October/November 2017
Air Quality Report
Metropolis Towers Site

Attached is a technical summary of air quality data for October and November 2017 at the Metropolis Towers cleanup site submitted by PPG Industries' air monitoring consultant.

This report provides air monitoring information about conditions at the perimeter associated with Site 156 (Metropolis Towers).

Also, this document notes any deviations from the monitoring plan and work schedule caused by factors beyond the control of cleanup contractors, such as inclement weather and malfunctioning equipment.

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Monthly Air Monitoring Report
Metropolis Towers Site
Jersey City, New Jersey

Reporting Period: October/November 2017

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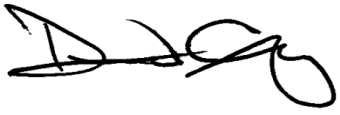
Prepared By: Carey Wu



Reviewed By: Dave Tomsey
November 16, 2017

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AAC – Acceptable Air Concentration

AMP – Air Monitoring Plan

AMS – Air Monitoring Station

Cr^{+6} – Hexavalent Chromium

FAM – Fixed Air Monitoring

LPM – Liters per Minute

ng/m^3 – Nanograms per Cubic Meter of Air

NJDEP – New Jersey Department of Environmental Protection

PM_{10} – Particulate Matter 10 Microns or less in Diameter

PPG – PPG Industries, Inc.

ppb – Parts per Billion

ppm – Parts per Million

$\mu g/m^3$ – Micrograms per Cubic Meter of Air

Executive Summary

Air monitoring conducted at the Metropolis Towers Site was completed in accordance with the Site-Specific Air Monitoring Plan (AMP), and included sampling and analysis for 8-hour integrated hexavalent chromium (Cr^{+6}) and total particulates, as well as real-time monitoring for PM_{10} at all air monitoring stations. In addition to the air monitoring conducted in accordance with the AMP, 24-hour Cr^{+6} and total particulate sampling with lab analysis was also conducted at one station. This program is designed to measure various aspects of air quality at the Site to ensure that remedial activities at the Site do not have an adverse effect on Site workers and the surrounding community.

Results of the integrated Cr^{+6} sampling and analysis indicate that program-to-date average airborne Cr^{+6} concentrations are significantly below the Acceptable Air Concentration (AAC) at each of the AMS locations. The results and calculations document continuing compliance with the current AAC set by the New Jersey Department of Environmental Protection (NJDEP), confirm that dust control measures continue to be effective, and indicate that the levels of Cr^{+6} in dust generated at the Site do not represent an emission source of Cr^{+6} sufficient to create potential offsite exposure to Cr^{+6} at or exceeding the AAC.

1.0 Introduction

This monthly air monitoring report update includes both tabular information and written discussions summarizing the ambient air quality data collected in accordance with the Air Monitoring Plan (AMP) at the Metropolis Towers Site (referred herein as Site), in Jersey City, New Jersey.

This monthly report is designed to provide a summary of the air monitoring data collected during the intrusive activities associated with Site 156 through the reporting period. This monthly report includes both monthly and program-to-date summaries of the following:

- Integrated hexavalent chromium analytical results;
- Integrated total particulate analytical results;
- Real-time 15-minute average PM_{10} readings; and
- Meteorological conditions.

Results have been evaluated and compared to the Site-specific Acceptable Air Concentration (AAC) and the Action Levels in accordance with the AMP.

2.0 Air Monitoring

This report summarizes air monitoring at the Site performed between October 1, 2017 and November 6, 2017. Remedial activities began in the western portion of the Site on September 8, 2017. Air monitoring stations provided protection during intrusive work between September 8, 2017 and November 6, 2017. The site contains four ground level stations and one elevated station. The elevated station collects Cr^{+6} and total particulate samples for 24 hours during the week and 72 hours over the weekend. **Figure 2-1** provides an overview of the Site and a typical configuration of the AMS for the Site through the end of the reporting period. **Table 2-1** provides an overview of the air monitoring approach.

Air monitoring results to date have confirmed protection of the community, and the overall effectiveness of the program will be evaluated on a continuous basis. Success will ultimately be determined at the end of the remediation program when the average Cr^{+6} concentrations at each AMS location are compared to the AAC. This monthly report has been designed to evaluate the program's effectiveness on a monthly basis and a program-to-date basis. The Cr^{+6} average concentrations measured at each AMS will continually be compared to the site-specific AAC for Cr^{+6} to confirm the effectiveness of the program. Thus, the monthly reports will focus largely on the integrated analytical results collected as part of the Cr^{+6} fence-line air monitoring.

Air monitoring data collected at the Site includes:

- 8-hour integrated Cr^{+6} and total particulate sample collection and associated laboratory analysis;
- 24-hour and 72-hour integrated Cr^{+6} and total particulate samples collection and laboratory analysis; and
- Real-time 15-minute average PM_{10}, readings measured at the perimeter.

The following sections outline the types of data collected, frequency of collection, and the corresponding locations.

Table 2-1: Air Monitoring Approach

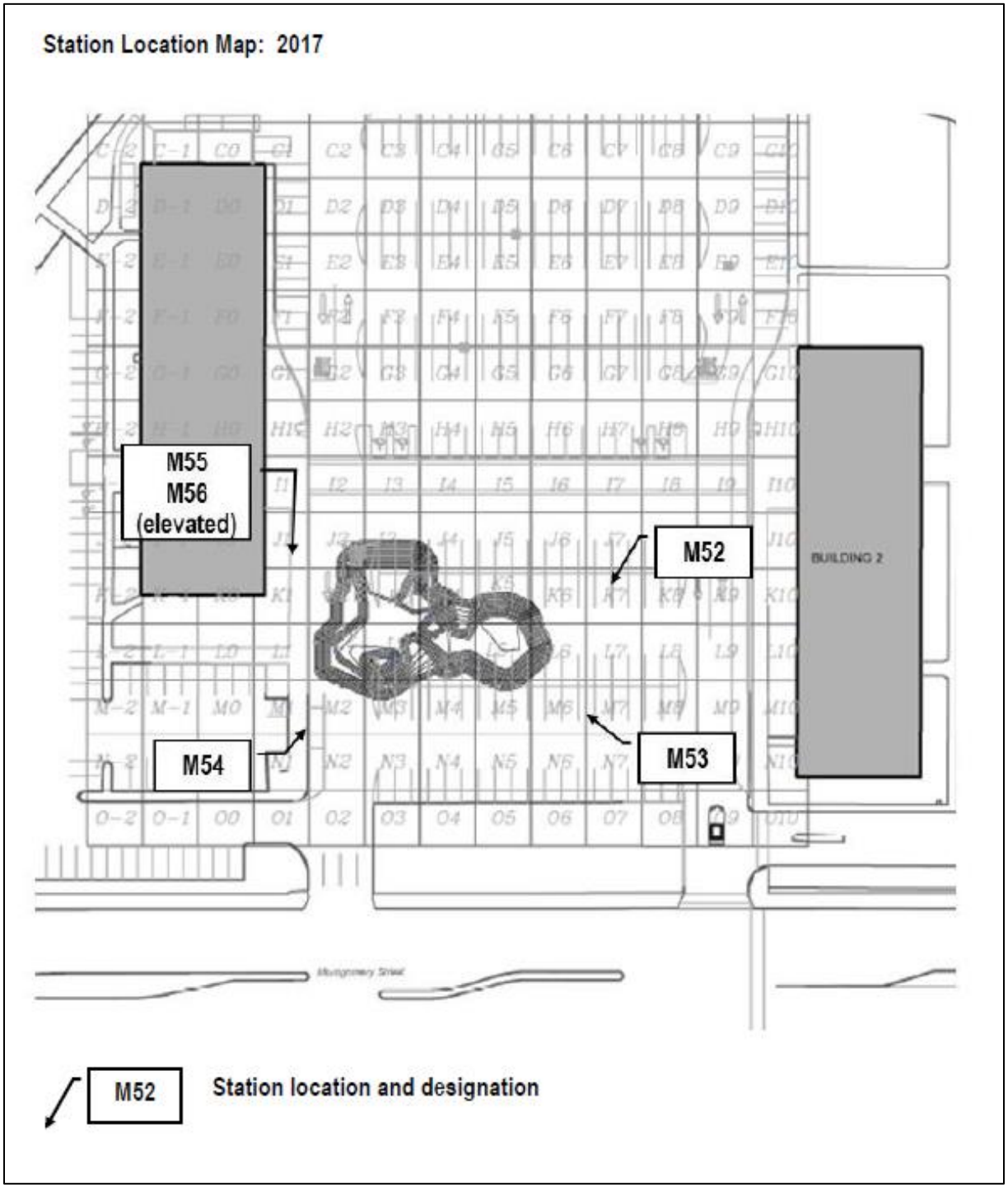
Site	Station	Integrated Air Monitoring	Real-Time Air Monitoring
Site 156	**M52, M53, M54, M55, M56**	Integrated 8-hour Cr^{+6} and total particulate sampling and analysis during work days. 24-hour and 72-hour Cr^{+6} sampling and analysis at one station 7 days per week.	15-minute average PM_{10} readings measured during a typical work day.

Note: 24-hour and 72-hour Cr^{+6} sampling was conducted at station M56 from 10/1/17 through 11/6/17 to coincide with the location of the weather station.

2.1 Integrated Air Sampling

Integrated Cr^{+6} and total particulate samples are collected at each of the AMS for an 8-hour-to-10-hour duration each working day (typically Monday – Friday). Samples are collected on a pre-weighed polyvinyl chloride 37mm filter cassette for both Cr^{+6} and total particulate. Sampling pumps operate at or around 2 liters per minute and are calibrated at the beginning and end of each sampling run.

Figure 2-1: Site Overview



2.1.1 Integrated Cr^{+6} Sampling

The exposed Cr^{+6} filters are shipped to an American Industrial Hygiene Association Industrial Hygiene Laboratory Accreditation Program-certified analytical laboratory for Cr^{+6} analysis using Modified OSHA ID 215. The sample weights are provided by the laboratory with a laboratory detection limit of 20.0 ng. The sample weights and flow information are utilized to calculate 8-hour-to-10-hour integrated Cr^{+6} air concentrations in nanograms per cubic meter of air (ng/m^3). Filter weights reported as non-detect are included in the concentration calculation at one-half the laboratory detection limit for data reporting purposes.

In addition to sampling performed during working hours, 24-hour and 72-hour Cr^{+6} sampling and analysis are also performed at one AMS. These longer duration samples show Cr^{+6} concentrations during overnight and weekend periods. The 24-hour samples are typically collected daily from 7AM to 7AM Monday through Thursday, and a single 72-hour sample is collected from 7AM Friday through 7AM Monday.

2.1.2 Integrated Total Particulate Sampling

The exposed total particulate filters are shipped to an American Industrial Hygiene Association Industrial Hygiene Laboratory Accreditation Program-certified analytical laboratory for total particulate analysis using NIOSH Method 0500. The sample weights are provided by the laboratory with a laboratory detection limit of 100 ug. The sample weights and flow information are utilized to calculate 8-hour-to-10-hour integrated total particulate air concentrations in micrograms per cubic meter of air ($\mu g/m^3$). Filter weights reported as non-detect are included in the concentration calculation at one half the laboratory detection limit for data reporting purposes.

2.2 Real-Time Air Monitoring

Real-time air monitoring is divided into two types of monitoring including: perimeter monitoring and meteorological monitoring. Each monitoring type is described in more detail in the following sections.

2.2.1 Perimeter

Perimeter air monitoring consists of ground level stations at the perimeter of the Site. Perimeter monitoring includes the following:

- Real-time 15-minute average PM_{10} readings at each AMS location. All AMS operate 8-10 hours during remedial activities, Monday through Friday.

2.2.2 Meteorological Measurements

Meteorological measurements of 15-minute average wind speed and direction, relative humidity, pressure, and temperature are recorded onsite at station M55, 24-hours a day, seven days a week.

3.0 Site-Specific Acceptable Air Concentration and Real-Time Action Levels

Site-specific Acceptable Air Concentration (AAC) and real-time Action Levels have been developed for Cr^{+6} and real-time PM_{10} concentrations by NJDEP as part of the approved AMP, in compliance with risk assessment procedures. The AAC and real-time Action Levels have been developed to protect off-site receptors from potential adverse health impacts from Cr^{+6} and particulates over the duration of the intrusive remediation activities.

Real-time monitoring and integrated results are compared against the AAC and the real-time action levels to alert Site management of the potential need to enhance control of emissions and curtail operations to maintain concentrations at levels below the specified criteria. The AAC and real-time action levels for integrated Cr^{+6} concentrations and real-time PM_{10} are outlined in the following sections.

3.1 Integrated Cr^{+6} Acceptable Air Concentration

A Site-specific Cr^{+6} AAC has been developed by NJDEP to protect off-site receptors from potential adverse health impacts due to potential exposure to Cr^{+6} in dust. The AAC for Cr^{+6} was developed to represent the maximum allowable average concentration of Cr^{+6} in the air at each AMS over the project duration. In accordance with New Jersey regulatory requirements, the AAC represents a maximum level corresponding to a one-in-one-million (1E-06) excess cancer risk to nearby residents due to potential exposure to Cr^{+6} emanating from the Site.

The AAC of 487 ng/m^3 is applicable at the perimeter and represents the maximum allowable average concentration measured over the project duration and was developed to ensure the protection of human health. This AAC is also used to evaluate the effectiveness of dust control. PPG has established an operational goal of achieving a project average hexavalent chromium air concentration of 49 ng/m^3 to the extent practicable using best management practices throughout the duration of intrusive remedial activities at the site.

To ensure ongoing compliance with the AAC, shorter duration rolling averages are utilized to provide for the early and regular assessment of performance trends and, if necessary, allow for responsive corrective measures to be implemented to ensure that emissions of Cr^{+6} are maintained well below the AAC over the duration of the project, and are minimized to the greatest extent practicable. These shorter duration average concentrations metrics include: program-to-

date, 90-day, 60-day, and 30-day running averages where the average Cr^{+6} concentration over the previous 90-day, 60-day, and 30-day periods are calculated for each sample day. Sampling days are considered days where routine sampling was conducted (typically Monday – Friday). The shorter term average concentrations are compared against the list of metrics provided in Table 3-1 which also depicts respective response actions.

Table 3-1: Running Cr^{+6} Metrics

Metric Observation	Response Action
30-day[1] Cr^{+6} average concentration greater than or equal to 45 ng/m3	External meeting to review levels, evaluate activities each day when elevated concentrations were observed, and trigger corrective action if required.
60-day[1] Cr^{+6} average concentration greater than or equal to 40 ng/m3	
90-day[1] Cr^{+6} average concentration greater than or equal to 35 ng/m3	
[1] Refers to days on which samples were collected, not necessarily calendar days	

3.2 Real-Time Alert and Action Levels

Real-time Alert and Action Levels were designed to monitor and assist in control of Site emissions to ensure protection of human health, and represent an important aspect of the remedial program at the Site. The real-time Alert and Action Levels used on Site are shown in Table 3-2.

Table 3-2: Site-specific Alert and Action Levels

Parameter	Alert Level (15-min TWA)	Action Level (15-min TWA)
PM_{10}	255 µg/m^3	339 µg/m^3

4.0 Air Sampling and Monitoring Results

Results of air sampling and monitoring conducted between October 1, 2017 and November 6, 2017 are summarized herein. The following sections present both tabular and written discussions of the air sampling and monitoring results for the reporting period including:

- Monthly integrated and real-time results;
- Program-to-date integrated and real-time statistics;
- Evaluation of program success versus the Site-specific AAC and action levels; and
- Meteorological results

Air sampling and monitoring results are presented in detail in the Appendices of this report. Appendix A includes summary of the air sampling and monitoring results for the reporting period. Appendix B includes program-to-date statistics and monthly comparison of results.

4.1 Integrated Air Sampling Results

Results of the integrated Cr^{+6} and total particulate sampling and analysis are presented in the following sections.

4.1.1 Cr^{+6} Sampling Results

Results of the Cr^{+6} sampling from the reporting period and a program-to-date evaluation are discussed in the following sections.

Reporting Period

Individual integrated 8-hour Cr^{+6} concentrations measured during the reporting period are presented in Table A-1. If an individual sample result exceeds 80% of the project duration AAC, additional evaluation and review of relevant Site conditions and activities were performed to potentially modify procedures if necessary to reduce the potential for increasing Cr^{+6} concentration trends. Any elevated concentration data during the reporting period are listed and discussed in Table A-3.

Program-to-date

Sampling and analytical statistics for integrated 8-hour Cr^{+6} results are shown in Table B-1 and include various program-to-date metrics relative to Cr^{+6} analytical data. Monthly average 8-hour Cr^{+6} concentration results are shown in Table B-2 for each AMS location.

Table 4-1: Short-Term Average 8-hour Integrated Cr^{+6} Metrics

Running Cr^{+6} Metrics[1]		Site 156				
	Metric (ng/m^3)	**AMS-1 ng/m^3**	**AMS-2 ng/m^3**	**AMS-3 ng/m^3**	**AMS-4 ng/m^3**	**AMS-5 ng/m^3**
30-day[2]	**45**	4.2	4.5	4.3	4.3	1.0
60-day[2]	**40**	4.2	4.6	4.4	4.4	1.0
90-day[2]	**35**	N/A	N/A	N/A	N/A	N/A
PTD[3]		4.2	4.6	4.4	4.4	1.2

ng/m^3 – nanograms per cubic meter

1. Running Cr^{+6} metrics are utilized to provide for the early and regular assessment of performance trends and, if necessary, allow for responsive corrective measures to be implemented ensuring that emissions of Cr^{+6} are maintained well below the AAC over the duration of the project, and are minimized to the greatest extent practicable. The running Cr^{+6} metrics are designed to evaluate the program success on short duration intervals (monthly) and do not represent the long-term (program) ending success.
2. Running Cr^{+6} metrics are valid on the last day in the report period and include the previous 30, 60, or 90-days of sample results. 90-day metrics were not available due to the short duration of sampling during this phase of the project.
3. Program-to-date - Air monitoring conducted from September 8, 2017 through the end of the reporting period.

4.1.2 Total Particulate Sampling Results

Results of the 8-hour integrated total particulate sampling and analysis from the reporting period and program-to-date results are discussed in the following sections.

Reporting Period

Individual integrated 8-hour total particulate concentrations measured at each station during the reporting period are presented in Table A-2.

Program-to-date

Sampling and analytical statistics for integrated total particulate are shown in Table B-3 and include various metrics relative to total particulate analytical data. Monthly average total particulate concentration results are shown in Table B-4 for each AMS.

4.1.3 Integrated Air Sampling Results Summary

There have been 42 sample days between September 8th and the end of the reporting period for stations M52 through M56. The results of the sample analysis are summarized in the following sections.

Air Monitoring

The program through this reporting period shows the 8-hour Cr^{+6} average concentrations, based upon lab analytical results at each AMS, were less than 0.94% of the AAC, demonstrating that the dust control measures continue to be effective.

4.2 Real-Time Air Monitoring Results

Real-time air monitoring for PM_{10} is conducted during all remedial activities. The results of the real-time air monitoring are presented in the following sections.

4.2.1 PM_{10} Monitoring Results

Results of the real-time PM_{10} sampling for the reporting period and the start of intrusive activities are discussed in the following sections.

Reporting Period

Real-time 15-minute PM_{10} averages measured during the reporting period are presented in Figure A-1. Real-time 15-minute PM_{10} averages were compared directly to the PM_{10} Action Level (339 $\mu g/m^3$) and averages greater than the action level are subject to additional evaluation. If applicable, elevated PM_{10} averages are listed and discussed in Table A-3.

Program-to-date

Real-time monthly PM_{10} averages are shown in Table B-5 for each AMS. Dust readings measured during the reporting period are similar to those during the baseline period (when no intrusive activities were occurring). This indicates that dust control measures during intrusive activities have been effective.

4.3 Meteorological Monitoring Results

Time series plots for wind speed, temperature, and relative humidity for the reporting period are show in Figure A-2 through Figure A-4, respectively.

4.4 Site Activities

Activities which occurred on the site during the month of October thru November included:

- Excavate and load out chromium-impacted soils;
- Backfill excavation;

4.5 Site Map(s)

Site maps during the reporting period are documented and included in Figure A-5.

5.0 Conclusions

Results of the October/November 2017 reporting period for the Metropolis Towers Site air sampling and monitoring program indicate that the average Cr^{+6} concentrations for each AMS are well below the site safety goal of 49 ng/m^3 and below the AAC of 487 ng/m^3. The Cr^{+6} concentrations and the percent Cr^{+6} in dust samples through this period demonstrate that the dust control measures continue to be effective at maintaining concentrations of Cr^{+6} in airborne dust at the Site well below the AAC. These results indicate that dust generated at the Site contains very small percentages of Cr^{+6} and does not represent an emission source of Cr^{+6} sufficient to create potential offsite exposure to Cr^{+6} at or exceeding the AAC.

Appendix A

Monthly Results Summaries

- Integrated 8-hour Cr^{+6} Concentrations
- Integrated 8-hour Total Particulate Concentrations
- Real-time PM^{10} Readings
- Meteorological Data
- Site Map

Table A- 1: Daily Integrated 8-hour Cr^{+6} Sampling Results

Date of Sample	M52	M53	M54	M55	M56
Sunday, October 01, 2017					4.75
Monday, October 02, 2017	3.95	4.30	4.15	4.10	1.40
Tuesday, October 03, 2017	3.95	4.35	4.15	4.10	1.40
Wednesday, October 04, 2017	4.15	4.50	4.30	4.30	1.40
Thursday, October 05, 2017	4.05	4.40	4.20	4.20	1.45
Friday, October 06, 2017	4.05	4.40	4.15	4.30	0.48
Saturday, October 07, 2017					0.48
Sunday, October 08, 2017					0.48
Monday, October 09, 2017	3.70	4.05	3.90	3.90	1.35
Tuesday, October 10, 2017	4.60	4.95	4.80	4.80	1.45
Wednesday, October 11, 2017	4.15	4.55	4.35	4.35	1.45
Thursday, October 12, 2017	4.40	4.75	4.55	4.55	1.45
Friday, October 13, 2017	4.60	5.00	4.80	4.85	0.47
Saturday, October 14, 2017					0.47
Sunday, October 15, 2017					0.47
Monday, October 16, 2017	4.55	4.95	4.75	4.80	1.45
Tuesday, October 17, 2017	4.00	4.35	4.15	4.20	1.40
Wednesday, October 18, 2017	4.20	4.55	4.40	4.40	1.45
Thursday, October 19, 2017	4.05	4.40	4.20	4.20	1.40
Friday, October 20, 2017	4.25	4.60	4.40	4.40	0.48
Saturday, October 21, 2017					0.48
Sunday, October 22, 2017					0.48
Monday, October 23, 2017	4.00	4.40	4.25	4.25	1.40
Tuesday, October 24, 2017	4.10	4.40	4.35	4.35	1.40
Wednesday, October 25, 2017	4.60	5.00	4.80	4.80	1.45
Thursday, October 26, 2017	4.45	4.80	4.60	4.60	1.45
Friday, October 27, 2017	4.45	4.90	4.70	4.70	0.48
Saturday, October 28, 2017					0.48
Sunday, October 29, 2017					0.48
Monday, October 30, 2017	4.40	4.75	4.55	4.55	1.45
Tuesday, October 31, 2017	4.25	4.60	4.40	4.40	1.40
Wednesday, November 01, 2017	4.45	4.80	4.60	4.60	1.45
Thursday, November 02, 2017	4.15	4.50	4.30	4.30	1.45
Friday, November 03, 2017	4.70	5.00	4.90	4.90	0.48
Saturday, November 04, 2017					0.48
Sunday, November 05, 2017					0.48
Monday, November 06, 2017	4.65	5.00	4.85	4.85	1.25

Results in nanograms per cubic meter

Highlighted cells indicate a detectable level of Cr^{+6}. All other values are below the laboratory method detection limit (MDL). Values below the MDL are shown in the table at one-half the MDL for data reporting purposes. This established practice is consistent with PPG's Site 114 reporting of non-detects by AECOM.

Table A- 2: Daily Integrated 8-hour Total Particulate Sampling Results

Date of Sample	M52	M53	M54	M55	M56
Sunday, October 01, 2017					4.60
Monday, October 02, 2017	38.50	42.00	40.50	40.00	14.00
Tuesday, October 03, 2017	38.50	42.50	40.50	40.50	14.00
Wednesday, October 04, 2017	40.50	44.00	42.00	42.00	14.00
Thursday, October 05, 2017	39.50	43.00	41.00	41.00	14.00
Friday, October 06, 2017	39.50	43.00	40.50	42.00	4.65
Saturday, October 07, 2017					4.65
Sunday, October 08, 2017					4.65
Monday, October 09, 2017	36.00	39.50	38.00	38.00	13.00
Tuesday, October 10, 2017	45.00	48.00	46.50	47.00	14.50
Wednesday, October 11, 2017	40.50	44.50	47.50	42.50	14.00
Thursday, October 12, 2017	42.50	46.50	44.50	44.00	14.00
Friday, October 13, 2017	45.00	49.00	47.00	47.00	4.60
Saturday, October 14, 2017					4.60
Sunday, October 15, 2017					4.60
Monday, October 16, 2017	44.50	48.00	46.00	47.00	14.00
Tuesday, October 17, 2017	39.00	42.50	40.50	40.50	14.00
Wednesday, October 18, 2017	41.00	44.50	42.50	42.50	14.00
Thursday, October 19, 2017	39.50	43.00	41.00	41.00	14.00
Friday, October 20, 2017	41.50	44.50	43.00	43.00	4.65
Saturday, October 21, 2017					4.65
Sunday, October 22, 2017					4.65
Monday, October 23, 2017	39.00	43.00	41.50	41.50	29.00*
Tuesday, October 24, 2017	40.00	43.00	120.00*	42.00	29.00*
Wednesday, October 25, 2017	44.50	48.50	46.50	46.50	14.00
Thursday, October 26, 2017	43.00	47.00	45.00	45.00	14.00
Friday, October 27, 2017	43.00	47.50	45.50	45.50	4.65
Saturday, October 28, 2017					4.65
Sunday, October 29, 2017					4.65
Monday, October 30, 2017	42.50	46.50	44.50	44.50	14.00
Tuesday, October 31, 2017	41.50	45.00	43.00	43.00	14.00
Wednesday, November 01, 2017	87.00*	47.00	45.00	45.00	29.00*
Thursday, November 02, 2017	40.00	43.50	42.00	42.00	14.00
Friday, November 03, 2017	46.00	49.50	47.50	47.50	11.00*
Saturday, November 04, 2017					11.00*
Sunday, November 05, 2017					11.00*
Monday, November 06, 2017	45.00	49.00	47.00	47.00	12.00

Results in micrograms per cubic meter

Highlighted cells indicate a detectable level of total particulate. All other values are below the laboratory method detection limit (MDL). Values below the MDL are shown in the table at one-half the MDL for data reporting purposes. This established practice is consistent with PPG's Site 114 reporting of non-detects by AECOM.

* Elevated readings due to clean backfill placement.

Figure A- 1: Real-Time 15-minute average PM_{10} Monitoring Results

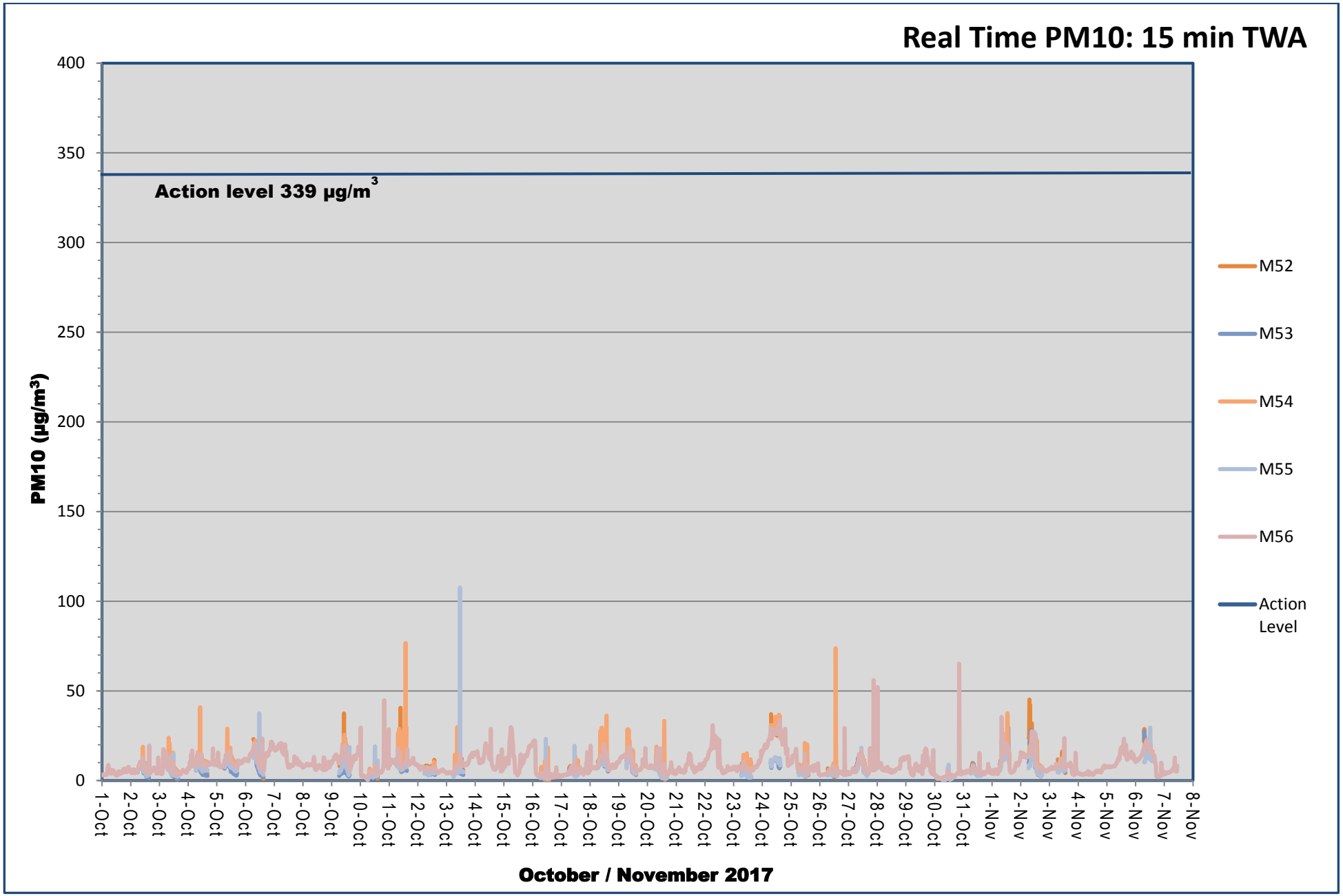


Table A- 3: Elevated Concentration Summary

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Explanation
NA	NA	NA	NA	NA	NA	NA

PM_{10} – Respirable Particulate Matter measured in micrograms per cubic meter ($\mu g/m^3$)

ng/m^3 – nanograms per cubic meter

$\mu g/m^3$ – micrograms per cubic meter

NA – Not Applicable

ND –No Data

Figure A-2: Wind Speed

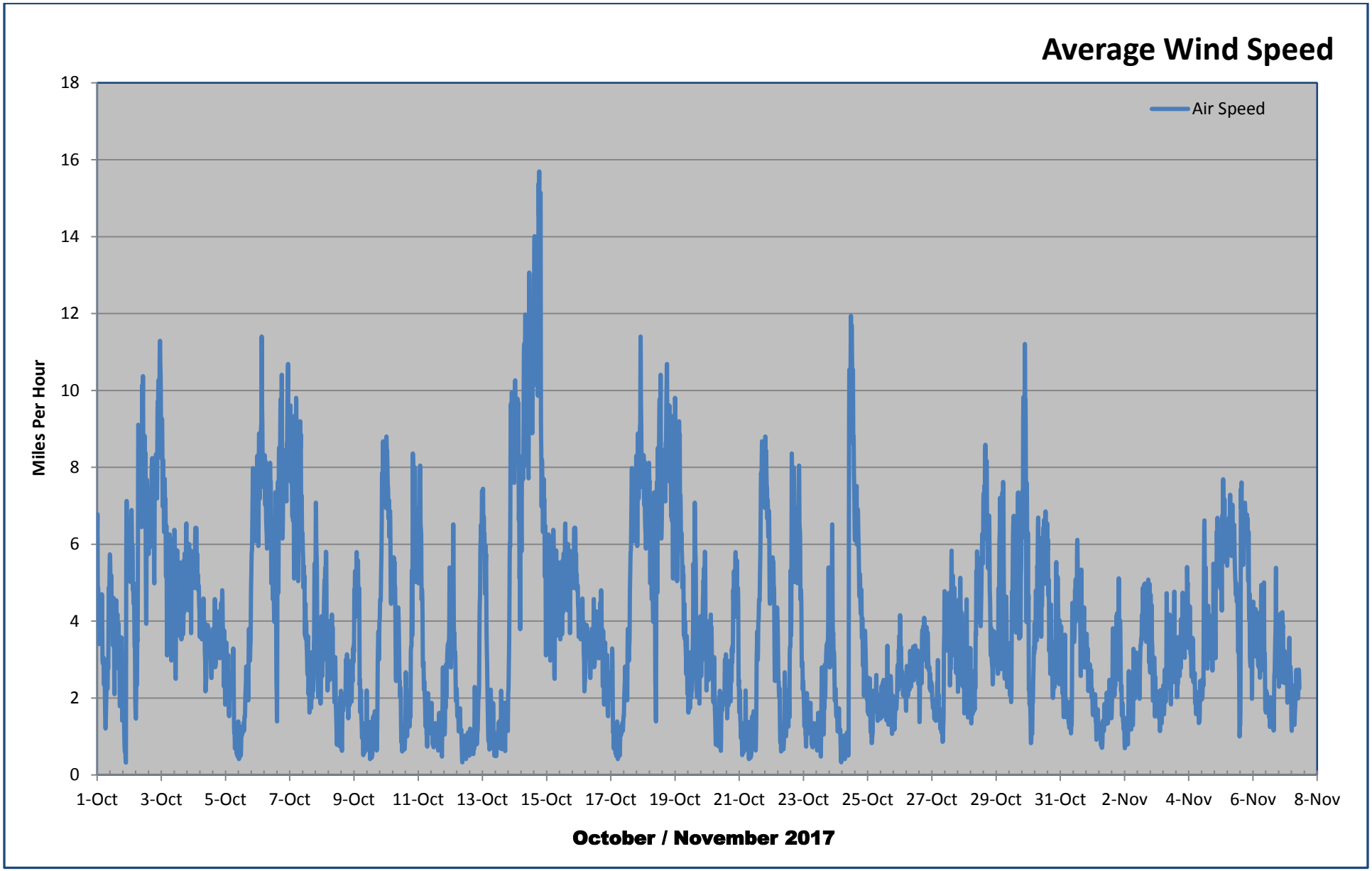


Figure A-3: Temperature

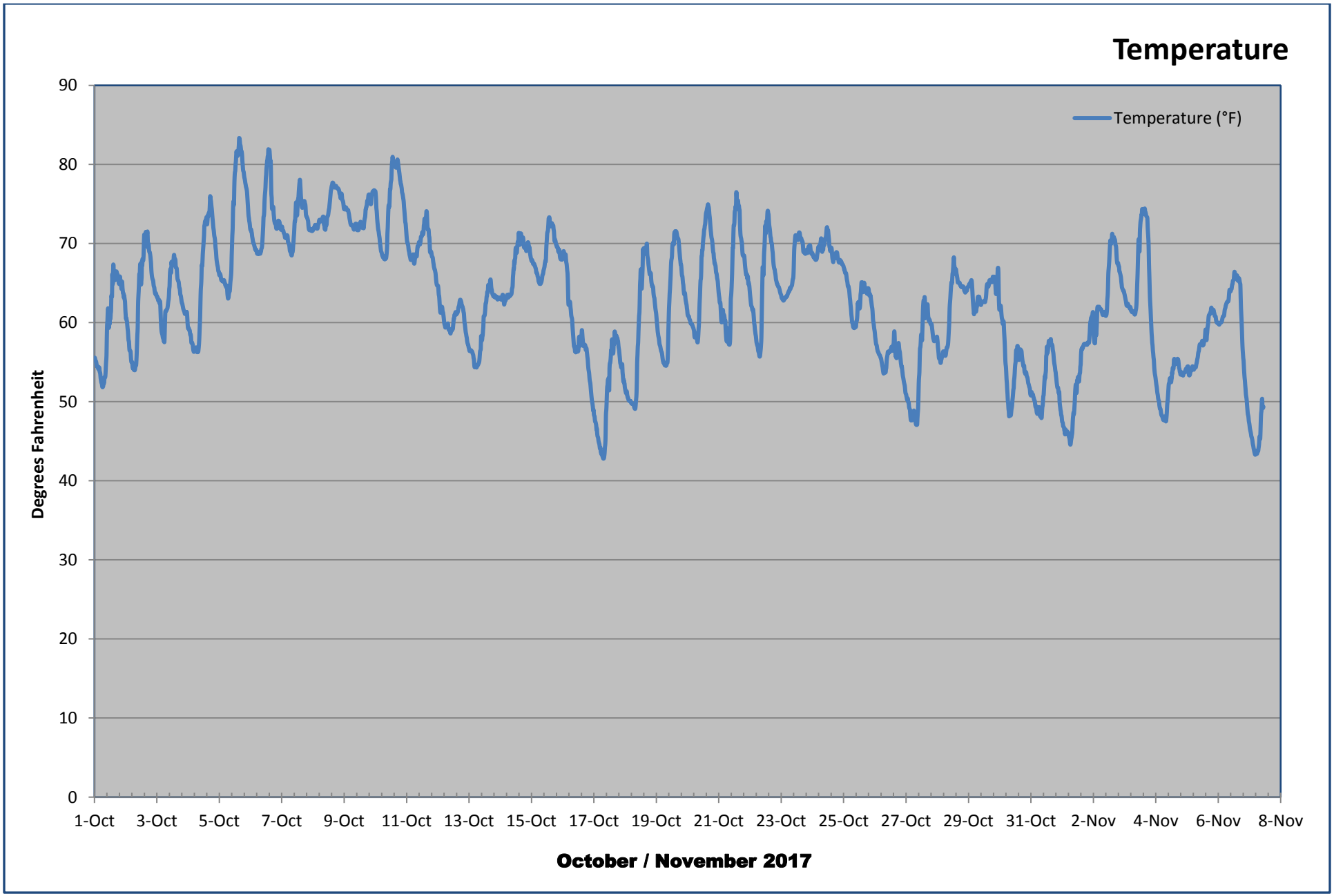


Figure A-4: Relative Humidity

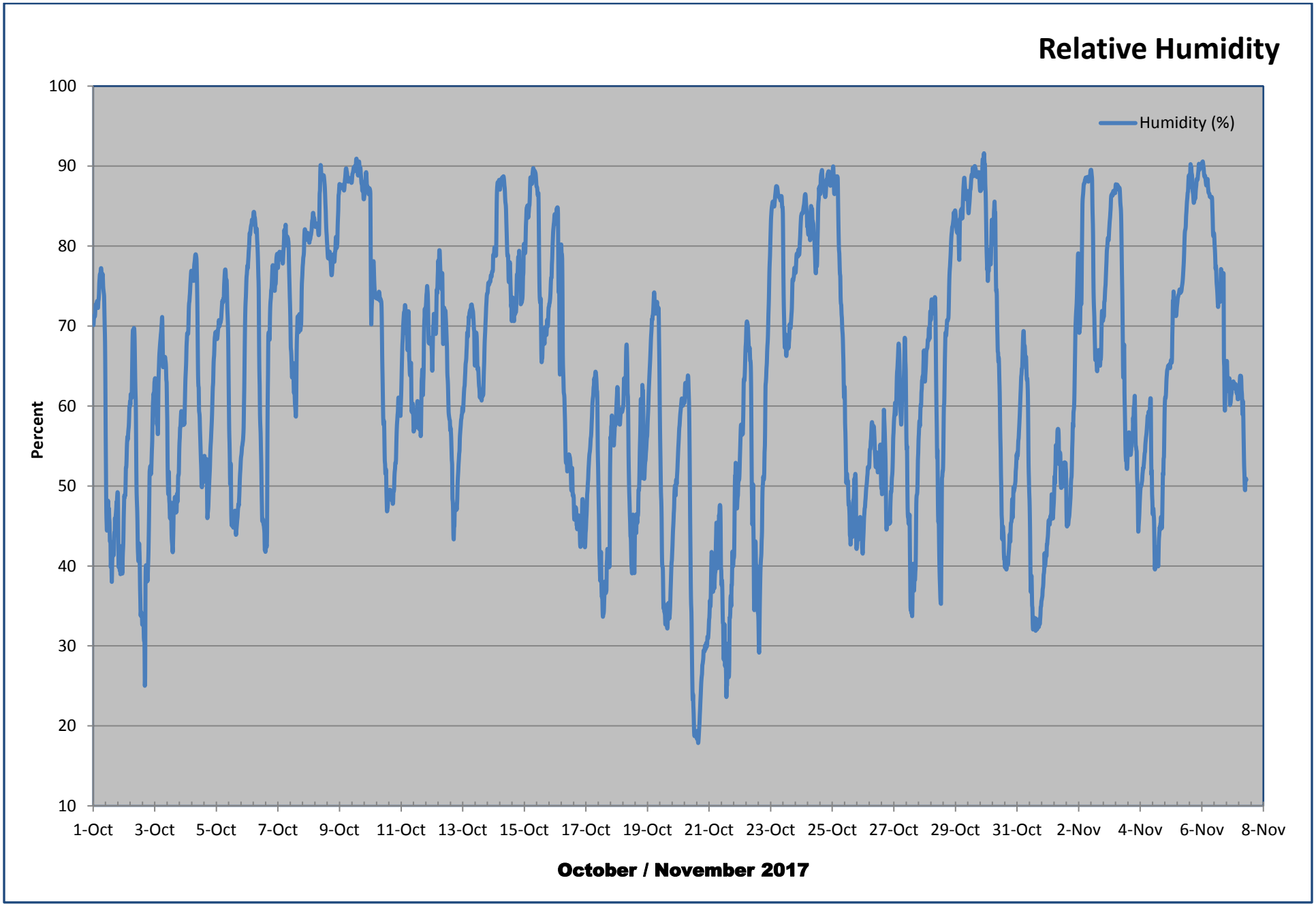
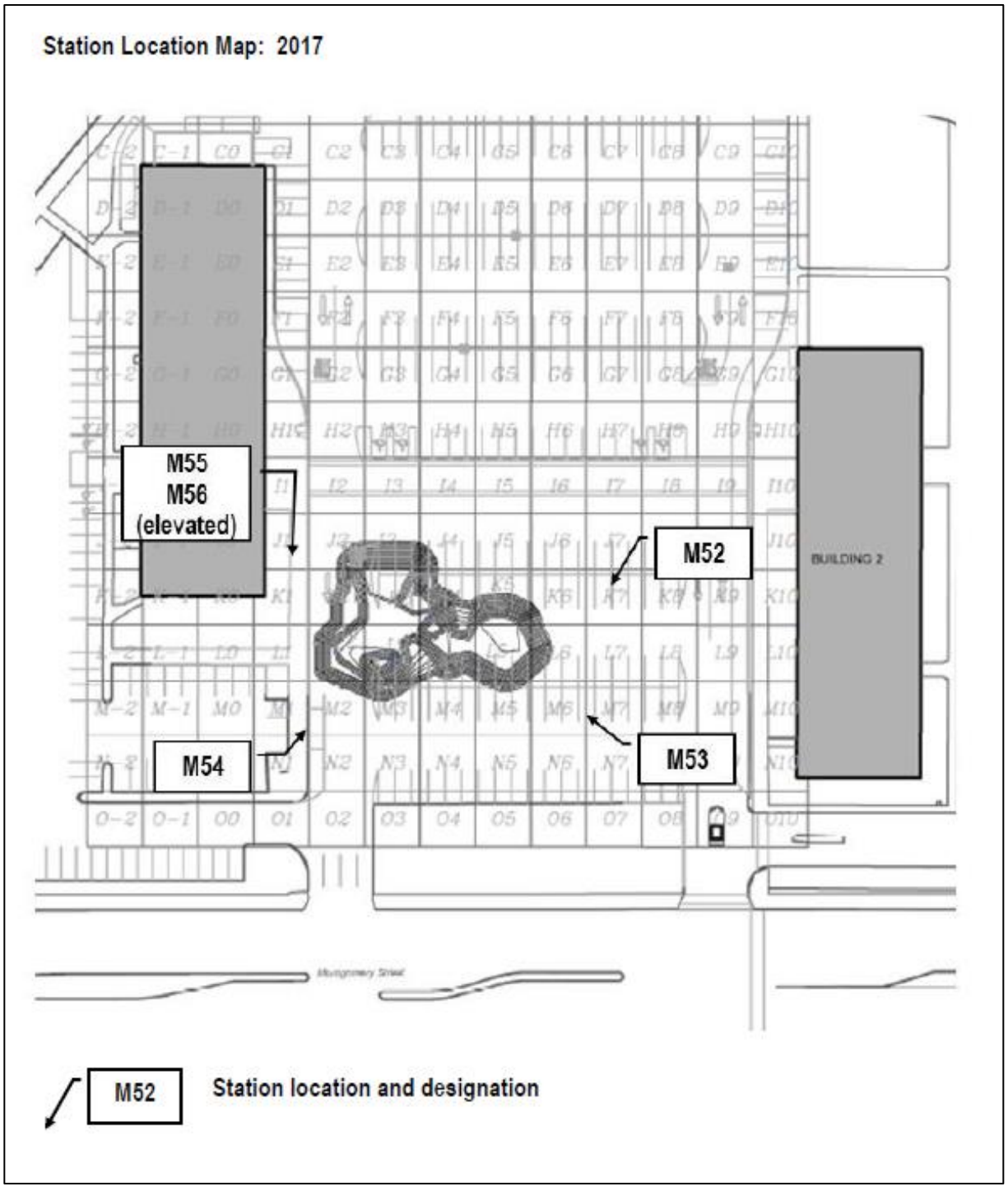


Figure A–5: Site Map Site 156 (09.08.17 – End of Reporting Period)



Appendix B

Program-to-date Result Summaries

- Integrated 8-hour Cr^{+6} Concentration Summaries
- Integrated 8-hour Total Particulate Concentration Summaries
- Real-time PM^{10} Concentrations Summaries

Table B- 1: Program-to-date Integrated 8-hour Cr^{+6} Sampling Results Statistics

Statistics[1]	Sites 156				
	M52	**M53**	**M54**	**M55**	**M56**
Total Number of Samples[1]	42	42	42	42	42
Rate of Data Collection	100%	100%	100%	100%	100%
Number of Detected Samples[2]	0	0	0	0	0
% of Cr^{+6} Samples Greater than MDL	0.0%	0.0%	0.0%	0.0%	0.0%
Number of Samples Above AAC	0	0	0	0	0
Average % Cr^{+6} in Dust[3]	0.010%	0.010%	0.010%	0.010%	0.009%
Maximum % Cr^{+6} in Dust[3]	0.010%	0.010%	0.010%	0.010%	0.010%

Results in ng/m^3 – nanograms per cubic meter

[1] Total number of samples collected since September 8, 2017. Variations in the number of samples collected are specifically identified in Table A-1 within the report month of the variation. In general variations are caused by sampler malfunctions, site activities, weather conditions, etc.

[2] Total number of sample results since September 8, 2017 reported above the laboratory reporting limit.

[3] The program-to-date average and maximum percent Cr^{+6} in dust was calculated using all the integrated Total Particulate and Cr^{+6} sample results collected since September 8, 2017.

Table B- 2: Monthly Average Integrated 8-hour Cr^{+6} Sampling Results

Statistics	Sites 156				
	M52	M53	M54	M55	M56
September	4.2	4.5	4.4	4.4	1.0
October	4.2	4.6	4.4	4.4	1.0
November	4.5	4.8	4.7	4.7	0.9
Program to Date	4.2	4.6	4.4	4.4	1.0
All readings in ng/m^3 – nanograms per cubic meter					

Table B- 3: Program-to-date Integrated Total Particulate 8-hour Sampling Results Statistics

Statistics	Sites 156				
	M52	**M53**	**M54**	**M55**	**M56**
Total Number of Samples[1]	42	42	42	42	42
Rate of Data Collection	100%	100%	100%	100%	100%
Number of Detected Samples[2]	1	0	2	0	6
% Detection	2.4%	0.0%	4.8%	0.0%	14%

Results in ng/m^3 – nanograms per cubic meter

[1] Total number of samples collected since September 8, 2017. Variations in the number of samples collected are specifically identified in Table A-1 within the report month of the variation. In general variations are caused by sampler malfunctions, site activities, weather conditions, etc.

[2] Total number of sample results since September 8, 2017 reported above the laboratory reporting limit.

Table B- 4: Monthly Average Integrated 8-hour Total Particulate Sampling Results

Statistics	Sites 156				
	M52	M53	M54	M55	M56
September	40.7	43.6	50.0	42.2	17.1
October	41.1	44.8	46.7	43.0	11.0
November	54.5	47.3	45.4	45.4	14.7
Program to Date	42.2	44.6	47.8	42.9	13.7
All readings in µg/m^3 – micrograms per cubic meter					

Table B- 5: Monthly Average Real-Time PM_{10} Monitoring Results

Statistics	Sites 156				
	M52	M53	M54	M55	M56
September	9.3	6.3	13.2	9.0	11.3
October	7.8	5.6	10.2	6.0	8.8
November	14.3	12.5	14.4	10.3	9.3
Program to Date	9.0	6.5	11.8	7.6	9.8
All readings in µg/m^3 – micrograms per cubic meter					