Waste Management of Canada Corporation

Environmental Assessment for a New Landfill Footprint at the West Carleton Environmental Centre

ATMOSPHERIC – PARTICULATE MATTER EXISTING CONDITIONS REPORT

Prepared by:
RWDI AIR Inc.

Project Number:
60191228

Date:
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Appendices

1. Introduction

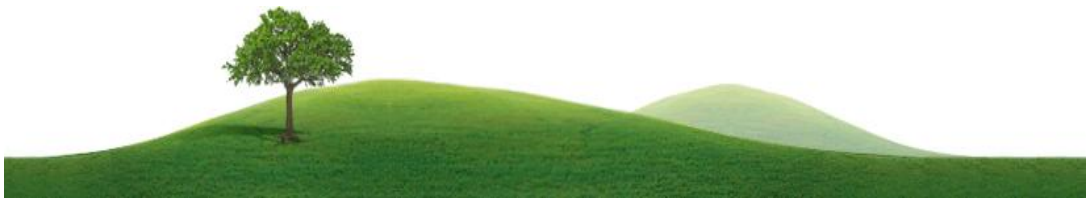
RWDI AIR Inc. (RWDI) was retained by Waste Management of Canada Corporation (WM) to determine the particulate matter baseline condition for the West Carlton Environmental Centre (WCEC) landfill site, owned by WM. The landfill site has reached its maximum waste capacity and WM is planning on closing the landfill site before the end of 2011. This report outlines the results of our baseline assessment of particulate matter impacts.

The purpose of this assessment was to predict the general levels of particulate matter on the surrounding area once the landfill site is closed. The particulate matter (PM) baseline condition within the study area will include negligible particulate matter emissions from the closed landfill site, roadway emissions, off-site aggregate operation emissions and the general background emissions. This assessment will establish the PM baseline condition for use in any future comparisons. The assessment involved the following components:

- Identification of 24-hour TSP measurements taken upwind of the landfill site by using the meteorological data collected from the on-site weather station, to ensure the exclusion of irrelevant emissions sources in the PM baseline condition;
- Conducting a statistical analysis of the TSP measurement results from the ambient monitoring program conducted in 2004, 2008, 2009 and 2010 to determine the TSP baseline value;
- Collection of statistics for TSP, PM_{10} and $PM_{2.5}$ measurements collected and recorded by the MOE air quality monitoring stations and summarized in the Annual Air Quality in Ontario reports; and
- Use of typical PM_{10}/TSP and $PM_{2.5}$/TSP ratios observed at various MOE air quality monitoring stations throughout the province to predict PM_{10} and $PM_{2.5}$ baseline values. The ratios were calculated using the statistics summarized in the Annual Air Quality in Ontario reports.

1.1 Contaminants of Interest

The three contaminants of interest in the particulate matter baseline assessment are: total suspended particulate matter (TSP), inhalable particulate matter (PM_{10}) and respirable particulate matter ($PM_{2.5}$).



TSP refers to particles less than 44 μm in aerodynamic diameter (defined as a particle that would have the same aerodynamic behaviour in air as a sphere, with a specific gravity of 1.0 and a diameter of 44 μm). These particles are small enough to remain suspended in the atmosphere over long periods of time due to their low settling velocity. When present in large quantities, they can affect visibility and cause soiling effects.

PM_{10} refers to particles that are less than 10 μm in aerodynamic diameter. These particles are referred to as the inhalable portion of particulate matter as they have the ability to enter the lungs. When exposed to elevated levels of PM_{10} over a long period of time, negative health effects can result.

$PM_{2.5}$ refers to solid or liquid particles that are less than 2.5 μm in aerodynamic diameter. These particles are referred to as the respirable portion of particulate matter as these very small particles can be inhaled into the lungs and are small enough to reach the gas transfer sites in the lungs. When exposed to elevated levels of $PM_{2.5}$ over a long period of time, detrimental health effects can result. Impacts from all three of these particulate matter classes were considered in this assessment.

1.2 Applicable Guidelines

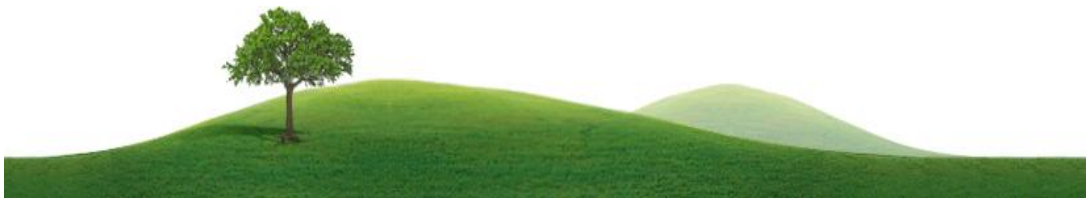
Measured 24-hour TSP concentrations from the ambient monitoring programs were previously compared to the Ontario Regulation 419/05 Point of Impingement (POI) Limits. The Regulation's Schedule 3, 24-hour Standard for Suspended Particulate Matter (<44 μm diameter) is 120 $\mu g/m^3$.

Predicted concentrations for PM_{10} and $PM_{2.5}$ can be compared against the Provincial Ambient Air Quality Criteria (AAQC) and the Canada Wide Standard, respectively. The criteria for PM_{10} is based on an interim 24-hour AAQC of 50 $\mu g/m^3$ and the Canada Wide Standard for $PM_{2.5}$ is 30 μg/m based on the 98th percentile ambient measurements taken annually, averaged over three consecutive years.

1.3 Emission Sources

1.3.1 Historical On-Site Sources

A number of potential sources of particulate matter were identified at the landfill site. These sources were identified during the initial site visit in 2004 by RWDI with consultation from WM staff. The particulate matter sources were broken down into several categories. These categories are presented below:



- **Roadway Sources** – A roadway network, consisting of paved and unpaved roads, is present on the landfill site. PM emissions are produced when vehicles travelling along these roads stir up dust particles from the roadway surface.
- **Handling Sources** – Dust-producing materials, such as contaminated soil, are handled daily under normal landfill operations. Particulate matter is emitted as this material is moved and dropped.
- **Wind Erosion Sources** – Stockpiles of material, along with areas of bare soil, such as the landfill active face, experience wind erosion at high (>5 m/s) wind speeds. This erosion causes fine particulate matter to be emitted.
- **Landfill Gas Flare** – Particulate matter is emitted from the landfill gas flare as a combustion by-product. These particles generally fall within the $PM_{2.5}$ class. The impact of dust emissions from the landfill gas flare is minimal in comparison to the other sources. For this reason, the landfill gas flare was removed from the dust assessment. Dust impacts from the landfill gas flare are considered in the flare combustion by-product analysis.

Once the existing landfill site is closed, the only on-site sources that will still be emitting particulate matter are the landfill gas combustion sources.

An on-site meteorological station recorded wind speed and wind direction during the sampling intervals, which was used to determine prevailing wind directions during sampling periods. The prevailing wind directions were used to exclude TSP measurements that may have captured emissions from on-site sources during the ambient monitoring program. Details are provided in the methodology section, below.

1.3.2 Off-Site Sources

There are several major off-site sources of particulate matter in the immediate vicinity of the landfill site. These sources include:

- Highway 417 and Carp Road, located along the southern and eastern property line;
- Two licensed aggregate operations, one located along Carp Road, across from the landfill's main entrance and another located to the southwest; and,
- Farming operations, located along the northern property line (between the landfill site and Richardson Side Road).

The prevailing wind directions determined for each sampling period were used to include TSP measurements that may have captured emissions from off-site source during the ambient monitoring program. The statistical analysis was performed using only these TSP measurements to determine the particulate matter baseline condition. Details are provided in the methodology section, below.

2. Landfill Footprint Study Areas

In accordance with the approved Terms of Reference (ToR), approved by the Minister, the generic On-Site and Site-Vicinity study areas for the proposed new landfill footprint at the WCEC are listed below:

On-Site the lands owned or optioned by WM and required for the new landfill. The Site is bounded by Highway 417, Carp Road and Richardson Sideroad;

Site-Vicinity..... the lands in the vicinity of the site extending about 500 metres (m) in all directions; and,

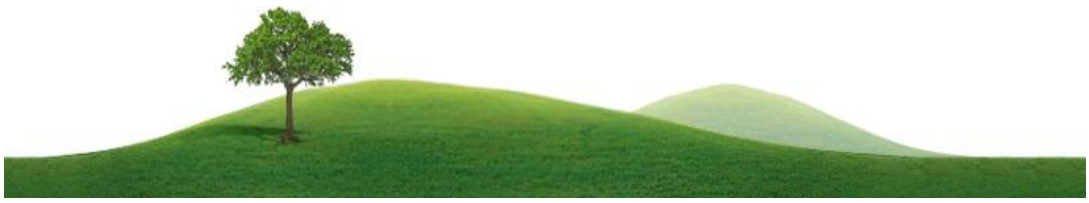
Regional..... the lands within approximately 3-5 kilometres (km) of the Site for those disciplines that require a larger analysis area (i.e., socio-economic, odour, etc.).

The study areas identified above were presented in the approved ToR with the commitment that these generic study areas would be modified during the EA to suit the requirements of each environmental component.

The baseline data are assumed to be similar throughout the Regional Area.

3. Methodology

Based on the work plans presented in Appendix C of the approved ToR, the following sections outline the methodology for detailing the particulate matter (PM) baseline condition for the WCEC.



3.1 Available Secondary Source Information Collection and Review

Available secondary sources of information were collected and reviewed by the Atmospheric Study Team to determine the PM baseline condition within the study area. The following sources of secondary information were collected and reviewed:

- Ambient Monitoring Program completed in 2004, 2008, 2009 and 2010 (see Table 3.2.1 in Appendix B);
- Meteorological data recorded from on-site weather station (see Table 3.2.3 in Appendix B); and
- Ontario Ministry of the Environment (MOE) Annual Air Quality in Ontario Reports (see Tables 4.1.2 in Appendix B for Summary of 1998-2002 Data Used).

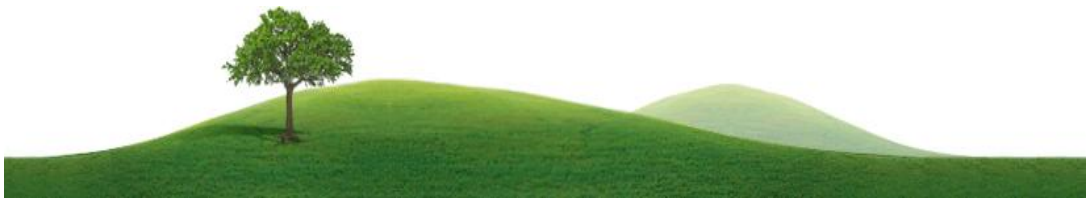
3.2 Process Undertaken

3.2.1 Ambient Monitoring Program (2004-2010)

As presented in Appendix B Table 3.2.1, a total of eighty-seven (87) TSP sample sets were collected during the four (4) ambient monitoring programs conducted at the WCEC. Samples for the four (4) ambient monitoring programs were collected during the following periods:

- June 26 to October 24 of 2004;
- May 12 to August 28 of 2008;
- May 7 to September 28 of 2009; and
- June 1 to September 5 of 2010.

TSP measurements were taken at three stationary locations around the landfill footprint. The sampling sites were located near the northeast corner (Location 1), southeast corner (Location 2) and southwest corner (Location 3) of the WCEC, as shown in Appendix A **Figure 3.2.1**. Location 1 was located adjacent to the main on-site haul route, while Location 2 was located near the turnaround area for the contaminated soil trucks. Location 3 was located near the back of the landfill, away from heavily travelled areas. Samples were taken over a 24-hour period every six (6) days, in concurrence with the United States Environmental Protection Agency's North American sampling schedule.



The particulate matter sampling and collection methods were in compliance with the methods specified by the MOE's Operations Manual for Air Quality Monitoring in Ontario and USEPA Method IO-2. The 24-hour samples were taken using standard high-volume (hi-vol) air samplers at a sampling rate of 40 cubic feet per minute. Suspended particulate matter was collected on 8"x10" Teflon coated glass fibre filters. In 2004, the filters were submitted to PSC Analytical Services for gravimetric analysis.

3.2.2 Ambient Air Quality Monitoring Quality Assurance

A number of common quality assurance measures were implemented during the sampling program to ensure the integrity of the results. These measures included detailed documentation of all field activities, calibration of all samplers and a number of laboratory-related measures including sample handling procedures and instrument calibrations.

All of the samplers were bench-tested and calibrated in RWDI's office prior to field deployment and calibrated again in the field before and after use. Chain of Custody forms were completed and submitted along with the exposed samples to the laboratory.

3.2.3 Meteorological Data

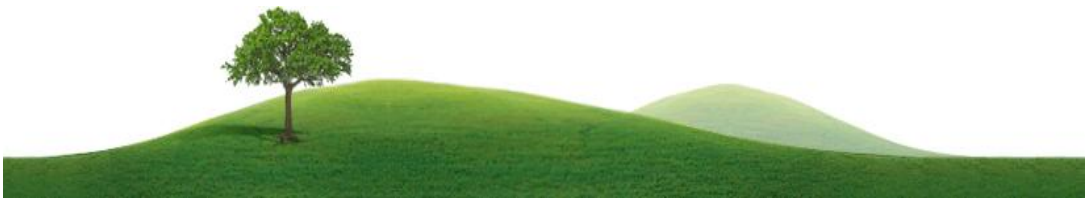
An on-site meteorological station recorded hourly wind speed and wind direction during the ambient monitoring programs. The data collected, summarized in Appendix B Table 3.2.3, was used to determine prevailing wind directions during sampling periods.

On-site wind direction data was not recorded for some sampling periods, due to technical problems with the meteorological station.

3.2.4 Statistical Analysis to Determine PM Baseline Condition

Depending on the prevailing wind direction during the sampling period, emissions from on-site sources may have been captured during the ambient monitoring program and presented in the TSP measurement results. Once the existing landfill site is closed, the on-site sources will no longer be emitting the same quantity of particulate matter measured during the 2004, 2007, 2008, 2009 and 2010 ambient monitoring programs.

The prevailing wind directions determined for each sampling period and sampling site location were used to exclude TSP measurements that may have captured emissions from on-site sources during the ambient monitoring program. The excluded measurements were not used in the statistical analysis of TSP measurement results and therefore the on-site particulate matter emissions are not represented in the particulate matter baseline condition, as desired.



3.2.4.1 Sampling Site Location

The statistical analysis of TSP measurement results was restricted to samples taken at Location 3. Measurements taken at Location 3 were chosen for this analysis as the sampling site is ideally located near the back of the landfill, away from heavily traveled areas, or other on-site particulate matter emission sources.

Location 1 and Location 2 were not used to represent the baseline condition due to their close proximity to on-site particulate matter emission sources. Location 1 is located adjacent to the main on-site haul route, while Location 2 is located near the turnaround area for the contaminated soil trucks. The measurements taken at these sampling sites are impacted by these on-site emission sources and thus excluded from the analysis.

3.2.4.2 Prevailing Wind Directions for Sampling Periods

The average hourly meteorological data collected on-site was used to determine when winds were blowing from directions between 90^{o} and 315^{o}, placing the Location 3 sampling site upwind from the landfill. It is unlikely that upwind measurements captured emissions from on-site sources, but rather emissions from off-site sources and general background emissions. Measurements taken at Location 3 were included in the analysis if the winds were recorded to be blowing from directions between 90^{o} and 315^{o} for a minimum of 12 hours during the 24-hour period during which the sample was collected. When winds were blowing from outside of these directions, Location 3 was considered to be downwind of the landfill and therefore measurement results taken on the corresponding day were excluded from the data set used in the statistical analysis.

To illustrate the wind directions used in determining the days where samples were taken upwind of the landfill, a wind rose and locations have been included in Appendix A **Figure 3.2.1**.

3.2.5 MOE PM_{10}/TSP and $PM_{2.5}$/TSP Ratios

To determine typical PM_{10}/TSP and $PM_{2.5}$/TSP ratios, collocated data for PM_{10}/TSP and $PM_{2.5}$/TSP was collected from the MOE air quality monitoring stations across the province, which is summarized in the annual Air Quality in Ontario reports. $PM_{2.5}$, PM_{10} and TSP measurements were taken from 1998 to 2002.

To develop a typical ratio for $PM_{2.5}$/TSP, collocated data was collected from monitoring stations recording particulate matter concentrations for at least two (2) consecutive years. The stations that meet these criteria are as follows:

- Station No. 12007 Windsor;

- Station No. 12008 Windsor Downtown;
- Station No. 29000 Hamilton Downtown;
- Station No. 29114 Hamilton Mountain; and
- Station No. 71042 Sault Ste. Marie.

The $PM_{2.5}$ and TSP geometric means (or 50th percentile value) were used to determine annual ratios. The geometric mean of the annual ratios for each station was calculated and will be used to determine the $PM_{2.5}$ baseline value.

The same methodology was followed to develop the PM_{10}/TSP ratio. The data at the following stations was used:

- Station No. 12016 Windsor;
- Station No. 15025 London; and
- Station No. 29025 Hamilton.

Similarly, the PM_{10} and TSP geometric means (or 50th percentile value) were used to determine annual ratios. The geometric mean of the annual ratios for each station was calculated and will be used to determine the PM_{10} baseline value.

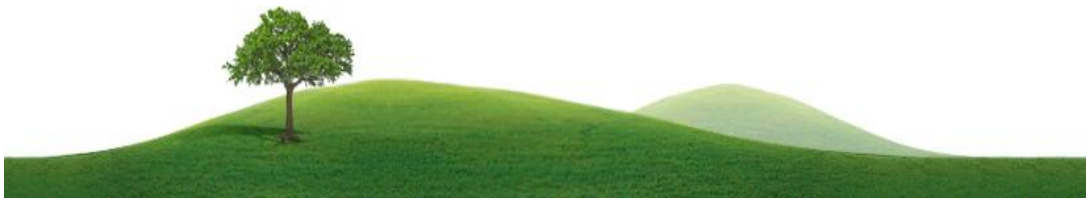
4. Particulate Matter Baseline Condition

4.1 Statistical Analysis Results

Using the prevailing wind directions determined for each sampling period and sampling site location to exclude TSP measurements that may have captured emissions from on-site sources during the ambient monitoring program, has yielded the statistical results presented in Table 4.1.

Table 4.1.. Summary of Statistical Analysis Results (in µg/m^3)

Location	No. of Events Upwind to the Landfill	Max	Min	Arithmetic Mean	Geometric Mean	Percentiles		
						70th	*90th*	*99th*
Location 3	59	495	0	43	28	39	58	108



The geometric mean of the TSP measurement results was calculated to be 28 µg/m3. This value will be used as the TSP baseline value. The PM2.5 and PM10 baseline values will be determined using this TSP baseline value and the typical MOE monitored PM10/TSP and PM2.5/TSP ratios.

4.2 $PM_{2.5}$ and PM_{10} Results

The ratios PM_{10}/TSP and $PM_{2.5}$/TSP ratios calculated from the collocated data collected from the MOE air quality monitoring stations (summarized in Appendix B) is presented in Tables 4.2 A and B.

Using the ratio geometric means calculated and the geometric mean of the TSP measurement, the $PM_{2.5}$ and PM_{10} baseline values are calculated as 5 µg/m^3 and 9 µg/m^3, respectively.

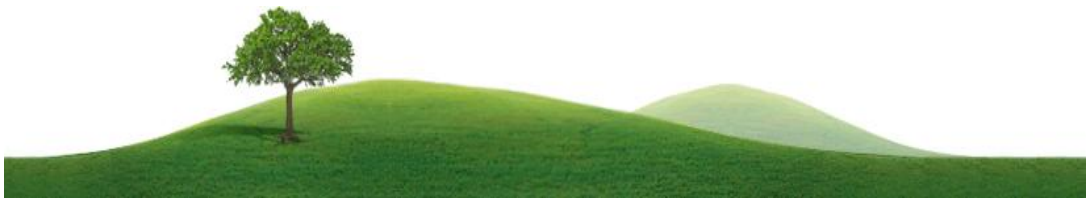
A limited number of ambient measurements were taken in Eastern Ontario, for comparison purposes. Only $PM_{2.5}$ measurements were taken in Eastern Ontario, at Station No. 51001-Ottawa and Station No. 49010-Dorset (summarized in Appendix B). With the geometric means values for $PM_{2.5}$ ranging from 3 to 8 µg/m^3, the calculated $PM_{2.5}$ baseline value is comparable.

Table 4.2A. Ratio of $PM_{2.5}$/TSP Data

Collocated PM2.5/TSP Data at:		**Year**				
Station No.	***Station Name***	***1998***	***1999***	***2000***	***2001***	***2002***
12007	Windsor	N/A	N/A	N/A	0.123	0.132
12008	Windsor Downtown	N/A	N/A	N/A	0.123	0.130
29000	Hamilton Downtown	0.188	0.242	0.25	0.173	0.192
29114	Hamilton Mountain	0.218	0.281	0.225	0.122	0.133
71042	Sault Ste. Marie	N/A	0.081	0.164	N/A	N/A
					PM2.5/TSP Geometric Mean:	0.165

Table 4.2B3. Ratio of PM_{10}/TSP Data

Collocated PM10/TSP Data at:		**Year**				
Station No.	***Station Name***	***1998***	***1999***	***2000***	***2001***	***2002***
12016	Windsor	0.366	0.400	0.299	0.365	N/A
15025	London	0.327	0.386	0.441	0.410	0.354
29025	Hamilton	0.187	0.200	N/A	N/A	N/A
					PM10/TSP Geometric Mean:	0.325



5. Conclusions

Depending on the prevailing wind direction, emissions from on-site sources may have been captured during the ambient monitoring program and presented in the TSP measurement results. Once the existing landfill site is closed, the on-site sources will no longer be emitting the same quantity of particulate matter measured during the 2004, 2007, 2008, 2009 and 2010 ambient monitoring programs.

The prevailing wind directions determined for each sampling period and sampling site location were used to exclude TSP measurements that may have captured emissions from on-site sources during the ambient monitoring program. The particulate baseline condition was calculated to be as follows:

- TSP baseline value of 28 µg/m³
- PM_{10} baseline value of 9 µg/m³
- $PM_{2.5}$ baseline value of 5 µg/m³

Through a comparison of the calculated $PM_{2.5}$ baseline value to the data collected from the MOE monitoring station in Eastern Ontario, the baseline condition appears to be comparable to typical particulate matter conditions for the region.

6. Recommendations / Further Work

There is no further work recommended for the determination of baseline particulate levels at this time.

Report Submitted By:

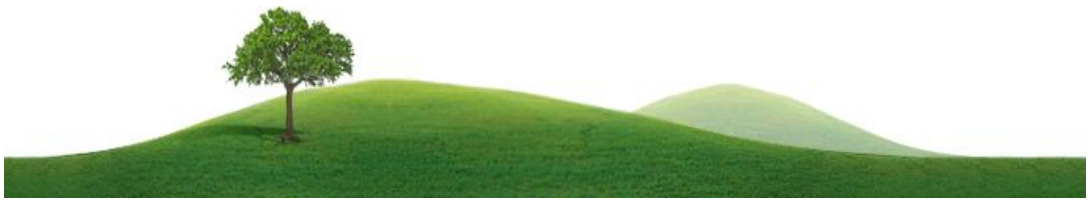
RWDI AIR Inc.

John DeYoe, B.A., d.E.T.
Project Director
John.DeYoe@rwdi.com

Brad Bergeron, A.Sc.T., d.E.T.
Senior Project Manager
Brad.Bergeron@rwdi.com

Brian Sulley, B.A.Sc., P.Eng.
Senior Engineer
Brian.Sulley@rwdi.com

Claire Finoro, B.Sc. (Eng), E.I.T.
Project Co-ordinator
Claire.Finoro@rwdi.com



7. References

MOE, 1998-2002:

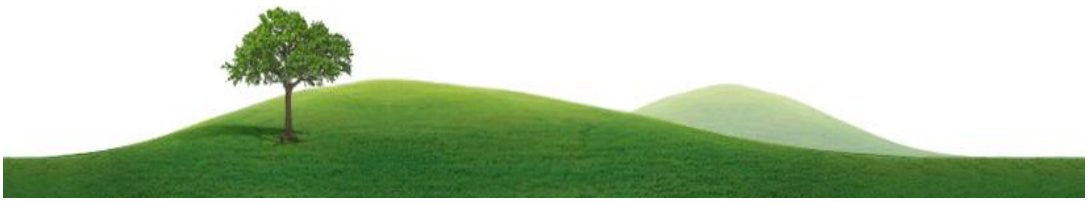
Air Quality in Ontario annual reports (1998-2002), Ontario Ministry of the Environment, the Environmental Monitoring and Reporting Branch.

MOE, 2008:

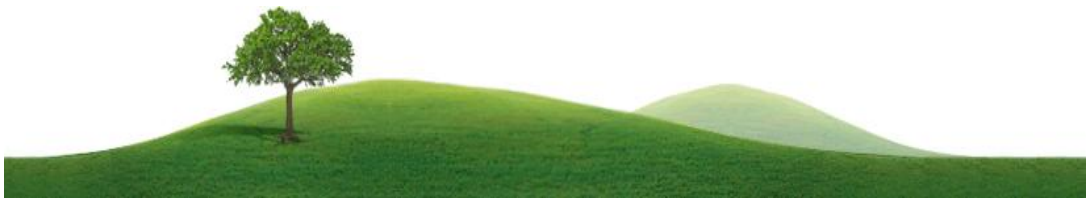
Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality, Ontario Ministry of the Environment, February 2008.

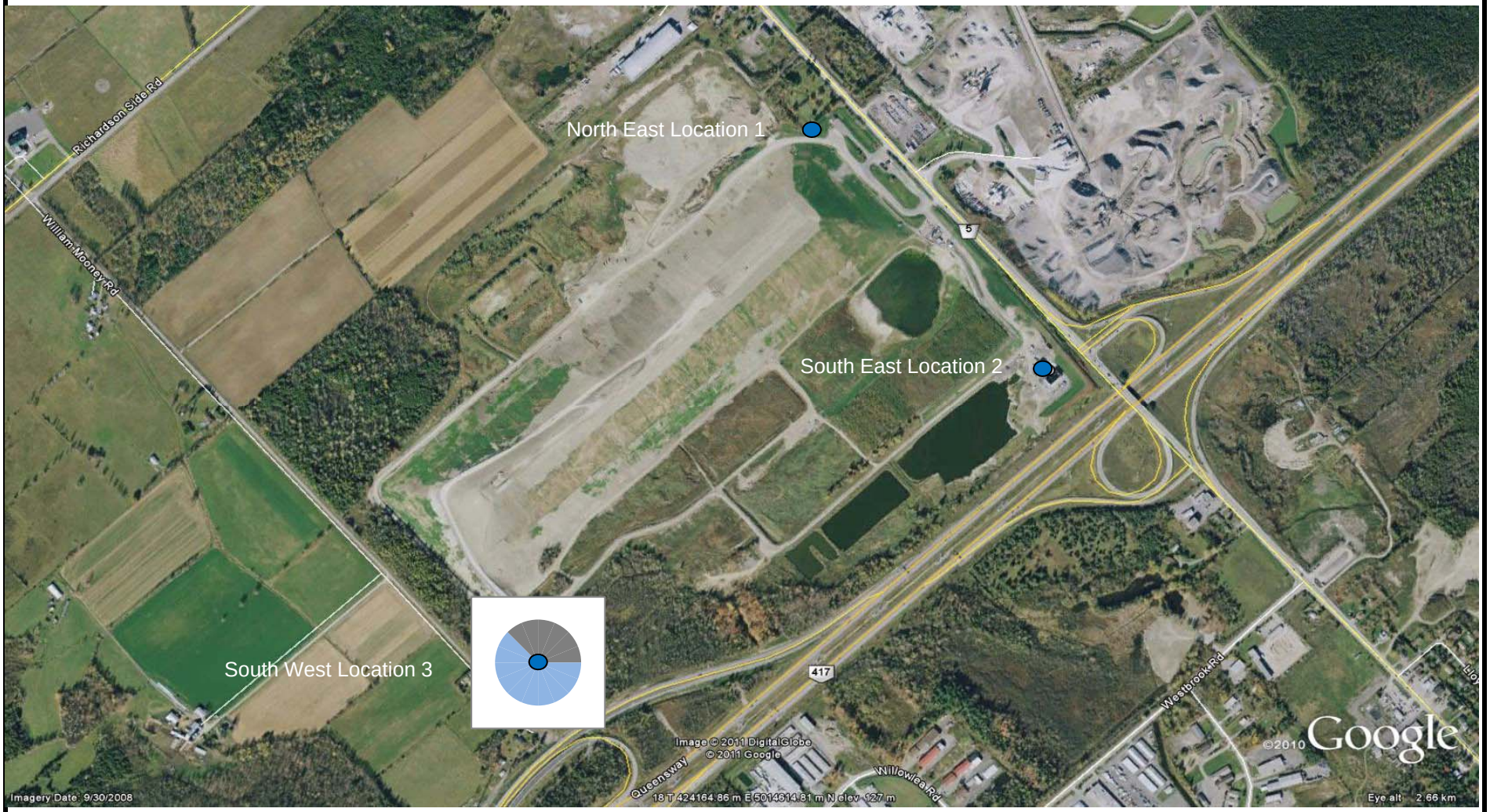
Previous Reports Prepared by RWDI Air:

- Dust Assessment – Ottawa Landfill Baseline Conditions, Ottawa, Ontario. Project # W04-1491A. May 12, 2005.
- Ambient Monitoring Report – Ottawa Landfill, Ottawa, Ontario. Project # W07-5258C. November 18, 2008.
- Ambient Monitoring Report – Ottawa Landfill, Ottawa, Ontario. Project # 0940346. November 20, 2009.
- Ambient Monitoring Report – Ottawa Landfill, Ottawa, Ontario. Project # 0940346. January 12, 2011.



Appendix A





Note: Wind roses are depicting the prevailing wind directions used to determine when locations are upwind of the Ottawa Landfill. The blue sections are the directions of wind blowing from that determine the prevailing wind direction for each sampling period.

TSP Sampling Locations with Wind Directions (blowing from) Used to Determine Prevailing Wind Direction for Each Sampling Period

WCEC--Ottawa, Ontario

Project #1100798

Figure No.: 3.2.1

Date: April 30, 2011

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Appendix B

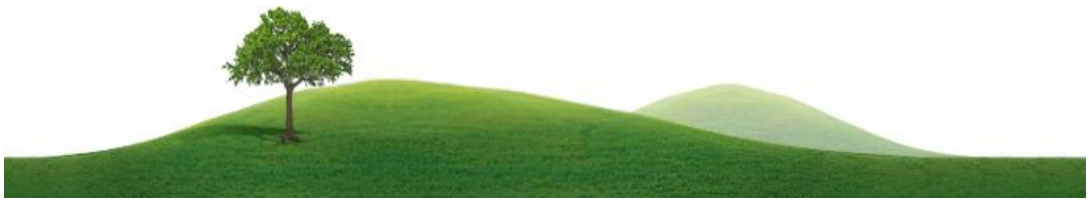

Table 3.2.1: Ambient 24-Hour Total Suspended Particulate Matter Results for All Locations

24-hour Concentration (µg/m^3)			
Sample Date	**Location 1**	**Location 2**	**Location 3**
	Northeast	**Southeast**	**Southwest**
26-Jun-04	56	17.7	15.1
2-Jul-04	N/A	N/A	26.6
8-Jul-04	896	48	23
14-Jul-04	244	42	30
20-Jul-04	194	69	68
26-Jul-04	227	162	45
1-Aug-04	51	48	24
7-Aug-04	39	48	29
13-Aug-04	70	94	27
19-Aug-04	94	70	39
25-Aug-04	172	68	36
31-Aug-04	N/A	111	24
6-Sep-04	158	34	26
12-Sep-04	71	33	20
18-Sep-04	46	65	39
24-Sep-04	446	76	49
30-Sep-04	106	158	86
6-Oct-04	692	39	21
12-Oct-04	N/A	107	18
18-Oct-04	31	88	9
24-Oct-04	64	33	19
12-May-08	143	72	0
18-May-08	16	20	25
24-May-08	14	24	13
30-May-08	198	348	57
5-Jun-08	190	107	33
11-Jun-08	71	162	30
17-Jun-08	107	0	14
23-Jun-08	0	42	19
29-Jun-08	0	96	26
5-Jul-08	0	68	18
11-Jul-08	0	146	23
17-Jul-08	126	427	31
23-Jul-08	149	238	30
29-Jul-08	0	204	57
4-Aug-08	31	90	20
10-Aug-08	16	20	0
16-Aug-08	39	12	30
22-Aug-08	167	176	43
28-Aug-08	182	156	58
7-May-09	43	112	28
13-May-09	148	181	57
19-May-09	72	143	30
25-May-09	133	220	62
31-May-09	23	0	0
6-Jun-09	30	41	23
12-Jun-09	125	189	56
18-Jun-09	76	40	29

24-Jun-09	101	N/A	87
30-Jun-09	122	65	30
6-Jul-09	62	89	16
12-Jul-09	29	15	15
18-Jul-09	26	28	16
24-Jul-09	81	50	13
30-Jul-09	38	70	9
5-Aug-09	16	637	N/A
11-Aug-09	672	139	6
17-Aug-09	139	256	N/A
23-Aug-09	38	35	14
29-Aug-09	34	34	15
4-Sep-09	0	0	0
10-Sep-09	0	0	0
16-Sep-09	0	0	0
22-Sep-09	0	0	0
28-Sep-09	0	0	0
2-May-10	32	32	25
8-May-10	17	13	15
14-May-10	71	73	36
20-May-10	98	78	55
26-May-10	N/A	N/A	100
1-Jun-10	80	122	38
7-Jun-10	35	59	35
13-Jun-10	52	59	42
19-Jun-10	56	67	51
25-Jun-10	105	176	103
1-Jul-10	14	27	14
7-Jul-10	101	115	57
13-Jul-10	151	120	40
19-Jul-10	79	N/A	41
25-Jul-10	24	N/A	21
31-Jul-10	56	N/A	60
6-Aug-10	36	67	42
12-Aug-10	152	106	212
18-Aug-10	49	82	120
24-Aug-10	181	120	222
30-Aug-10	N/A	158	495
5-Sep-10	33	35	65

Notes: N/A: No value available for the given sample period.

Table 3.2.3: Meteorological Data Collected On-site during Ambient Monitoring Programs

Year	Month	Day	Julian Day	Hour	Wind Speed (m/s)	Wind Direction (Degrees)
2004	7	2	184	0	4.5	291
2004	7	2	184	1	5.0	288
2004	7	2	184	2	5.5	292
2004	7	2	184	3	5.7	294
2004	7	2	184	4	6.1	293
2004	7	2	184	5	5.8	297
2004	7	2	184	6	5.2	299
2004	7	2	184	7	6.5	309
2004	7	2	184	8	6.5	315
2004	7	2	184	9	6.5	316
2004	7	2	184	10	6.0	304
2004	7	2	184	11	5.4	301
2004	7	2	184	12	5.6	304
2004	7	2	184	13	5.2	309
2004	7	2	184	14	5.7	301
2004	7	2	184	15	4.0	301
2004	7	2	184	16	4.6	311
2004	7	2	184	17	5.3	309
2004	7	2	184	18	3.8	331
2004	7	2	184	19	3.0	325
2004	7	2	184	20	2.1	295
2004	7	2	184	21	2.0	282
2004	7	2	184	22	3.2	277
2004	7	2	184	23	3.7	267
2004	7	8	190	0	2.7	91
2004	7	8	190	1	2.6	104
2004	7	8	190	2	2.3	186
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2004	7	8	190	4	1.6	130
2004	7	8	190	5	1.7	109
2004	7	8	190	6	1.8	130
2004	7	8	190	7	1.6	181
2004	7	8	190	8	2.9	207
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2004	7	8	190	11	4.6	210
2004	7	8	190	12	5.2	217
2004	7	8	190	13	4.9	208
2004	7	8	190	14	4.8	197
2004	7	8	190	15	5.8	217
2004	7	8	190	16	4.8	254

2004	7	8	190	17	4.1	266
2004	7	8	190	18	6.0	274
2004	7	8	190	19	6.7	284
2004	7	8	190	20	5.8	294
2004	7	8	190	21	3.9	299
2004	7	8	190	22	2.1	258
2004	7	8	190	23	2.0	271
2004	7	14	196	0	3.6	154
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2004	7	14	196	3	4.4	147
2004	7	14	196	4	4.8	137
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2004	7	14	196	6	4.5	137
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2004	7	14	196	9	5.6	112
2004	7	14	196	10	5.8	116
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2004	7	14	196	14	4.7	135
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2004	7	14	196	16	4.0	193
2004	7	14	196	17	1.9	125
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2004	7	14	196	20	2.4	100
2004	7	14	196	21	2.4	108
2004	7	14	196	22	3.0	122
2004	7	14	196	23	3.4	151
2004	7	20	202	0	2.3	223
2004	7	20	202	1	2.6	220
2004	7	20	202	2	2.4	228
2004	7	20	202	3	2.7	245
2004	7	20	202	4	3.1	260
2004	7	20	202	5	3.4	268
2004	7	20	202	6	3.6	280
2004	7	20	202	7	3.1	278
2004	7	20	202	8	3.8	294
2004	7	20	202	9	3.5	287
2004	7	20	202	10	2.6	293
2004	7	20	202	11	3.9	284
2004	7	20	202	12	4.4	308

2004	7	20	202	13	3.8	290
2004	7	20	202	14	3.9	252
2004	7	20	202	15	3.6	239
2004	7	20	202	16	4.0	235
2004	7	20	202	17	4.0	206
2004	7	20	202	18	4.7	252
2004	7	20	202	19	2.0	285
2004	7	20	202	20	2.4	253
2004	7	20	202	21	1.4	229
2004	7	20	202	22	1.7	180
2004	7	20	202	23	1.7	249
2004	7	26	208	0	2.6	206
2004	7	26	208	1	2.6	229
2004	7	26	208	2	2.7	234
2004	7	26	208	3	2.9	242
2004	7	26	208	4	2.4	276
2004	7	26	208	5	1.5	318
2004	7	26	208	6	1.2	302
2004	7	26	208	7	0.8	321
2004	7	26	208	8	1.9	315
2004	7	26	208	9	2.1	313
2004	7	26	208	10	1.8	318
2004	7	26	208	11	1.9	334
2004	7	26	208	12	1.8	354
2004	7	26	208	13	2.0	350
2004	7	26	208	14	1.8	273
2004	7	26	208	15	2.3	35
2004	7	26	208	16	2.1	227
2004	7	26	208	17	2.8	338
2004	7	26	208	18	3.8	140
2004	7	26	208	19	3.0	145
2004	7	26	208	20	2.8	158
2004	7	26	208	21	3.1	157
2004	7	26	208	22	2.6	167
2004	7	26	208	23	3.1	172
2004	8	1	214	0	3.2	214
2004	8	1	214	1	3.5	216
2004	8	1	214	2	3.5	214
2004	8	1	214	3	3.7	224
2004	8	1	214	4	3.7	231
2004	8	1	214	5	3.0	239
2004	8	1	214	6	3.3	275
2004	8	1	214	7	5.1	287
2004	8	1	214	8	5.2	294

2004	8	1	214	9	5.0	292
2004	8	1	214	10	5.1	305
2004	8	1	214	11	4.6	306
2004	8	1	214	12	4.1	289
2004	8	1	214	13	4.5	293
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2004	8	1	214	17	3.5	318
2004	8	1	214	18	2.8	321
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2004	8	1	214	20	1.3	178
2004	8	1	214	21	2.5	176
2004	8	1	214	22	2.7	217
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2004	8	7	220	3	3.9	308
2004	8	7	220	4	4.2	311
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2004	8	7	220	7	4.7	307
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2004	8	7	220	10	6.0	317
2004	8	7	220	11	5.4	308
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2004	8	7	220	15	6.7	308
2004	8	7	220	16	5.7	314
2004	8	7	220	17	5.1	312
2004	8	7	220	18	5.5	324
2004	8	7	220	19	4.3	319
2004	8	7	220	20	3.2	302
2004	8	7	220	21	4.3	299
2004	8	7	220	22	4.2	296
2004	8	7	220	23	4.0	292
2004	8	13	226	0	0.7	82
2004	8	13	226	1	2.0	117
2004	8	13	226	2	2.2	130
2004	8	13	226	3	2.6	135
2004	8	13	226	4	2.0	132

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2004	8	13	226	6	2.0	65
2004	8	13	226	7	2.4	58
2004	8	13	226	8	2.6	37
2004	8	13	226	9	2.0	356
2004	8	13	226	10	2.3	355
2004	8	13	226	11	3.6	325
2004	8	13	226	12	4.1	321
2004	8	13	226	13	4.1	325
2004	8	13	226	14	4.5	308
2004	8	13	226	15	4.6	306
2004	8	13	226	16	5.6	300
2004	8	13	226	17	6.4	294
2004	8	13	226	18	6.8	301
2004	8	13	226	19	4.6	321
2004	8	13	226	20	3.4	297
2004	8	13	226	21	4.4	288
2004	8	13	226	22	4.4	297
2004	8	13	226	23	3.6	287
2004	8	19	232	0	6.9	175
2004	8	19	232	1	6.6	169
2004	8	19	232	2	6.0	174
2004	8	19	232	3	5.8	179
2004	8	19	232	4	4.6	192
2004	8	19	232	5	4.4	186
2004	8	19	232	6	4.9	193
2004	8	19	232	7	4.8	207
2004	8	19	232	8	6.0	278
2004	8	19	232	9	4.1	290
2004	8	19	232	10	5.6	303
2004	8	19	232	11	6.0	297
2004	8	19	232	12	6.5	302
2004	8	19	232	13	5.2	308
2004	8	19	232	14	4.7	318
2004	8	19	232	15	5.4	318
2004	8	19	232	16	4.8	322
2004	8	19	232	17	4.2	318
2004	8	19	232	18	3.2	320
2004	8	19	232	19	2.1	295
2004	8	19	232	20	3.0	257
2004	8	19	232	21	4.2	253
2004	8	19	232	22	4.8	257
2004	8	19	232	23	5.0	266
2004	8	25	238	0	3.5	99

2004	8	25	238	1	3.3	89
2004	8	25	238	2	3.2	82
2004	8	25	238	3	3.0	78
2004	8	25	238	4	4.1	78
2004	8	25	238	5	3.9	81
2004	8	25	238	6	3.7	87
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2004	8	25	238	9	5.0	102
2004	8	25	238	10	5.1	105
2004	8	25	238	11	4.6	108
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2004	8	25	238	13	5.3	116
2004	8	25	238	14	5.0	122
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2004	8	25	238	17	4.7	153
2004	8	25	238	18	4.6	152
2004	8	25	238	19	4.0	130
2004	8	25	238	20	3.1	117
2004	8	25	238	21	5.0	140
2004	8	25	238	22	4.6	148
2004	8	25	238	23	5.3	143
2004	8	31	244	0	1.2	350
2004	8	31	244	1	1.4	290
2004	8	31	244	2	1.1	235
2004	8	31	244	3	1.1	212
2004	8	31	244	4	2.0	233
2004	8	31	244	5	3.8	272
2004	8	31	244	6	5.0	283
2004	8	31	244	7	5.1	294
2004	8	31	244	8	5.4	300
2004	8	31	244	9	3.6	291
2004	8	31	244	10	4.6	289
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2004	8	31	244	12	5.5	288
2004	8	31	244	13	7.3	294
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2004	8	31	244	17	5.8	307
2004	8	31	244	18	4.2	296
2004	8	31	244	19	3.2	275
2004	8	31	244	20	2.4	230

2004	8	31	244	21	2.7	216
2004	8	31	244	22	2.2	209
2004	8	31	244	23	2.6	198
2004	9	6	250	0	4.2	142
2004	9	6	250	1	4.8	152
2004	9	6	250	2	4.9	172
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2004	9	6	250	9	5.2	163
2004	9	6	250	10	6.0	166
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2004	9	6	250	12	6.8	168
2004	9	6	250	13	6.7	174
2004	9	6	250	14	5.6	173
2004	9	6	250	15	5.9	167
2004	9	6	250	16	5.8	165
2004	9	6	250	17	5.6	174
2004	9	6	250	18	5.7	158
2004	9	6	250	19	4.3	142
2004	9	6	250	20	4.2	134
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2004	9	6	250	23	6.8	156
2004	9	12	256	0	1.9	126
2004	9	12	256	1	3.0	184
2004	9	12	256	2	3.4	192
2004	9	12	256	3	3.7	183
2004	9	12	256	4	2.7	157
2004	9	12	256	5	3.1	173
2004	9	12	256	6	2.1	217
2004	9	12	256	7	2.6	238
2004	9	12	256	8	3.2	222
2004	9	12	256	9	2.6	223
2004	9	12	256	10	3.5	260
2004	9	12	256	11	3.4	275
2004	9	12	256	12	2.7	279
2004	9	12	256	13	2.6	254
2004	9	12	256	14	3.5	280
2004	9	12	256	15	3.5	311
2004	9	12	256	16	2.9	314

2004	9	12	256	17	2.9	313
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2004	9	12	256	19	2.9	300
2004	9	12	256	20	3.5	302
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2004	9	18	262	1	3.7	355
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2004	9	24	268	9	2.4	355
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2004	9	24	268	12	3.6	355

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2004	9	30	274	2	2.7	355
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2004	10	24	298	4	4.8	105
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2004	10	24	298	23	3.3	87
2008	5	12	133	0	3.8	96

2008	5	12	133	1	3.8	94
2008	5	12	133	2	3.6	95
2008	5	12	133	3	2.6	99
2008	5	12	133	4	2.7	87
2008	5	12	133	5	2.2	91
2008	5	12	133	6	1.6	90
2008	5	12	133	7	1.7	92
2008	5	12	133	8	2.4	83
2008	5	12	133	9	2.8	90
2008	5	12	133	10	2.7	103
2008	5	12	133	11	3.0	131
2008	5	12	133	12	3.0	115
2008	5	12	133	13	3.4	83
2008	5	12	133	14	4.3	73
2008	5	12	133	15	4.1	65
2008	5	12	133	16	4.7	68
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2008	5	12	133	18	3.6	96
2008	5	12	133	19	3.2	111
2008	5	12	133	20	2.8	127
2008	5	12	133	21	1.5	147
2008	5	12	133	22	1.0	186
2008	5	12	133	23	0.3	191
2008	5	18	139	0	2.5	251
2008	5	18	139	1	3.3	240
2008	5	18	139	2	3.6	238
2008	5	18	139	3	3.5	241
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2008	5	18	139	7	3.8	243
2008	5	18	139	8	3.4	260
2008	5	18	139	9	2.7	312
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2008	5	18	139	11	1.4	178
2008	5	18	139	12	2.4	238
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2008	5	18	139	14	2.7	214
2008	5	18	139	15	4.0	204
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2008	5	18	139	20	5.2	218

2008	5	18	139	21	3.1	234
2008	5	18	139	22	2.3	238
2008	5	18	139	23	1.7	257
2008	5	24	145	0	3.1	301
2008	5	24	145	1	3.6	305
2008	5	24	145	2	3.4	305
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2008	5	24	145	4	4.2	307
2008	5	24	145	5	3.9	313
2008	5	24	145	6	4.0	309
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2008	5	24	145	8	5.1	312
2008	5	24	145	9	5.1	317
2008	5	24	145	10	5.4	318
2008	5	24	145	11	5.1	324
2008	5	24	145	12	4.7	321
2008	5	24	145	13	5.5	319
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2008	5	24	145	15	5.9	357
2008	5	24	145	16	5.8	8
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2008	5	24	145	20	3.6	354
2008	5	24	145	21	1.9	2
2008	5	24	145	22	2.3	328
2008	5	24	145	23	1.5	313
2008	5	30	151	0	0.9	69
2008	5	30	151	1	0.8	88
2008	5	30	151	2	0.6	169
2008	5	30	151	3	0.8	96
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2008	5	30	151	6	0.9	68
2008	5	30	151	7	1.3	91
2008	5	30	151	8	2.8	113
2008	5	30	151	9	2.9	108
2008	5	30	151	10	3.0	125
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2008	5	30	151	12	2.8	108
2008	5	30	151	13	3.0	123
2008	5	30	151	14	3.3	151
2008	5	30	151	15	3.4	153
2008	5	30	151	16	4.1	195

2008	5	30	151	17	4.7	210
2008	5	30	151	18	4.3	213
2008	5	30	151	19	2.9	204
2008	5	30	151	20	4.1	227
2008	5	30	151	21	2.0	258
2008	5	30	151	22	0.7	55
2008	5	30	151	23	1.3	72
2008	6	5	157	0	2.0	82
2008	6	5	157	1	2.2	84
2008	6	5	157	2	2.1	87
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2008	6	5	157	6	2.7	94
2008	6	5	157	7	2.7	99
2008	6	5	157	8	3.3	114
2008	6	5	157	9	3.9	115
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2008	6	5	157	13	2.7	123
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2008	6	5	157	21	1.8	127
2008	6	5	157	22	1.6	98
2008	6	5	157	23	1.8	135
2008	6	11	163	0	3.6	260
2008	6	11	163	1	3.6	253
2008	6	11	163	2	3.4	245
2008	6	11	163	3	3.1	248
2008	6	11	163	4	3.3	244
2008	6	11	163	5	2.7	240
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2008	6	11	163	7	2.3	239
2008	6	11	163	8	2.7	236
2008	6	11	163	9	2.9	252
2008	6	11	163	10	3.2	293
2008	6	11	163	11	4.2	285
2008	6	11	163	12	4.0	276

2008	6	11	163	13	5.6	284
2008	6	11	163	14	5.5	298
2008	6	11	163	15	6.0	308
2008	6	11	163	16	7.2	322
2008	6	11	163	17	6.8	330
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2008	6	17	169	0	1.8	315
2008	6	17	169	1	1.4	232
2008	6	17	169	2	1.4	227
2008	6	17	169	3	1.5	262
2008	6	17	169	4	1.2	245
2008	6	17	169	5	1.4	259
2008	6	17	169	6	2.0	282
2008	6	17	169	7	2.5	296
2008	6	17	169	8	2.5	302
2008	6	17	169	9	2.0	288
2008	6	17	169	10	2.4	239
2008	6	17	169	11	1.9	239
2008	6	17	169	12	1.6	209
2008	6	17	169	13	4.4	228
2008	6	17	169	14	3.1	281
2008	6	17	169	15	1.7	293
2008	6	17	169	16	3.2	252
2008	6	17	169	17	2.9	299
2008	6	17	169	18	2.4	264
2008	6	17	169	19	2.3	223
2008	6	17	169	20	2.0	245
2008	6	17	169	21	2.4	246
2008	6	17	169	22	2.0	244
2008	6	17	169	23	2.0	244
2008	6	23	175	0	3.1	217
2008	6	23	175	1	1.7	229
2008	6	23	175	2	0.9	249
2008	6	23	175	3	0.7	206
2008	6	23	175	4	1.2	222
2008	6	23	175	5	0.5	221
2008	6	23	175	6	0.8	275
2008	6	23	175	7	1.7	228
2008	6	23	175	8	3.0	223

2008	6	23	175	9	3.3	226
2008	6	23	175	10	1.9	237
2008	6	23	175	11	2.2	222
2008	6	23	175	12	1.4	175
2008	6	23	175	13	1.9	256
2008	6	23	175	14	2.7	338
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2008	6	23	175	17	1.8	191
2008	6	23	175	18	1.6	257
2008	6	23	175	19	1.7	301
2008	6	23	175	20	0.9	309
2008	6	23	175	21	0.2	235
2008	6	23	175	22	0.4	251
2008	6	23	175	23	0.9	243
2008	6	29	181	0	1.9	136
2008	6	29	181	1	1.7	141
2008	6	29	181	2	1.5	175
2008	6	29	181	3	2.5	220
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2008	6	29	181	5	3.7	219
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2008	6	29	181	7	3.5	231
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2008	6	29	181	11	3.4	231
2008	6	29	181	12	5.0	215
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2008	6	29	181	15	6.8	207
2008	6	29	181	16	6.6	211
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2008	6	29	181	18	2.1	247
2008	6	29	181	19	1.9	247
2008	6	29	181	20	1.9	191
2008	6	29	181	21	2.8	193
2008	6	29	181	22	3.6	223
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2008	7	5	187	1	2.9	233
2008	7	5	187	2	2.9	238
2008	7	5	187	3	2.9	239
2008	7	5	187	4	0.7	269

2008	7	5	187	5	1.0	232
2008	7	5	187	6	2.1	241
2008	7	5	187	7	1.7	261
2008	7	5	187	8	2.0	301
2008	7	5	187	9	2.1	317
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2008	7	5	187	11	1.2	292
2008	7	5	187	12	1.7	296
2008	7	5	187	13	2.1	296
2008	7	5	187	14	2.4	265
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2008	7	5	187	22	3.8	225
2008	7	5	187	23	3.4	226
2008	7	11	193	0	1.0	237
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2008	7	11	193	2	1.2	242
2008	7	11	193	3	1.4	248
2008	7	11	193	4	1.5	358
2008	7	11	193	5	1.3	230
2008	7	11	193	6	0.8	86
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2008	7	11	193	9	1.0	132
2008	7	11	193	10	0.5	132
2008	7	11	193	11	0.7	79
2008	7	11	193	12	1.2	118
2008	7	11	193	13	1.2	139
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2008	7	11	193	21	1.2	233
2008	7	11	193	22	1.1	213
2008	7	11	193	23	1.5	238
2008	7	17	199	0	2.8	240

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2008	7	17	199	4	1.7	281
2008	7	17	199	5	0.9	306
2008	7	17	199	6	1.0	10
2008	7	17	199	7	0.9	28
2008	7	17	199	8	0.8	73
2008	7	17	199	9	1.3	85
2008	7	17	199	10	2.0	122
2008	7	17	199	11	2.4	147
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2008	7	17	199	21	3.0	202
2008	7	17	199	22	2.5	201
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2008	7	23	205	0	0.5	38
2008	7	23	205	1	1.6	2
2008	7	23	205	2	0.4	2
2008	7	23	205	3	0.5	8
2008	7	23	205	4	0.6	52
2008	7	23	205	5	0.5	62
2008	7	23	205	6	1.1	47
2008	7	23	205	7	1.3	50
2008	7	23	205	8	1.8	38
2008	7	23	205	9	1.4	41
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2008	7	23	205	18	1.7	59
2008	7	23	205	19	1.1	79
2008	7	23	205	20	0.8	44

2008	7	23	205	21	0.5	26
2008	7	23	205	22	0.8	253
2008	7	23	205	23	0.3	51
2008	7	29	211	0	1.9	267
2008	7	29	211	1	2.0	264
2008	7	29	211	2	2.2	263
2008	7	29	211	3	2.3	265
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2008	7	29	211	7	3.6	308
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2008	7	29	211	9	3.3	325
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2008	7	29	211	16	3.8	329
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2008	7	29	211	20	1.6	295
2008	7	29	211	21	0.5	285
2008	7	29	211	22	0.5	236
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2008	8	4	217	0	2.8	305
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2008	8	4	217	22	0.1	226
2008	8	4	217	23	0.4	216
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2008	8	10	223	5	0.6	63
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2008	8	16	229	0	1.0	236
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2008	8	16	229	2	1.6	237
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2008	8	16	229	9	1.2	298
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2008	8	16	229	11	1.6	277
2008	8	16	229	12	1.9	278

2008	8	16	229	13	1.7	301
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2008	8	16	229	21	2.2	240
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2008	8	28	241	17	2.4	186
2008	8	28	241	18	2.9	232
2008	8	28	241	19	1.7	212
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2008	8	28	241	21	0.6	228
2008	8	28	241	22	0.1	239
2008	8	28	241	23	0.2	237
2009	5	7	127	0	2.2	115
2009	5	7	127	1	1.7	97
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2009	5	7	127	19	1.3	230
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2009	5	7	127	21	2.3	198
2009	5	7	127	22	3.0	264
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2009	5	13	133	0	3.0	216
2009	5	13	133	1	3.1	225
2009	5	13	133	2	3.6	231
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2009	5	13	133	4	2.7	239

2009	5	13	133	5	2.1	240
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2009	5	25	145	0	1.2	326

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2009	5	31	151	12	3.0	309
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2010	8	18	230	8	1.8	284
2010	8	18	230	9	2.1	315
2010	8	18	230	10	2.2	320
2010	8	18	230	11	1.4	305
2010	8	18	231	12	1.4	270

2010	8	18	231	13	2.2	247
2010	8	18	231	14	2.0	243
2010	8	18	231	15	2.2	242
2010	8	18	231	16	2.6	243
2010	8	18	231	17	3.4	233
2010	8	18	231	18	3.7	229
2010	8	18	231	19	2.7	240
2010	8	18	231	20	2.9	230
2010	8	18	231	21	1.9	227
2010	8	18	231	22	1.4	242
2010	8	18	231	23	1.9	243
2010	8	24	236	0	1.1	98
2010	8	24	236	1	0.8	79
2010	8	24	236	2	0.7	74
2010	8	24	236	3	0.4	79
2010	8	24	236	4	0.7	94
2010	8	24	236	5	0.4	74
2010	8	24	236	6	0.5	63
2010	8	24	236	7	0.6	80
2010	8	24	236	8	1.2	90
2010	8	24	236	9	1.8	100
2010	8	24	236	10	1.7	103
2010	8	24	236	11	1.4	89
2010	8	24	237	12	1.5	118
2010	8	24	237	13	1.6	110
2010	8	24	237	14	1.8	77
2010	8	24	237	15	1.9	132
2010	8	24	237	16	1.7	115
2010	8	24	237	17	1.9	103
2010	8	24	237	18	1.9	117
2010	8	24	237	19	2.0	110
2010	8	24	237	20	1.1	123
2010	8	24	237	21	0.5	105
2010	8	24	237	22	0.3	158
2010	8	24	237	23	0.1	75
2010	8	30	242	0	2.3	242
2010	8	30	242	1	2.1	243
2010	8	30	242	2	1.9	242
2010	8	30	242	3	1.1	253
2010	8	30	242	4	2.0	244
2010	8	30	242	5	1.8	241
2010	8	30	242	6	1.7	241
2010	8	30	242	7	2.0	243
2010	8	30	242	8	1.6	241

2010	8	30	242	9	1.2	281
2010	8	30	242	10	0.8	308
2010	8	30	242	11	1.1	286
2010	8	30	243	12	1.9	297
2010	8	30	243	13	1.9	270
2010	8	30	243	14	1.9	300
2010	8	30	243	15	2.2	261
2010	8	30	243	16	1.8	280
2010	8	30	243	17	2.1	289
2010	8	30	243	18	1.6	277
2010	8	30	243	19	1.6	257
2010	8	30	243	20	2.4	247
2010	8	30	243	21	2.1	242
2010	8	30	243	22	2.9	241
2010	8	30	243	23	3.0	243

Table 4.1.2C Summary of MOE $PM_{2.5}$ Data Collected (in µg/m^3)

Station No.	Station Name	Year	Maximum (24 h)	Arithmetic Mean	Geometric Mean or 50th Percentile	Percentiles		
						70th	90th	99th
12007	Windsor	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	N/A	N/A	N/A	N/A	N/A	N/A
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	33	INS	8	12	18	35
		2002	54	12.2	9	14	26	45
12008	Windsor Downtown	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	N/A	N/A	N/A	N/A	N/A	N/A
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	40	9.4	7	12	20	41
		2002	56	9.8	7	11	21	46
29000	Hamilton Downtown	1998	67.3	15.6	12	18	32	56
		1999	54.5	14.9	12	17	30	50
		2000	39.9	15	13	18	27	47
		2001	53	11.1	9	13	23	44
		2002	43	13	10	14	26	47
29114	Hamilton Mountain	1998	64.2	16.3	12	19	34	60
		1999	54.5	12.9	10	14	27	49
		2000	32.2	11.7	9	14	24	38
		2001	43	8.1	6	9	18	38
		2002	39	8.9	6	9	21	42
71042	Sault Ste. Marie	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	25.8	INS	8	14	22	54
		2000	59.1	14.3	9	16	32	68
		2001	N/A	N/A	N/A	N/A	N/A	N/A
		2002	N/A	N/A	N/A	N/A	N/A	N/A

Notes: N/A: No value available for corresponding station and/or year
INS: Insufficient data

Table 4.1.2C Summary of MOE PM_{10} Data Collected (in µg/m^3)

Station No.	Station Name	Year	Maximum (24 h)	Arithmetic Mean	Geometric Mean or 50th Percentile	Percentiles		
						70th	90th	99th
12016	Windsor	1998	83	28.6	24	32	53	95
		1999	79	25.9	22	31	48	82
		2000	78.2	24.2	20	28	45	74
		2001	73	23	19	27	43	73
		2002	N/A	N/A	N/A	N/A	N/A	N/A
15025	London	1998	74	22.1	18	25.9	44	79
		1999	80	21.9	17	26	43	79
		2000	47.8	17.9	15	21	34	57
		2001	72	INS	16	24	39	76
		2002	59	INS	17	25	41	79
29025	Hamilton	1998	61	INS	14	20	32	61
		1999	70	INS	12	23	41	87
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	N/A	N/A	N/A	N/A	N/A	N/A
		2002	N/A	N/A	N/A	N/A	N/A	N/A

Notes: N/A: No value available for corresponding station and/or year
INS: Insufficient data

Table 4.1.2E Summary of MOE TSP Data Collected (in µg/m^3)

Station No.	Station Name	Year	Maximum (24 h)	Arithmetic Mean	Geometric Mean or 50th Percentile	Percentiles		
						70th	90th	99th
12007	Windsor	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	N/A	N/A	N/A	N/A	N/A	N/A
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	167	72.2	65	82	112	166
		2002	256	75.1	68	80	105	230
12008	Windsor Downtown	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	N/A	N/A	N/A	N/A	N/A	N/A
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	270	78.7	57	76	160	256
		2002	111	56.7	54	63	84	107
29000	Hamilton Downtown	1998	174	63.7	64	76.2	103.4	152
		1999	166	59.6	49.5	65	97.2	163.7
		2000	130	56.2	52	65	97	128
		2001	147	59.8	52	64	102	145
		2002	169	61	52	67	100	158
29114	Hamilton Mountain	1998	119	55	55	67	84	114
		1999	168	44.9	35.5	47.3	73.8	142
		2000	93	44.7	40	52	75	92
		2001	146	55.7	49	69	95	132
		2002	103	INS	45	61	83	102
71042	Sault Ste. Marie	1998	N/A	N/A	N/A	N/A	N/A	N/A
		1999	424	111.6	99	128	195.6	357.1
		2000	267	76.4	55	91	160	256
		2001	N/A	N/A	N/A	N/A	N/A	N/A
		2002	N/A	N/A	N/A	N/A	N/A	N/A
12016	Windsor	1998	198	76.3	65.5	83.9	114	191.7
		1999	120	60.3	55	69.8	102	119.5
		2000	226	77.9	67	87	125	209
		2001	154	65.5	58	70	98	151
		2002	N/A	N/A	N/A	N/A	N/A	N/A
15025	London	1998	139	59.6	55	79.4	97.4	127.2
		1999	155	52.7	44	62.1	91.1	138.7
		2000	85	36.7	34	43	61	80
		2001	168	49.5	39	59	90	149
		2002	151	52.5	48	58	76	136
29025	Hamilton	1998	199	76.7	75	95.7	120.1	184.8
		1999	173	68.9	60	78.6	113.2	170.8
		2000	N/A	N/A	N/A	N/A	N/A	N/A
		2001	N/A	N/A	N/A	N/A	N/A	N/A
		2002	N/A	N/A	N/A	N/A	N/A	N/A

Table 4.1.2F Summary of Geometric Mean $PM_{2.5}$ MOE Stations (in µg/m^3)

Eastern Ontario Stations:		Year				
Station No.	Station Name	**1998**	**1999**	**2000**	**2001**	**2002**
49010	Dorset	N/A	8	N/A	3	7
51001	Ottawa	8	8	8	6	5