00	27.4	25.3
12/25/2006 8:00	22.7	26.0
12/25/2006 9:00	16.4	24.0
12/25/2006 10:00	27.0	24.9
12/25/2006 11:00	27.1	29.6
12/25/2006 12:00	27.7	22.4
12/25/2006 13:00	21.9	29.6
12/25/2006 14:00	21.5	24.0
12/25/2006 15:00	24.4	23.1
12/25/2006 16:00	23.3	24.5
12/25/2006 17:00	31.5	23.3
12/25/2006 18:00	32.0	48.9
12/25/2006 19:00	32.0	55.4
12/25/2006 20:00	20.9	34.3
12/25/2006 21:00	20.3	40.4
12/25/2006 22:00	30.5	43.5
12/25/2006 23:00	23.0	37.0

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/26/2006 0:00	19.8	32.3
12/26/2006 1:00	19.8	32.8
12/26/2006 2:00	19.4	29.5
12/26/2006 3:00	16.6	26.1
12/26/2006 4:00	22.1	24.6
12/26/2006 5:00	13.1	19.8
12/26/2006 6:00	16.0	31.6
12/26/2006 7:00	19.2	37.4
12/26/2006 8:00	20.9	34.7
12/26/2006 9:00	17.4	31.1
12/26/2006 10:00	16.5	29.0
12/26/2006 11:00	16.8	26.3
12/26/2006 12:00	18.4	23.5
12/26/2006 13:00	19.1	24.5
12/26/2006 14:00	18.3	24.4
12/26/2006 15:00	18.3	15.4
12/26/2006 16:00	18.0	22.0
12/26/2006 17:00	14.6	16.7
12/26/2006 18:00	12.5	13.3
12/26/2006 19:00	14.7	13.6
12/26/2006 20:00	13.9	15.4
12/26/2006 21:00	10.9	13.3
12/26/2006 22:00	11.4	15.8
12/26/2006 23:00	11.6	16.7
12/27/2006 0:00	9.3	14.8
12/27/2006 1:00	9.9	14.4
12/27/2006 2:00	10.6	14.3
12/27/2006 3:00	12.1	16.2
12/27/2006 4:00	14.1	17.2
12/27/2006 5:00	12.4	15.0
12/27/2006 6:00	12.7	14.9
12/27/2006 7:00	11.8	16.4
12/27/2006 8:00	13.5	23.2
12/27/2006 9:00	25.1	27.2
12/27/2006 10:00	21.2	21.7
12/27/2006 11:00	21.1	26.5
12/27/2006 12:00	27.3	18.9
12/27/2006 13:00	24.6	18.1
12/27/2006 14:00	25.4	22.0
12/27/2006 15:00	28.1	24.2
12/27/2006 16:00	26.0	20.8
12/27/2006 17:00	21.5	21.6
12/27/2006 18:00	17.0	27.2

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/27/2006 19:00	14.1	14.2
12/27/2006 20:00	22.3	16.0
12/27/2006 21:00	22.2	18.0
12/27/2006 22:00	21.8	23.1
12/27/2006 23:00	16.0	23.6
12/28/2006 0:00	20.4	20.4
12/28/2006 1:00	20.2	24.8
12/28/2006 2:00	21.9	22.7
12/28/2006 3:00	23.8	22.2
12/28/2006 4:00	24.4	23.1
12/28/2006 5:00	22.1	23.6
12/28/2006 6:00	18.8	21.2
12/28/2006 7:00	20.9	18.4
12/28/2006 8:00	24.0	26.3
12/28/2006 9:00	20.6	25.8
12/28/2006 10:00	20.2	21.3
12/28/2006 11:00	23.3	21.8
12/28/2006 12:00	27.1	27.2
12/28/2006 13:00	24.3	22.9
12/28/2006 14:00	24.0	21.4
12/28/2006 15:00	26.1	18.8
12/28/2006 16:00	25.9	23.5
12/28/2006 17:00	22.2	29.1
12/28/2006 18:00	20.3	31.1
12/28/2006 19:00	25.8	32.5
12/28/2006 20:00	28.4	28.4
12/28/2006 21:00	30.3	31.4
12/28/2006 22:00	27.1	28.2
12/28/2006 23:00	25.9	36.2
12/29/2006 0:00	29.0	31.1
12/29/2006 1:00	37.0	32.3
12/29/2006 2:00	29.8	35.4
12/29/2006 3:00	25.8	25.7
12/29/2006 4:00	22.5	22.7
12/29/2006 5:00	16.7	34.2
12/29/2006 6:00	25.3	26.7
12/29/2006 7:00	23.5	25.8
12/29/2006 8:00	25.7	27.7
12/29/2006 9:00	27.3	31.2
12/29/2006 10:00	25.4	31.5
12/29/2006 11:00	26.1	27.2
12/29/2006 12:00	26.4	19.1
12/29/2006 13:00	20.5	25.7

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/29/2006 14:00	17.3	24.7
12/29/2006 15:00	17.1	17.7
12/29/2006 16:00	18.1	18.4
12/29/2006 17:00	20.0	27.6
12/29/2006 18:00	18.2	25.0
12/29/2006 19:00	22.4	21.8
12/29/2006 20:00	16.0	20.5
12/29/2006 21:00	22.4	20.3
12/29/2006 22:00	22.1	18.9
12/29/2006 23:00	18.6	22.9
12/30/2006 0:00	20.2	25.7
12/30/2006 1:00	24.1	24.5
12/30/2006 2:00	23.9	21.6
12/30/2006 3:00	21.1	26.5
12/30/2006 4:00	22.0	32.2
12/30/2006 5:00	18.3	22.9
12/30/2006 6:00	26.2	26.9
12/30/2006 7:00	21.7	19.9
12/30/2006 8:00	22.7	17.1
12/30/2006 9:00	23.6	17.8
12/30/2006 10:00	21.6	21.2
12/30/2006 11:00	40.8	38.5
12/30/2006 12:00	39.2	37.7
12/30/2006 13:00	42.4	37.0
12/30/2006 14:00	36.4	37.5
12/30/2006 15:00	36.0	38.7
12/30/2006 16:00	39.7	38.7
12/30/2006 17:00	37.8	46.4
12/30/2006 18:00	38.1	44.7
12/30/2006 19:00	29.0	36.3
12/30/2006 20:00	34.6	42.1
12/30/2006 21:00	25.4	25.6
12/30/2006 22:00	26.4	27.2
12/30/2006 23:00	27.0	25.8
12/31/2006 0:00	28.2	29.8
12/31/2006 1:00	31.0	28.6
12/31/2006 2:00	20.6	22.7
12/31/2006 3:00	25.0	24.6
12/31/2006 4:00	23.7	29.9
12/31/2006 5:00	19.3	18.2
12/31/2006 6:00	19.4	23.3
12/31/2006 7:00	22.1	23.1
12/31/2006 8:00	21.5	17.0

## Appendix A2

### Record of PM<sub>2.5</sub> Measurements

Date/Time	Hourly Average PM <sub>2.5</sub> Concentration (µg/m <sup>3</sup> )	
	Ontario Public Health Laboratory	St. Clair College
12/31/2006 9:00	17.2	21.8
12/31/2006 10:00	25.1	18.8
12/31/2006 11:00	21.0	21.2
12/31/2006 12:00	26.1	24.0
12/31/2006 13:00	24.1	23.4
12/31/2006 14:00	22.2	20.6
12/31/2006 15:00	21.8	32.8
12/31/2006 16:00	25.1	33.2
12/31/2006 17:00	24.6	37.4
12/31/2006 18:00	15.4	30.0
12/31/2006 19:00	20.9	26.5
12/31/2006 20:00	17.7	29.2
12/31/2006 21:00	17.1	24.0
12/31/2006 22:00	15.2	15.6
12/31/2006 23:00	10.5	16.6