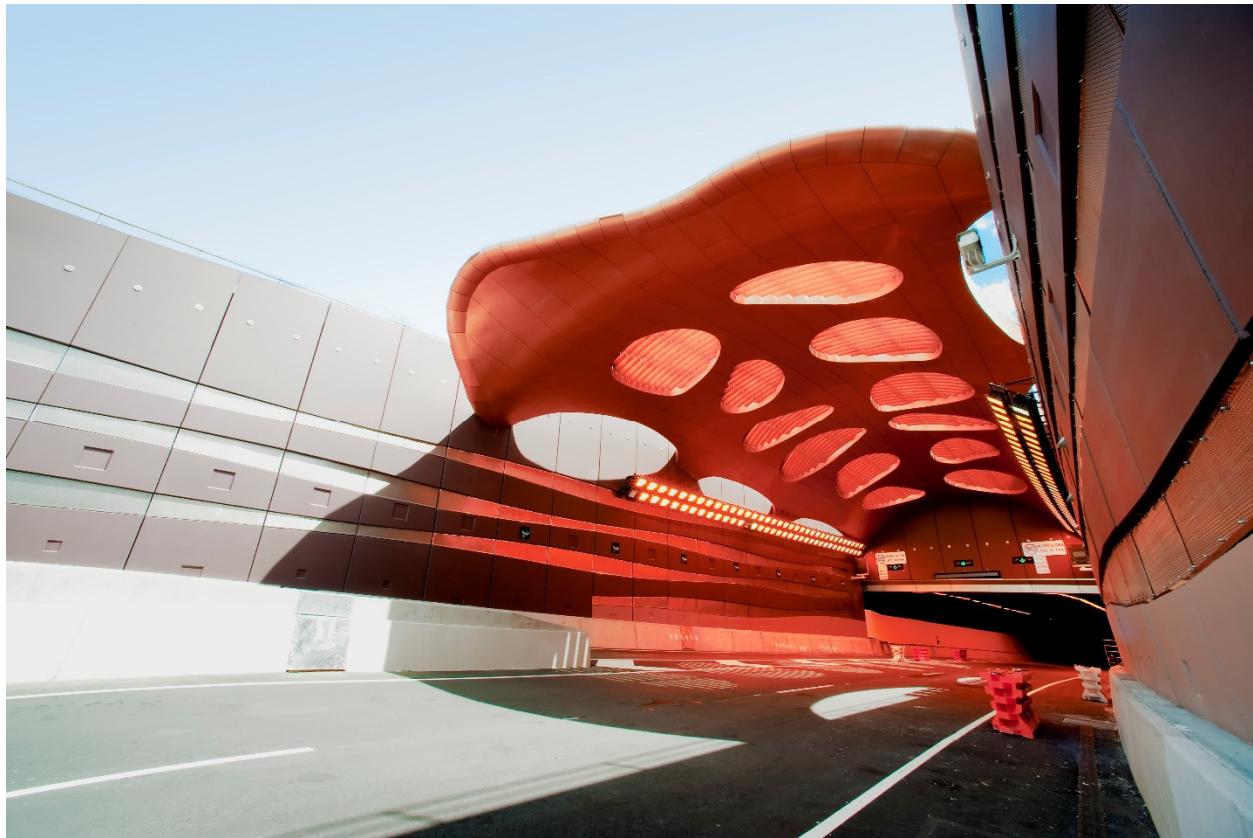


LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2019

MARCH 14, 2019



WSP



AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2019

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-00
DATE: MARCH 14, 2019

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March 14, 2019

LAFARGE CANADA INC.
Highway 1A
Exshaw, AB T0L 2C0

Attention: Janet Brygger

Dear Ms. Brygger

Subject: Ambient Air Quality Monthly Report - February 2019

The operational uptime for the meteorological systems and all analyzers at the Lagoon station was 100%, with the exception of 95.5% for NO₂ and SO₂, in February. There were zero exceedances of the 24-hour TSP Alberta Ambient Air Quality Objectives (AAAQOs), zero exceedances of the 24-hour PM_{2.5} AAAQOs, and one exceedance of the 1-hour PM_{2.5} AAAQG in February at the Lagoon monitoring location.

All analyzers at the Windridge station had 100% operational uptime in February. There were 3 exceedances of the 24-hour TSP AAAQO, zero exceedances of the 24-hour PM_{2.5} AAAQO, and zero exceedances of the 1-hour PM_{2.5} AAAQG. TSP exceedances occurred on days with high wind speeds.

Data collected at all of the GRIMM monitors are considered Industrial Ambient Monitors and are meant for assessing the performance of Lafarge Exshaw's Fugitive Dust Control Best Management Practices – Program; the GRIMM monitors are not Air Monitoring Directive (AMD) compliant. The operational uptime at the 3 monitors was as follows: 100% at the West monitor; 99.9% at the Berm monitor due to one hour of instrument maintenance; and 100% at the Entrance monitor. The West GRIMM monitor recorded one exceedance of the 24-hour PM_{2.5} Objective and zero exceedances of the 24-hour TSP Objective. The Entrance GRIMM monitor exceeded the 24-hour TSP AAAQO for 7 days and the 24-hour PM_{2.5} AAAQO for one day. The Berm GRIMM had 7 exceedances of the TSP Objective and one exceedance of the PM_{2.5} Objective.

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.

Sincerely,

Tyler Abel, M.Sc.
Group Manager, Air Quality
Environment

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PREPARED BY



March 14, 2019

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Date

APPROVED¹ BY (*must be reviewed for technical accuracy prior to approval*)



March 14, 2019

Tyler Abel, M.Sc.
Team Leader, Environmental Management,
Vancouver Region, Environment

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and the GRIMM monitors in Exshaw, AB. The station is operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and is a requirement of Lafarge's Approval 1702-02-04. This report contains data collected between February 1, 2019 and February 28, 2019.

This monthly report was prepared by Rowena Seto, Junior Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Team Leader of Environmental Management in the Vancouver Region at WSP.

2 FEBRUARY 2019 REPORT SUMMARY

This summary section provides the pertinent details on data collected and maintenance/calibration activities at each of the monitoring locations. The monitoring results for the stations are described in further detail in their corresponding sections. Maximum hourly concentrations are shown for all particulate matter size fractions, but there are no Alberta Ambient Air Quality Objectives (AAAQO) for 1-hour PM concentrations. The exceedances reported for 1-hour PM_{2.5} are those above the 1-hour PM_{2.5} Alberta Ambient Air Quality Guidelines (AAAQG).

2.1 LAGOON STATION

Table 2-1 Lagoon station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQO or AAAQG	Maximum Concentration	Exceedances of AAAQO
NO ₂ (ppb)	95.5	37.7	0 ¹	20.2	-
SO ₂ (ppb)	95.5	7.1	0	1.7	0
PM _{2.5} (µg/m ³)	100.0	86.0	1	24.5	0
PM ₁₀ (µg/m ³)	100.0	232.4	-	62.7	-
TSP (µg/m ³)	100.0	327.6	-	81.5	0
Temperature (°C)	100.0	-0.8	-	-5.9	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	39.8/W	-	27.9/WSW	-
Precipitation (mm)	100.0	0.5 ²	-	0.8 ³	-

¹ Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

² Maximum Daily Total Accumulation of Precipitation (mm)

³ Monthly Total Accumulation of Precipitation (mm)

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There was 1 hour exceeding the 1-hour PM_{2.5} AAAQG.
- There were no exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The NO₂ and SO₂ analyzers had 95.5% uptime in February due to 30 hours of instrument maintenance, specifically for the rebuilding of the sample pumps.

- All other analyzers had 100% uptime for the month of February.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQO or AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	100.0	43.0	0*	22.3	0
PM ₁₀ (µg/m ³)	100.0	393.9	-	131.5	-
TSP (µg/m ³)	100.0	665.2	-	201.2	3

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 3 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- All analyzers had 100% uptime for the month of February.

2.3 WEST GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their Fugitive Dust Control Best Management Practices – Program (FDCBMP-P). The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-3 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} ($\mu\text{g}/\text{m}^3$)	100.0	40.2	0*	31.3	1
PM ₁₀ ($\mu\text{g}/\text{m}^3$)	100.0	58.3	-	41.4	-
TSP ($\mu\text{g}/\text{m}^3$)	100.0	49.4	-	37.9	0

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 $\mu\text{g}/\text{m}^3$.

Data Quality Notes:

- There was 1 day exceeding the 24-hour PM_{2.5} AAAQG.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were no exceedances of the 24-hour TSP AAAQG.

Calibration/Maintenance Notes:

- All analyzers had 100% uptime for the month of February.

2.4 BERM GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their FDCBMP-P. The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-4 Berm station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} ($\mu\text{g}/\text{m}^3$)	99.9	68.9	0*	29.2	1
PM ₁₀ ($\mu\text{g}/\text{m}^3$)	99.9	641.6	-	193.1	-
TSP ($\mu\text{g}/\text{m}^3$)	99.9	2619.7	-	834.9	7

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 $\mu\text{g}/\text{m}^3$.

Data Quality Notes:

- There was 1 day exceeding the 24-hour PM_{2.5} AAAQG.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 7 days exceeding the 24-hour TSP AAAQG.

Calibration/Maintenance Notes:

- All analyzers had 99.9% uptime for the month of February due to 1 hour of instrument maintenance.

2.5 ENTRANCE GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their FDCBMP-P. The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-5 Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} ($\mu\text{g}/\text{m}^3$)	100.0	48.4	0*	30.0	1
PM ₁₀ ($\mu\text{g}/\text{m}^3$)	100.0	235.1	-	89.5	-
TSP ($\mu\text{g}/\text{m}^3$)	100.0	2700.0	-	678.2	7

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAFAQG) of 80 $\mu\text{g}/\text{m}^3$.

Data Quality Notes:

- There was 1 day exceeding the 24-hour PM_{2.5} AAAQG.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 7 days exceeding the 24-hour TSP AAAQG.

Calibration/Maintenance Notes:

- All analyzers had 100% uptime for the month of February.

3 LAGOON STATION

The Lagoon trailer contains NO_x, SO₂, TSP, PM₁₀, and PM_{2.5} analyzers as well as meteorological sensors, and is shown in Figure 3-1. An ambient air quality station has been at this location since 2002, providing a long-term data record for air quality in the Exshaw area.

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-2) and tables and graphs illustrating the monitoring results for February 2019.

All of the monitors comply with Alberta Environment and Parks Air Monitoring Directive (2016).

3.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 3-1.

Table 3-1 Instrumentation List at the Lagoon Station

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	No operational issues observed. The PM _{2.5} monitor was calibrated on February 20 th . The monitor had 100% uptime in February.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	No operational issues observed. The PM ₁₀ monitor was calibrated on February 20 th . The monitor had 100% uptime in February.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	No operational issues observed. The TSP monitor was calibrated on February 20 th . The monitor had 100% uptime in February.
Oxides of Nitrogen	TEI 42C	Instrument maintenance (i.e. pump rebuild) led to 30 hours of lost operational time from February 19 th at 11:00 to February 20 th at 16:00. These hours were flagged as Y for “operational maintenance carried out on the instrument.” Operational time and valid data were above 95% for the month of February, at 95.5%.
Sulphur Dioxide	Teledyne API 102A	
Precipitation	MetOne 130 Rain/Snow Gauge	No operational issues observed. The monitor had 100% uptime in February.
Wind Speed	MetOne Wind Sensor	No operational issues observed.

Wind Direction		The monitors had 100% uptime in February.
Ambient Temperature	MetOne Ambient Temperature Sensor	No operational issues observed. The monitor had 100% uptime in February.



Figure 3-1 Inlets on the top of WSP's Lagoon monitor

3.2 MONITORING RESULTS AND TRENDS

The following wind rose (Figure 3-2) illustrates the frequency of wind speed by wind direction for the month of February 2019. The wind rose (Figure 3-2) indicates that the winds predominantly came from the east-northeast direction, which is atypical for the airshed, where winds are predominantly from the southwesterly directions. This means that sources to the east of the monitors may have more of an influence on pollutant concentrations this month.

Table 3-2 summarizes the hourly and daily concentrations recorded in February 2019.

Figure 3-3 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-9 shows daily average concentrations recorded during February 2019 for the pollutants listed in Table 3-2. Additionally, Figure 3-4 to Figure 3-8 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There were zero exceedances of the 24-hour TSP (100 µg/m³) AAAQO and the 24-hour PM_{2.5} (29 µg/m³) AAAQO, and one exceedance of the 1-hour PM_{2.5} AAAQG. Burning for pine beetle control was being conducted in February and elevated PM_{2.5} concentrations could be associated with those activities, residential woodsmoke or other combustion sources in the airshed. Historically in February, the average number of 24-hour TSP AAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are both zero. The maximum number of 24-hour TSP exceedances was 2 days in 2018. The station has not recorded an exceedance of the PM_{2.5} AAAQO in February since monitoring began in 2010.

Table 3-2 Summary of February 2019 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour				24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/Meteorological Variable	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration/Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	1.0	11.9	37.7	25	23	18.5	64.2	20.2	13	95.5
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	0.7	7.1	14	10	17.5	254.9	1.7	11	95.5
PM _{2.5} (µg/m ³)	80	29	Lagoon	1	0	0.5	11.1	86.0	6	18	8.9	64.3	24.5	15	100.0
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	28.9	232.4	18	24	28.3	280.8	62.7	18	100.0
TSP (µg/m ³)	-	100	Lagoon	-	0	0.0	34.3	327.6	18	24	28.3	280.8	81.5	18	100.0
Temperature (°C)	-	-	Lagoon	-	-	-32.3	-17.0	-0.8	28	16	10.3	67.3	-5.9	22	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.5	14.9	39.8/W	22	9	39.8	258.2	27.9/WSW	19	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	0.5	20	17	10.6	78.3	0.8	-	100.0

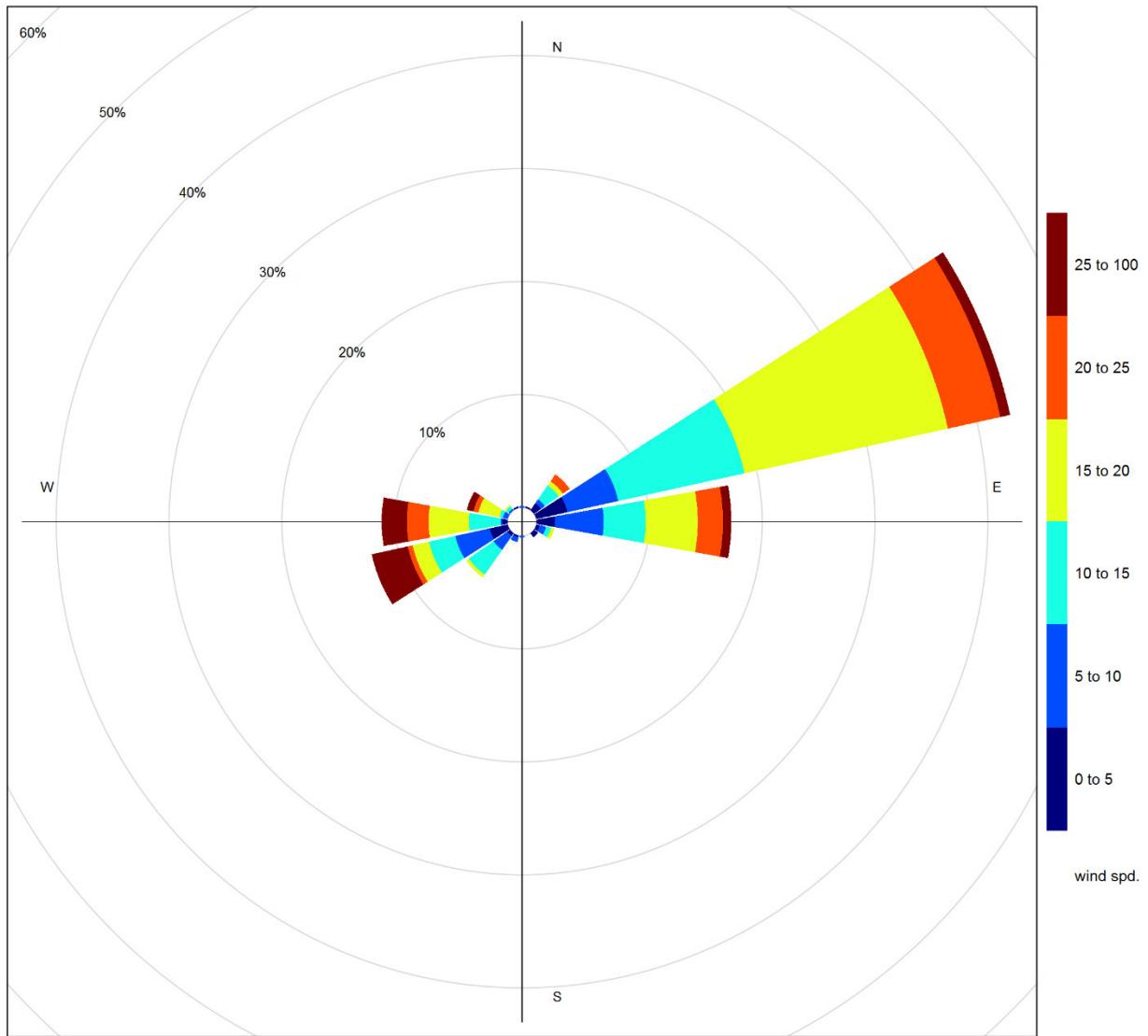


Figure 3-2 February 2019 wind rose from the Lagoon Station

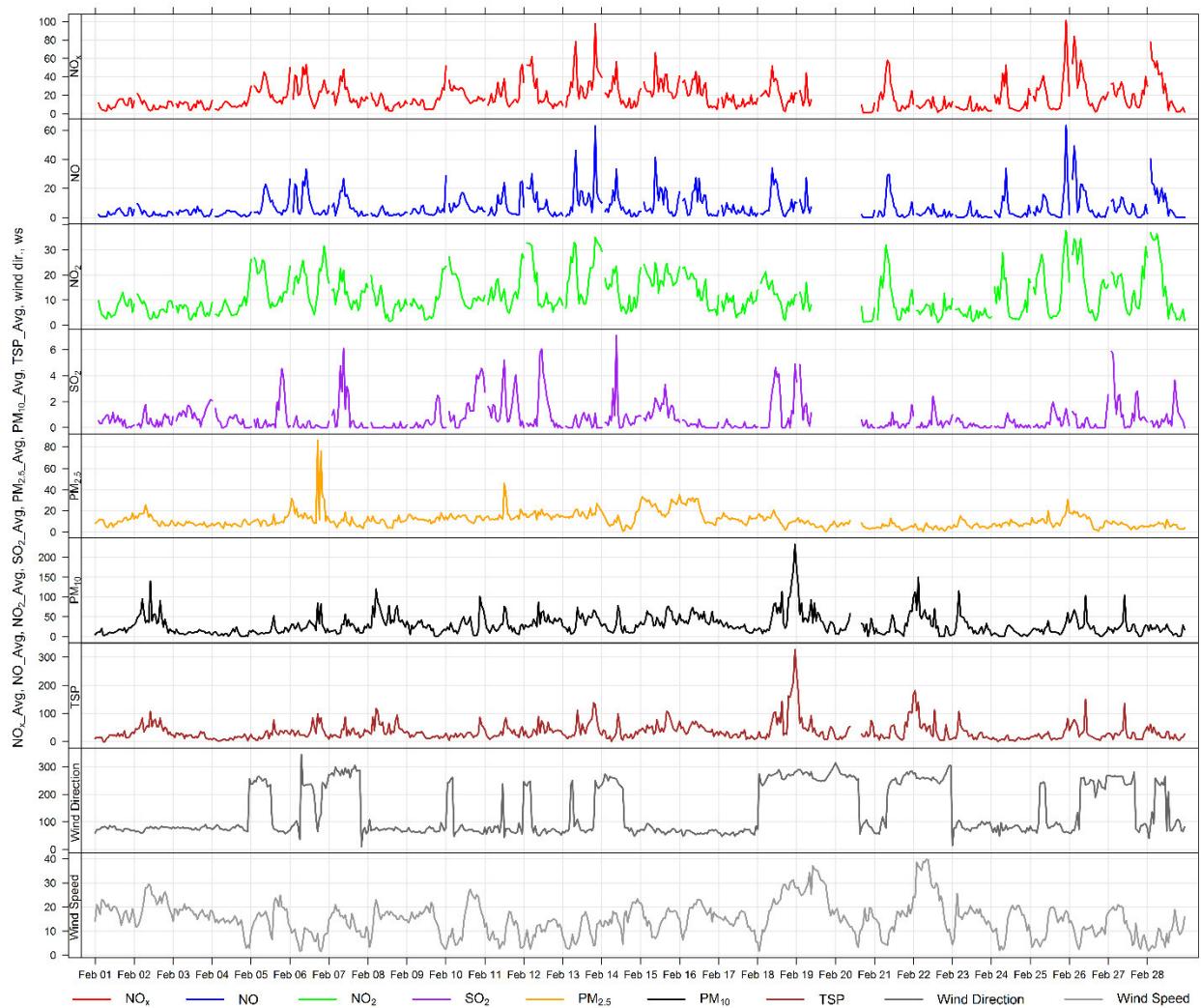


Figure 3-3 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

Histogram of Hourly NO₂ Readings

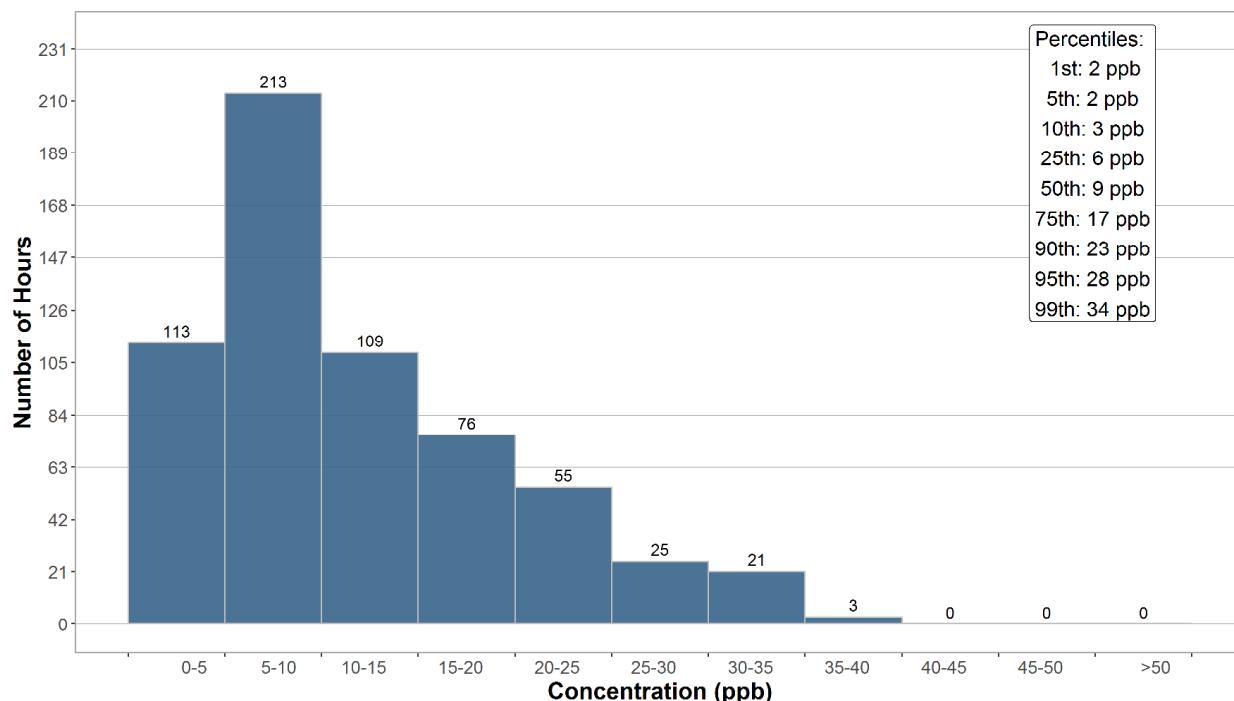


Figure 3-4 Histogram of hourly NO₂ concentrations at the Lagoon station

Histogram of Hourly SO₂ Readings

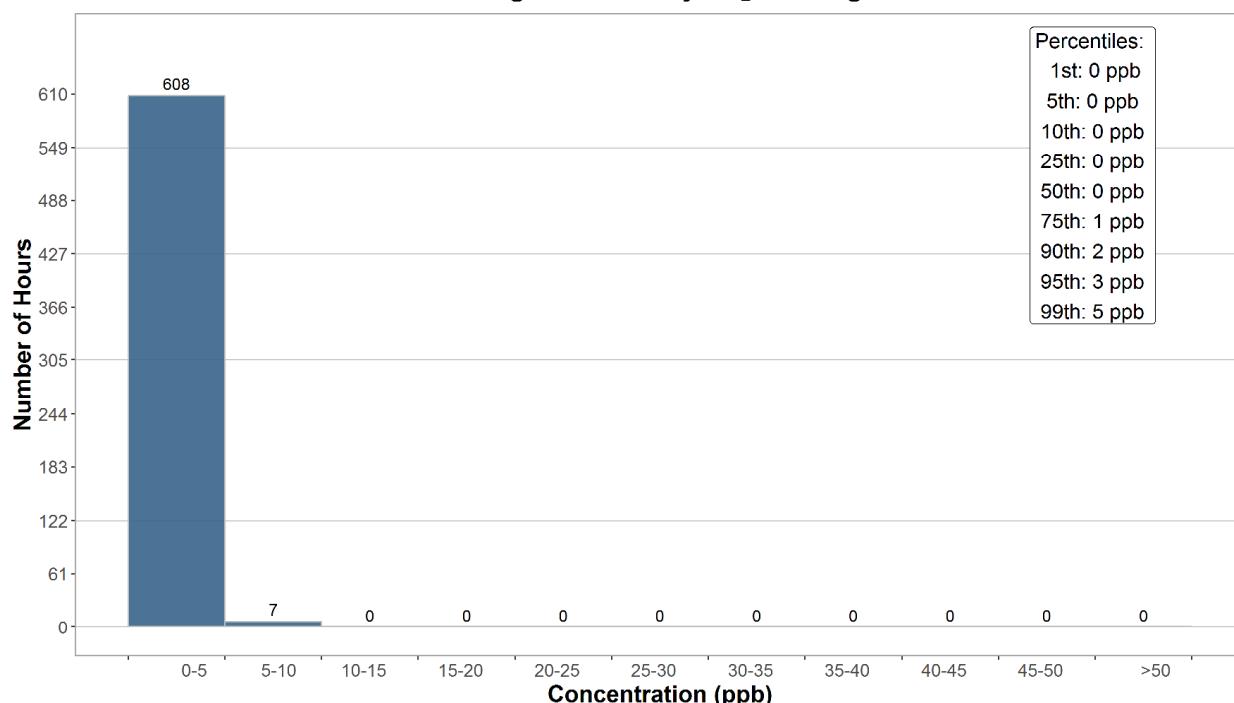


Figure 3-5 Histogram of hourly SO₂ concentrations at the Lagoon station

Histogram of Hourly PM_{2.5} Readings

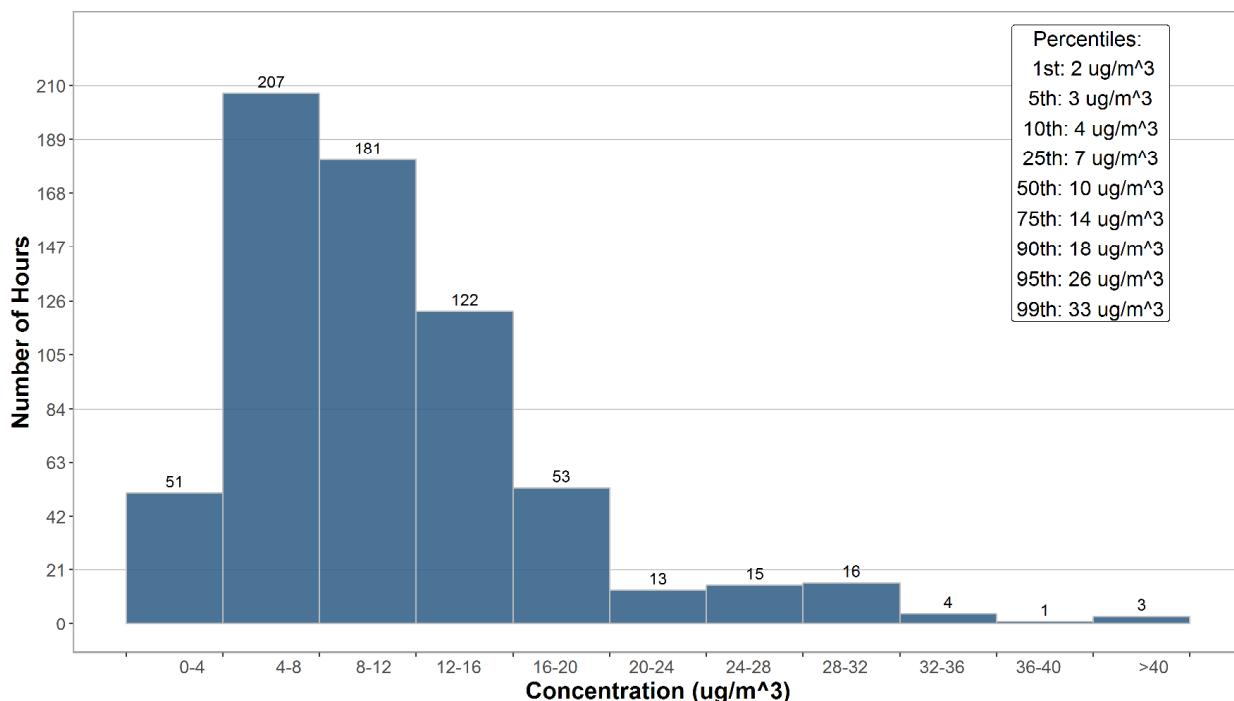


Figure 3-6 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

Histogram of Hourly PM₁₀ Readings

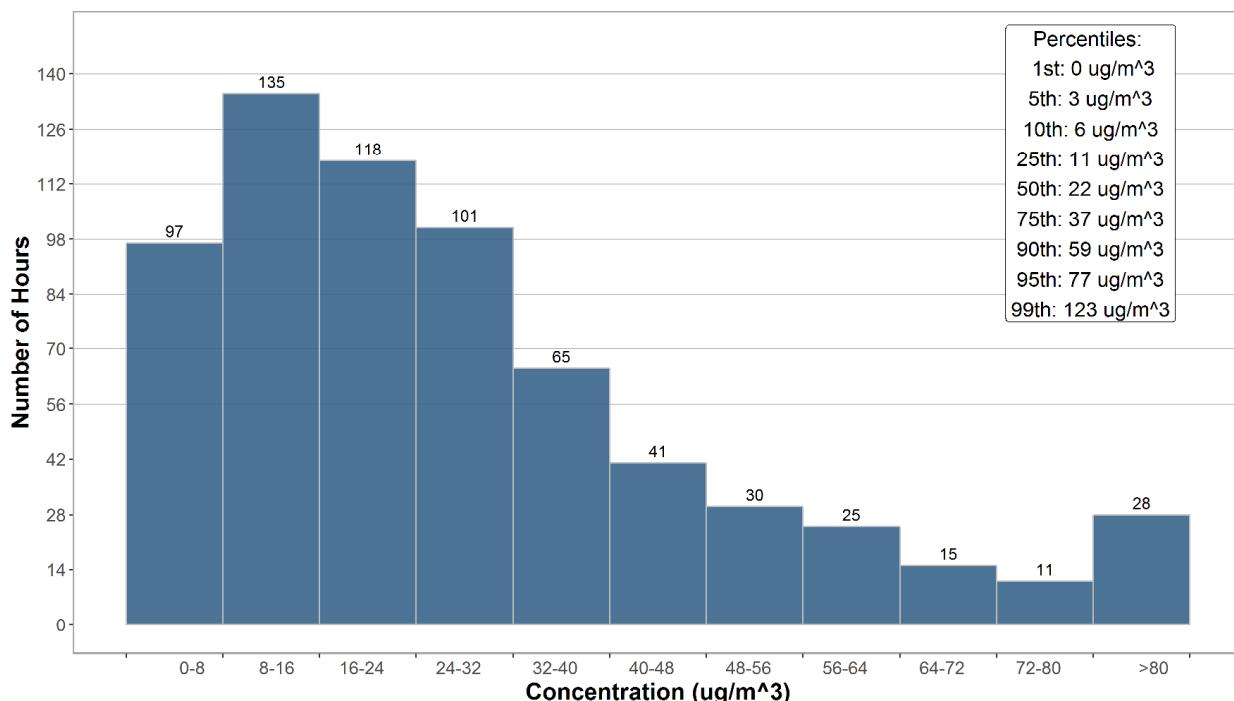


Figure 3-7 Histogram of hourly PM₁₀ concentrations at the Lagoon station

Histogram of Hourly TSP Readings

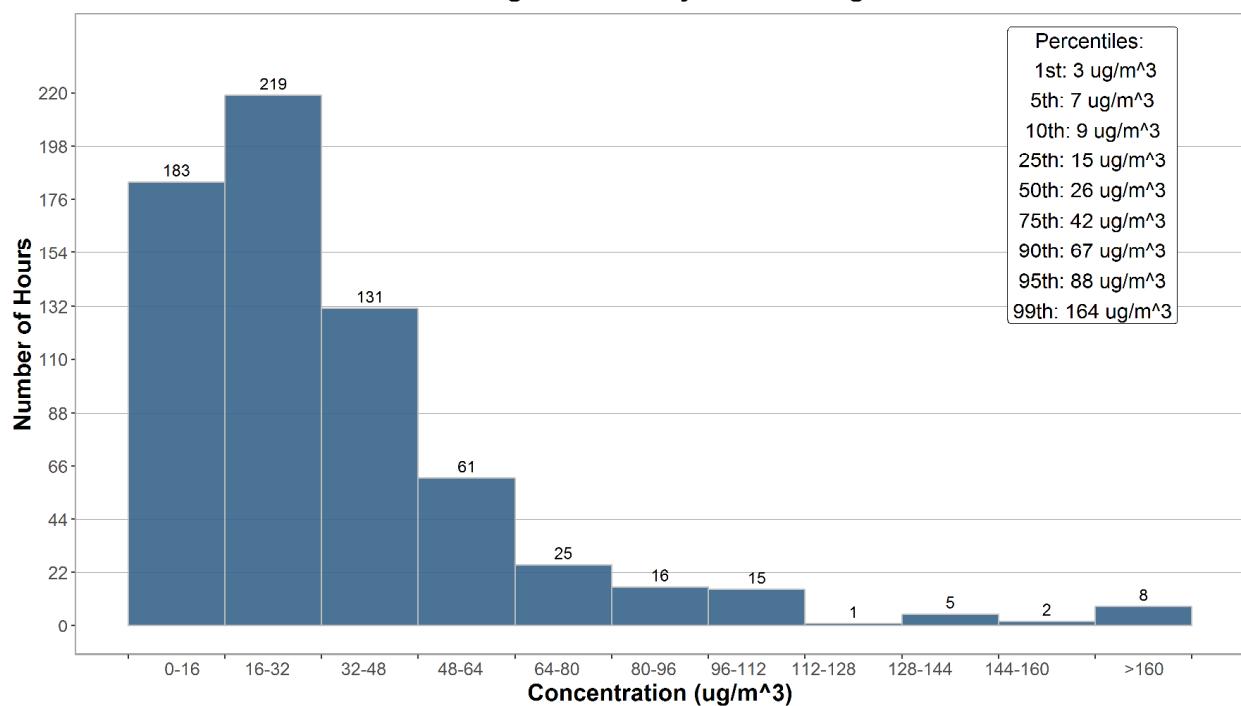


Figure 3-8 Histogram of hourly TSP concentrations at the Lagoon station

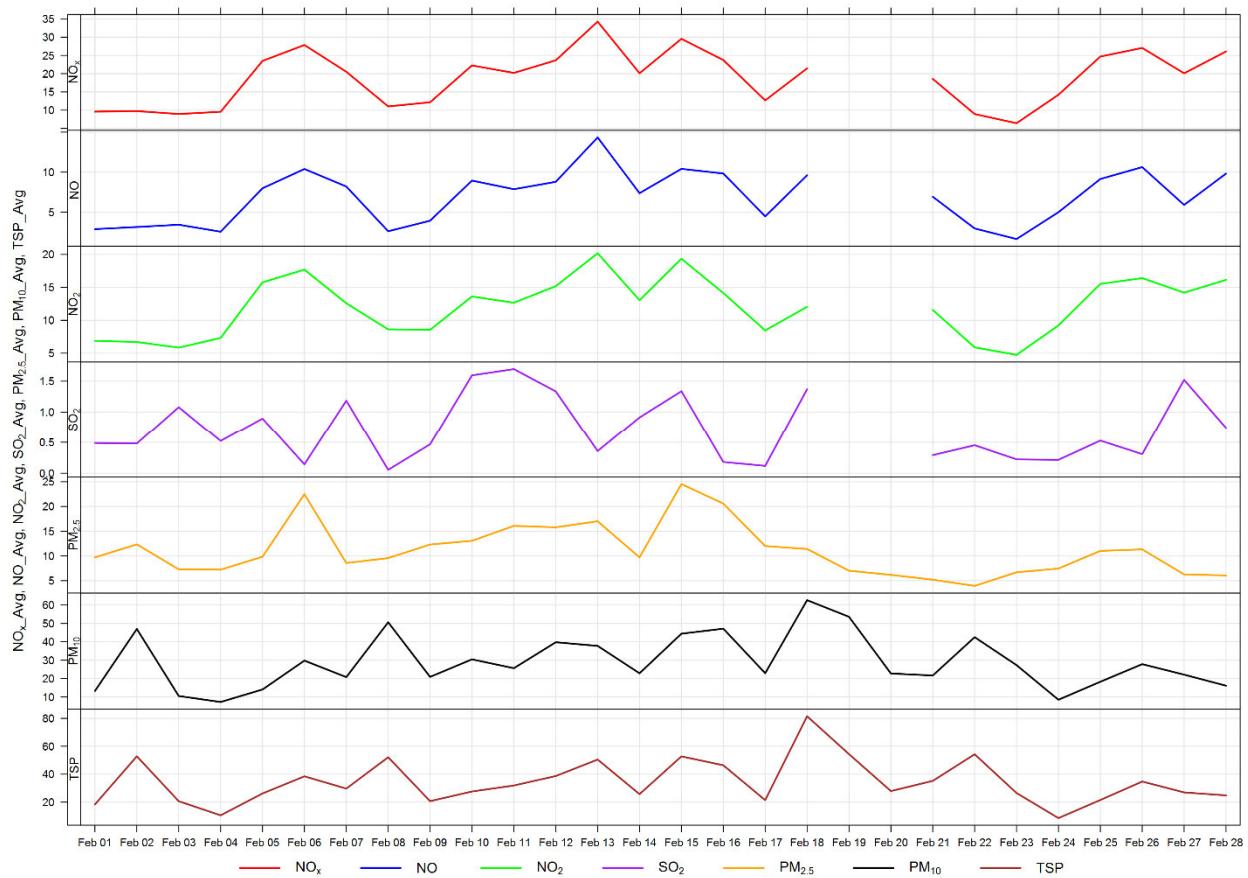


Figure 3-9 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-10 through Figure 3-12 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-10 shows that PM₁₀ and TSP concentrations shows less of a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities than is typical. This could be a result of the atypical wind directions (causing other sources to impact the monitor) and the burning activities being conducted in the airshed in February.

Figure 3-11 shows the variation of SO₂ over various time periods. SO₂ concentrations patterns are dependent on the timing of the highest SO₂ concentrations recorded in the month because in general SO₂ concentrations are very low. Figure 3-12 shows the variation of NO_x, NO and NO₂, with the peak of all three pollutants occurring in the early morning. This may be indicative of a peak in traffic.

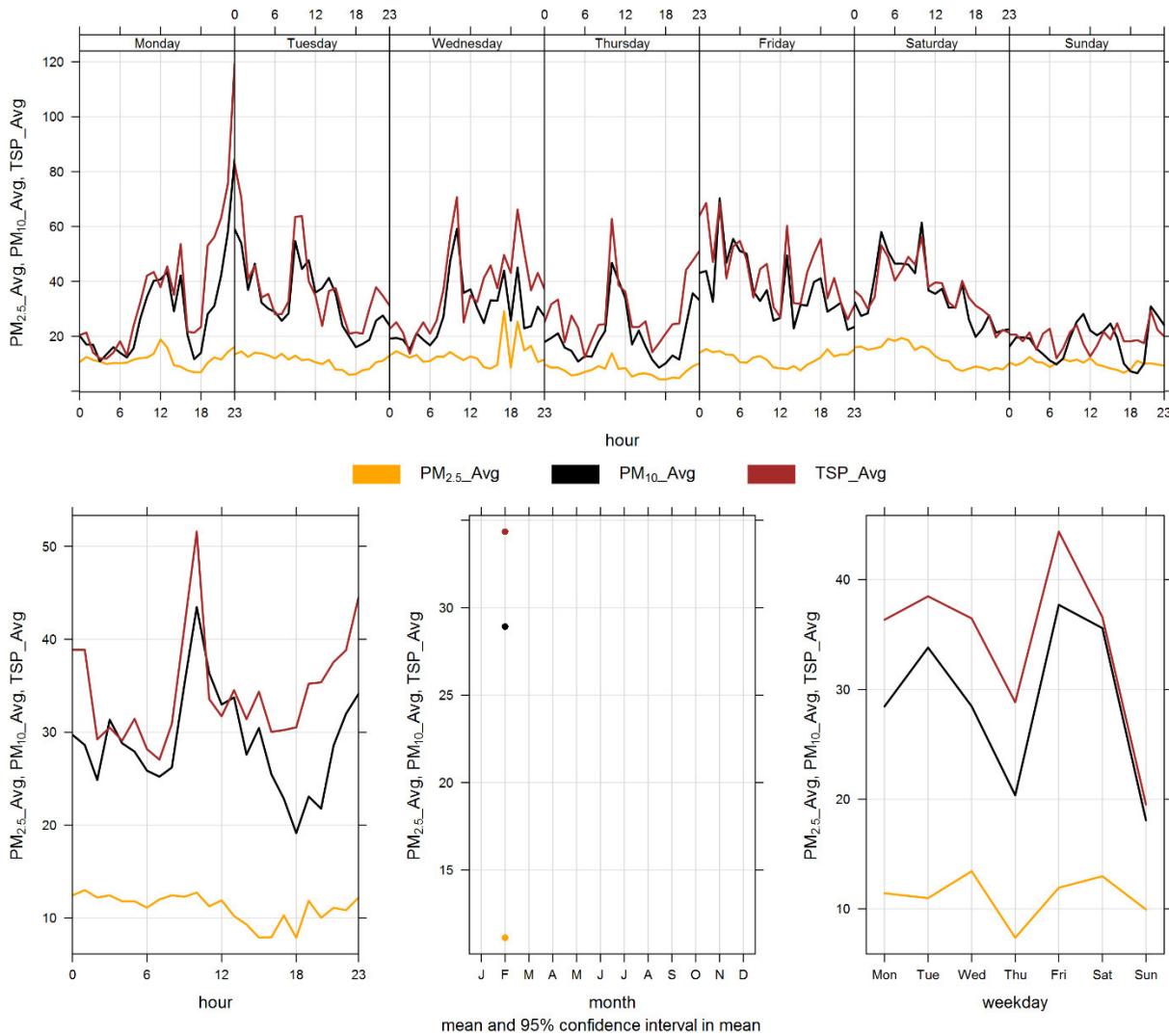


Figure 3-10 Lagoon monitor particulate matter time variation

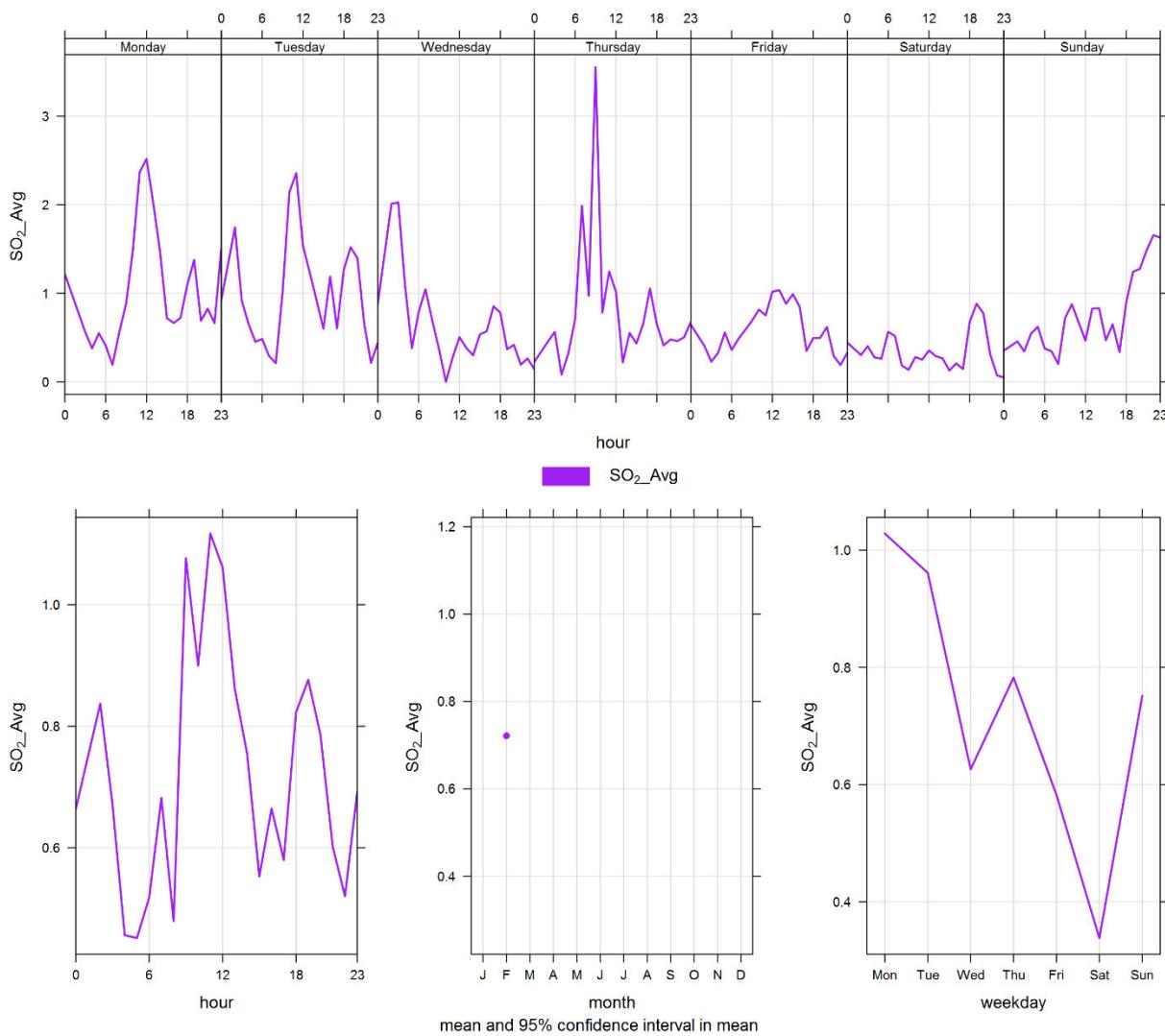


Figure 3-11 Lagoon monitor SO₂ time variation

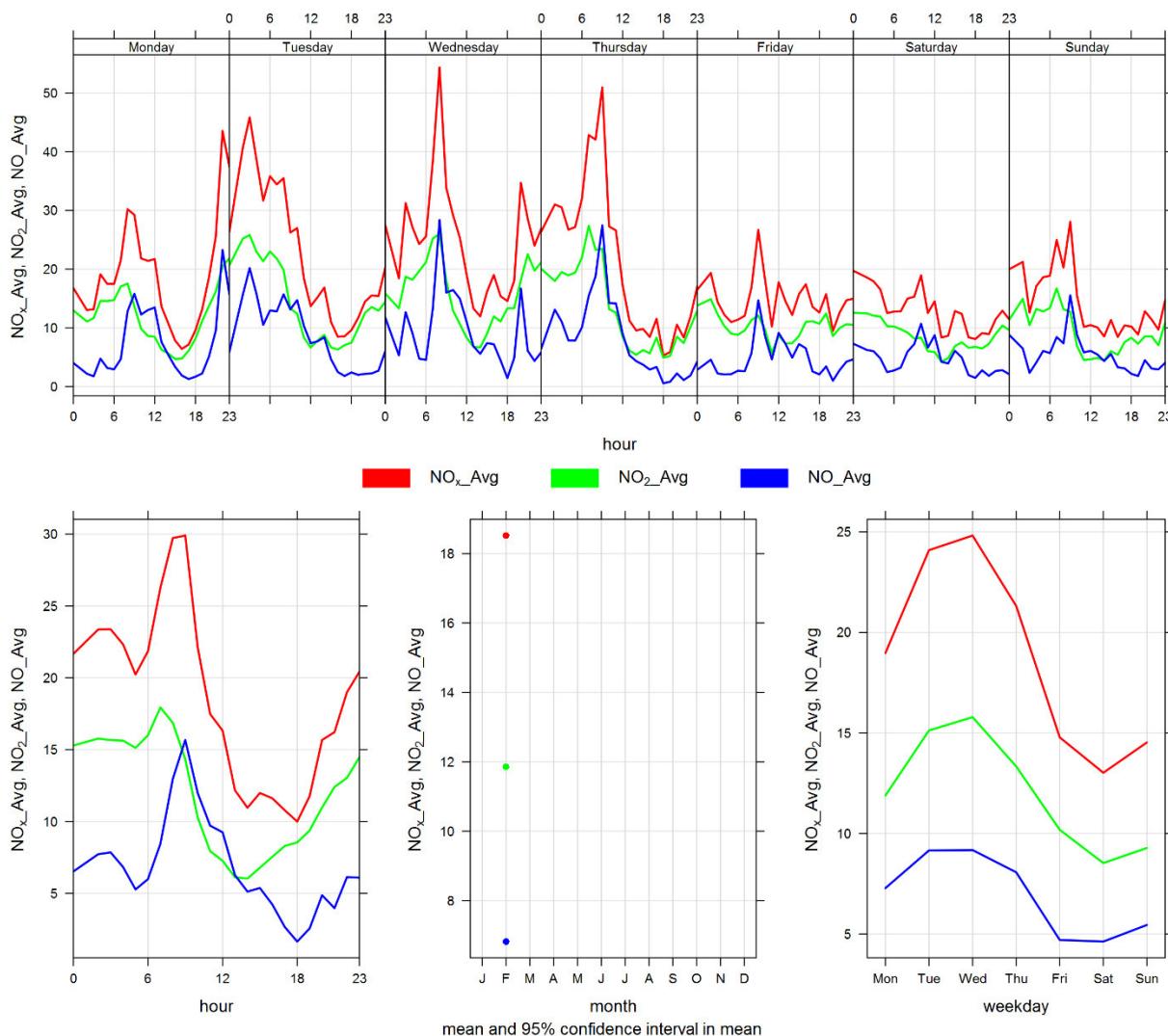


Figure 3-12 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for February 2019.

All of the monitors comply with Alberta Environment and Parks Air Monitoring Directive (2016).

4.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 4-1.

Table 4-1 Instrumentation List at the Windridge monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	No operational issues observed. The PM _{2.5} monitor was calibrated on February 14 th . The monitor had 100% uptime in February.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	No operational issues observed. The PM ₁₀ monitor was calibrated on February 14 th . The monitor had 100% uptime in February.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	No operational issues observed. The TSP monitor was calibrated on February 14 th . The monitor had 100% uptime in February.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in February 2019, and Table 4-2 summarizes the recorded exceedances. Figure 4-1 illustrates the time series for hourly PM, Figure 4-2 to Figure 4-4 illustrate the histograms for hourly PM, Figure 4-5 illustrates the time series for daily PM, Figure 4-6 displays the wind rose for the 24-hour TSP exceedance days, and Figure 4-7 illustrates the time series for hourly PM over different time periods.

There were zero exceedances of the 24-hour PM_{2.5} AAAQO, zero exceedances of the 1-hour PM_{2.5} AAAQG, and 3 exceedances of the 24-hour TSP AAAQO. TSP exceedances occurred on days with high wind speeds. As the Windridge monitor began reporting in November 2017, we can compare the exceedances in February 2019 with the exceedances in February 2018. In February 2018, there were zero exceedances of the 24-hour PM_{2.5} AAAQO and 9 exceedances of the 24-hour TSP AAAQO. Fires from controlled pine beetle burns were also observed in February, which would contribute to higher levels of particulate, especially in the PM_{2.5} size fraction.

Table 4-2 Summary of February 2019 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM _{2.5} (µg/m ³)	80	29	Windridge	0	0	0.0	9.8	43.0	11	14	11.7	74.7	22.3	15	100.0
PM ₁₀ (µg/m ³)	-	-	Windridge	-	-	1.3	39.6	393.9	22	11	34.5	256.3	131.5	22	100.0
TSP (µg/m ³)	-	100	Windridge	-	3	0.0	45.7	665.2	22	11	34.5	256.3	201.2	22	100.0

Table 4-3 Days exceeding the TSP AAAQO or PM_{2.5} AAAQO at the Windridge Station

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2/2/2019	111.6	-	75.9	21.6	76.5	high wind event
2/18/2019	120.3	-	267.7	20.3	62.2	high wind event
2/22/2019	201.2	-	258.9	27.3	46.9	high wind event
Total # of Exceedances	3	0				
Maximum # of Exceedances (February)	9 (2018)	0 (2018)				
Average # of Exceedances (February)	9	0				
Minimum # of Exceedances (February)	9 (2018)	0 (2018)				

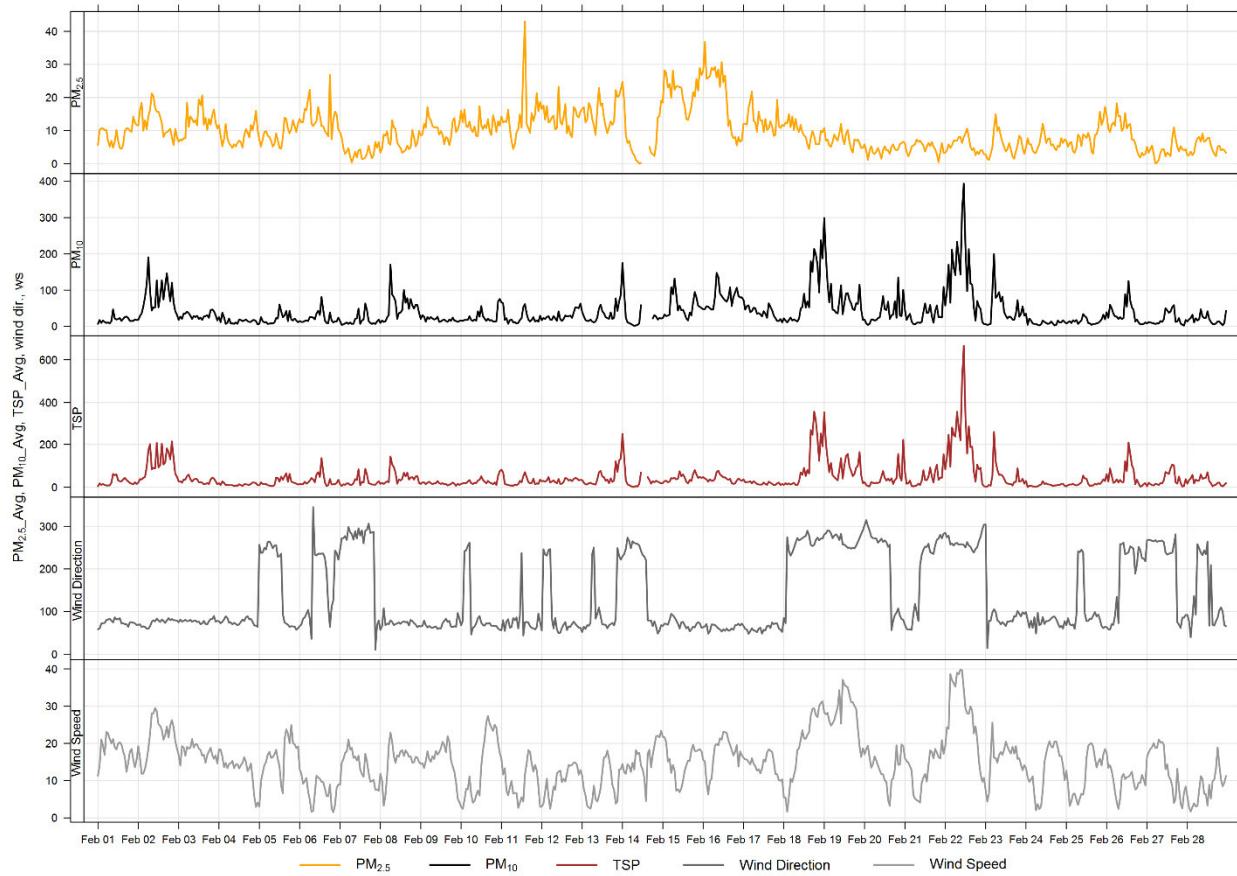


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

Histogram of Hourly PM_{2.5} Readings

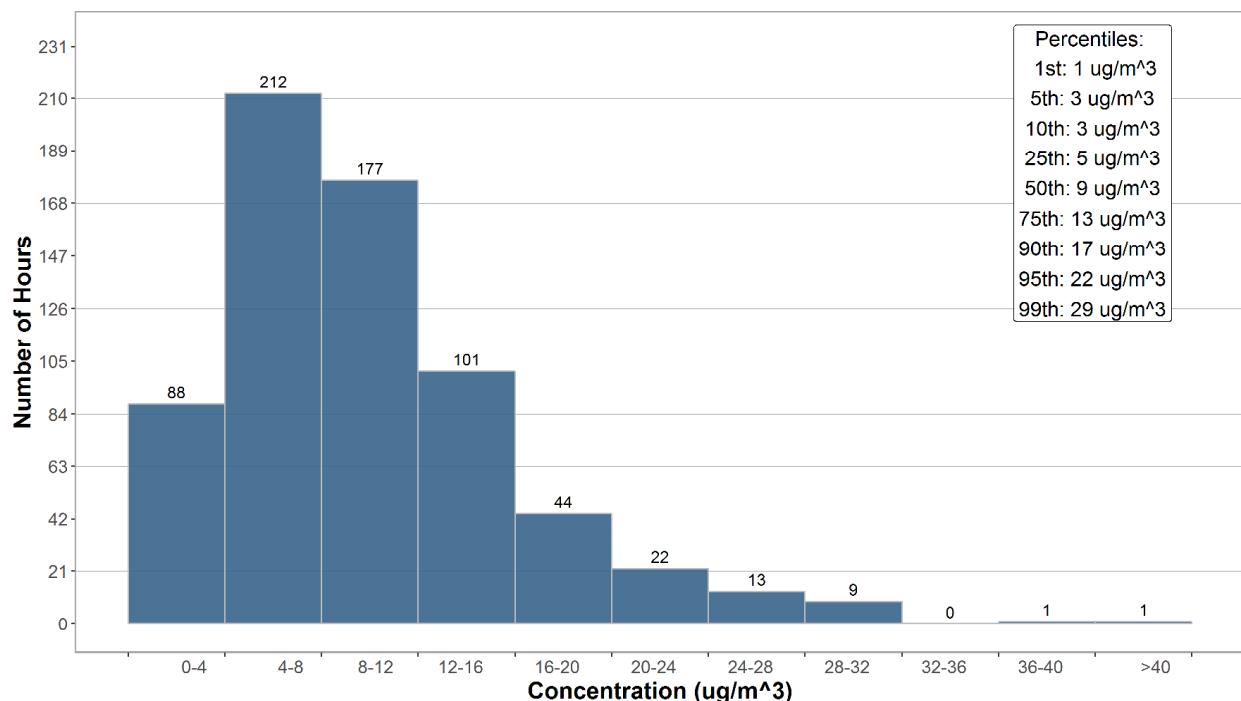


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

Histogram of Hourly PM₁₀ Readings

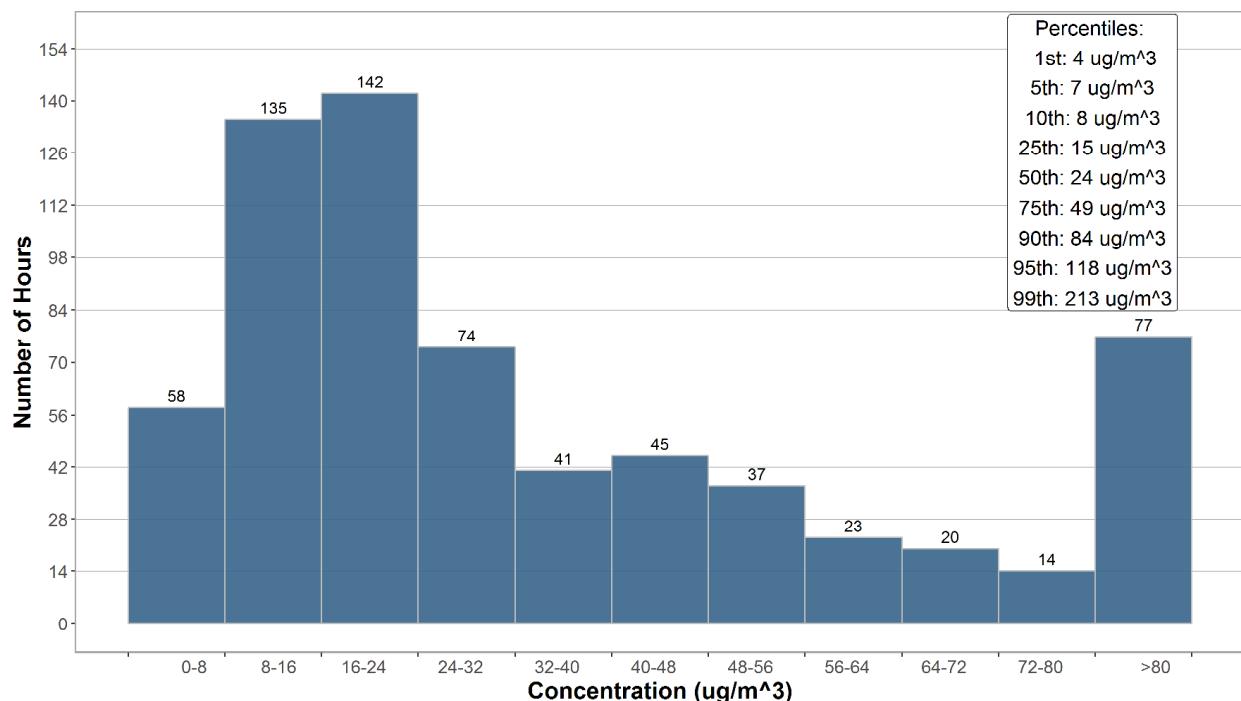


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

Histogram of Hourly TSP Readings

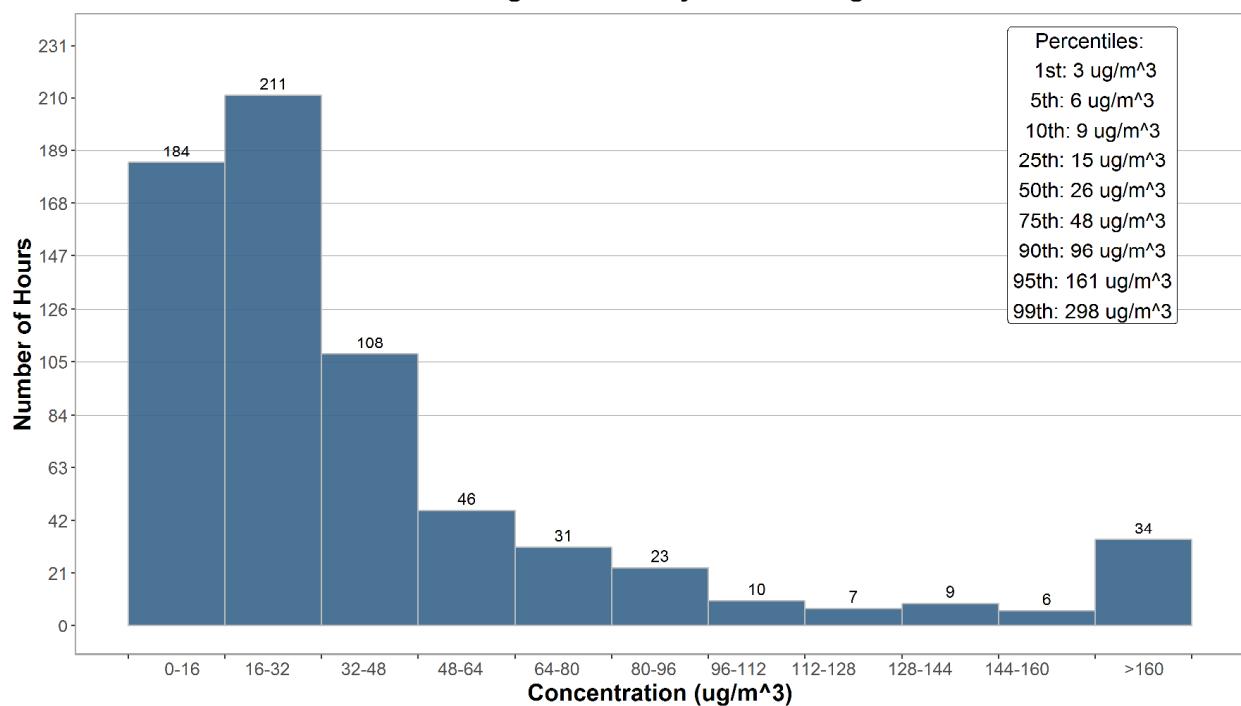


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

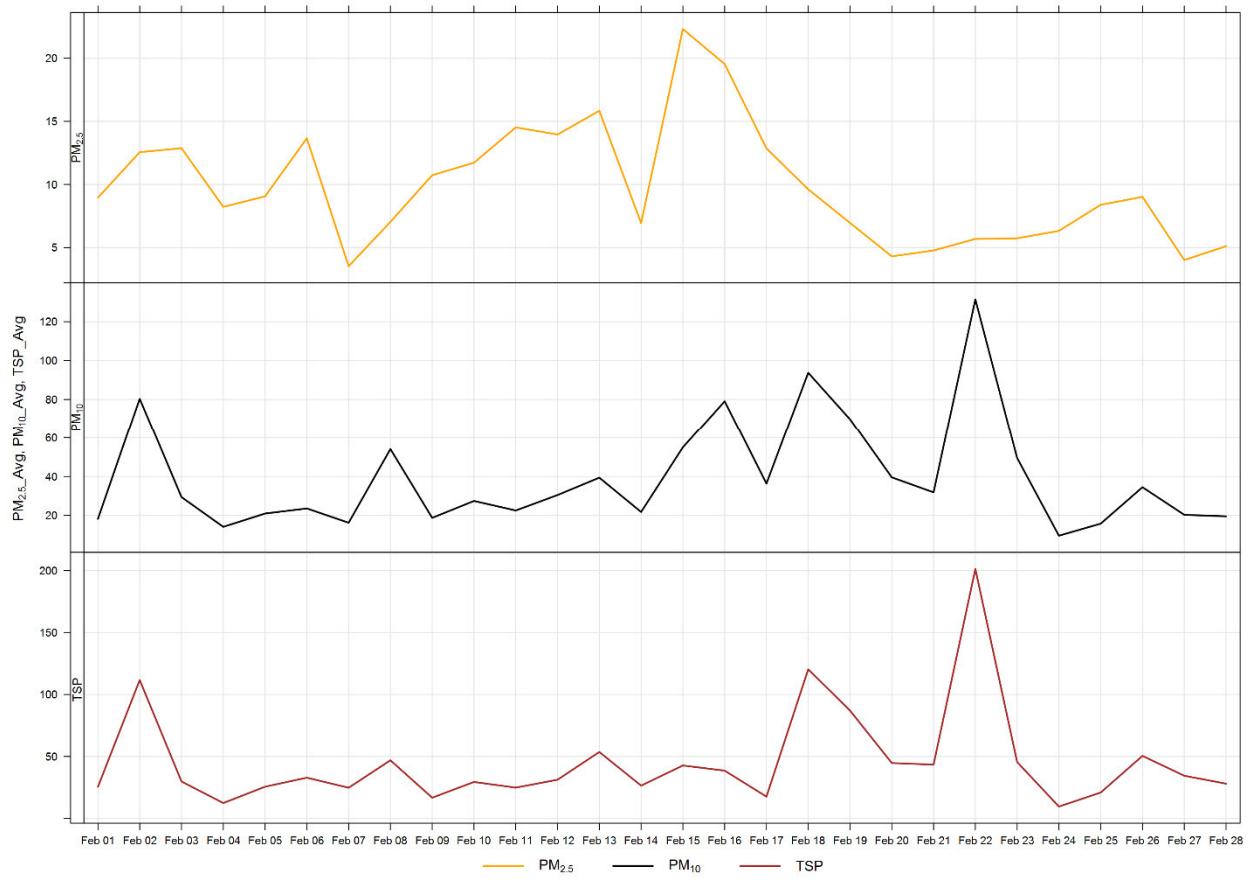


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 3 days of TSP exceedances. The wind rose shows that the winds predominantly came from the west and west-southwest directions, and were mostly over 15 km/hr.

Figure 4-7 illustrates the hourly PM concentrations recorded at the Windridge monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 4-7 is based on data collected during February 2019 and similar to the Lagoon station showed a lack of the typical diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities in Exshaw. This could be a result of the atypical wind directions (causing other sources to impact the monitor) and the burning activities being conducted in the airshed in February.

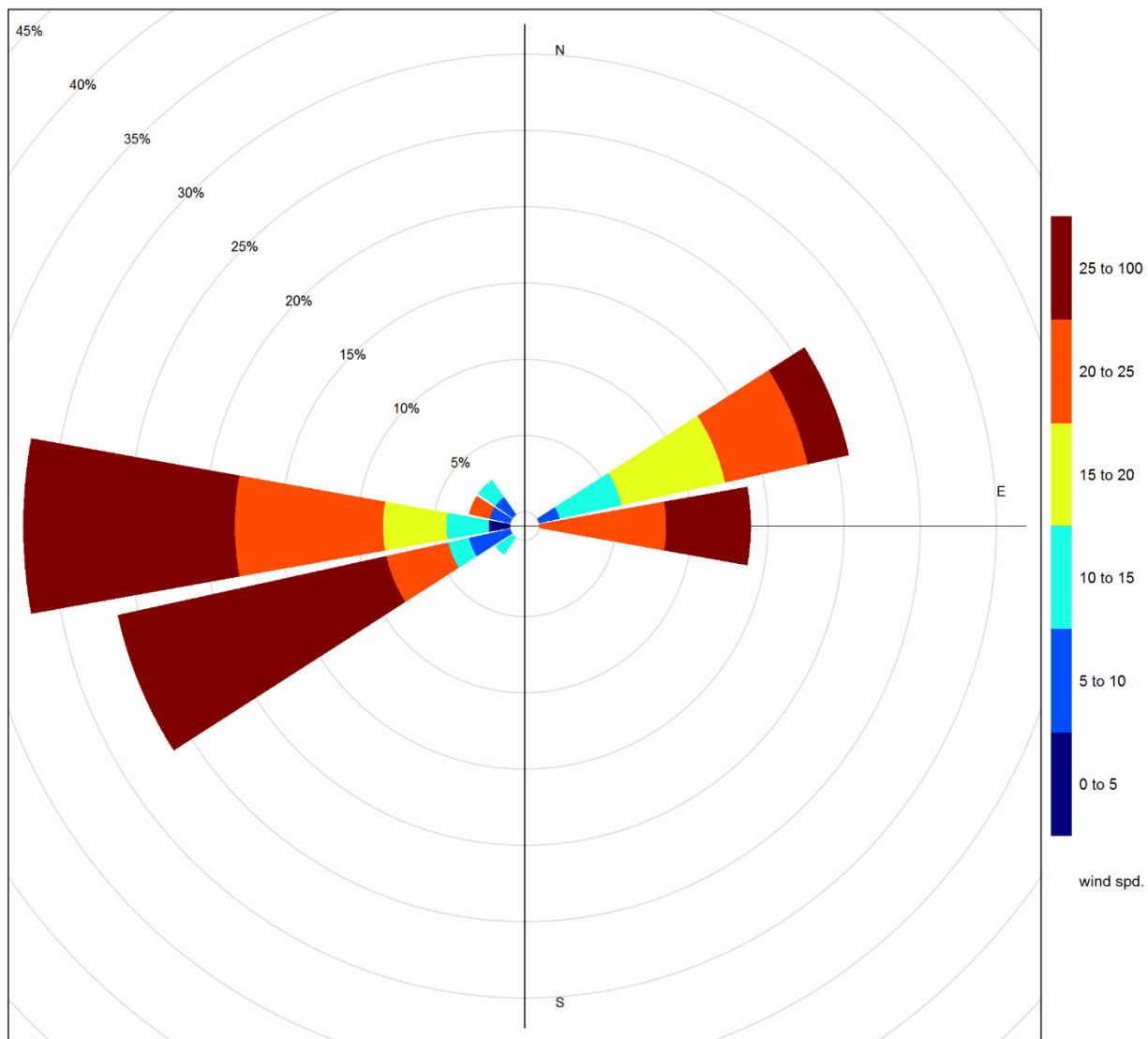


Figure 4-6 Wind rose for TSP exceedance day recorded at the Windridge Station

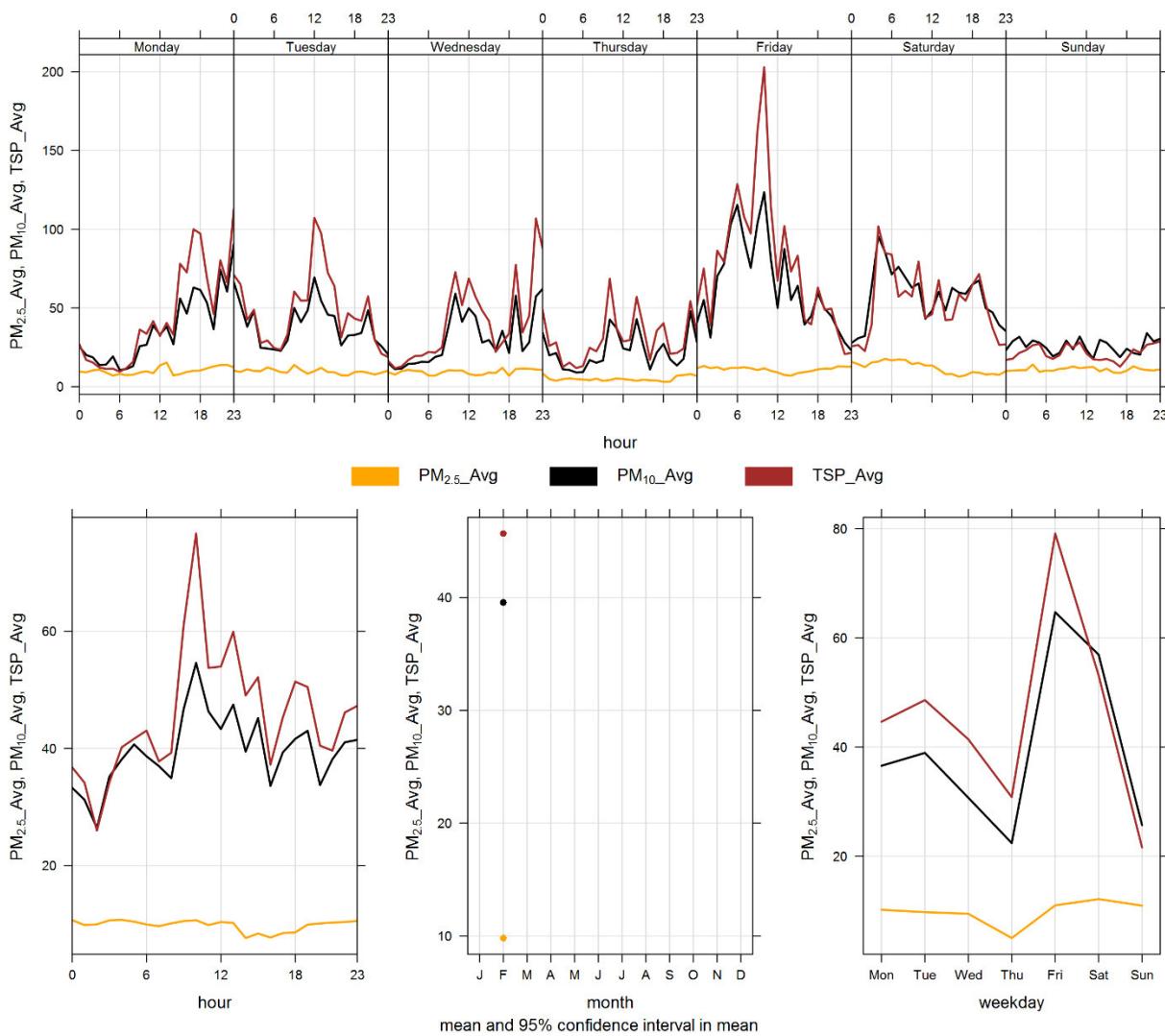


Figure 4-7 Windridge particulate matter time variation

5 WEST INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 5-1.

Table 5-1 Instrumentation List at the West monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	No operational issues observed. The monitors had 100% uptime in February.

5.2 MONITORING RESULTS AND TRENDS

The West GRIMM was installed in its current location in order to monitor “background” PM concentrations since the predominant wind pattern is from west to east in the valley. Table 5-2 summarizes the maximum 1-hour and 24-hour concentrations recorded over the course of the month. Table 5-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

Figure 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. There was zero and one exceedance of the 24-hour TSP guideline (100 µg/m³) and the PM_{2.5} (29 µg/m³) guideline, respectively. Fires from controlled pine beetle burns were observed in February, which would contribute to higher levels of particulate, especially in the PM_{2.5} size fraction. Historically in February, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are three and zero, respectively. The maximum number of 24-hour TSP AAAQO exceedances was 11 days in 2010, while the maximum number of 24-hour PM_{2.5} AAAQO exceedances was 2 days in 2015.

Table 5-2 Summary of February 2019 data at the West GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM _{2.5} (µg/m ³)	80	29	West	0	1	1.0	9.5	40.2	16	6	15.6	69.4	31.3	15	100.0
PM ₁₀ (µg/m ³)	-	-	West	-	-	1.1	12.2	58.3	16	6	15.6	69.4	41.4	15	100.0
TSP (µg/m ³)	-	100	West	-	0	0.8	10.4	49.4	15	10	6.9	60.4	37.9	15	100.0

Table 5-3 Days exceeding the Guideline for TSP or PM_{2.5} at the West Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
West						
2/15/2019	-	31	70.2	14.7	76.1	Potential impacts from controlled pine beetle burns were observed in February, which would contribute to higher levels of particulate, especially in the PM _{2.5} size fraction. Impacts from residential woodsmoke would also impact the PM _{2.5} size fraction. All GRIMM monitors showed a PM _{2.5} exceedance on February 15 th under wind conditions from the West which would suggest impacts from a source(s) other than Lafarge.
Total # of Exceedances	0	1				
Maximum # of Exceedances (February)	11 (2010)	2 (2015)				
Average # of Exceedances (February)	3	0				
Minimum # of Exceedances (February)	0 (2016, 2017)	0 (2010, 2011, 2013, 2014, 2016 ~ 2018)				

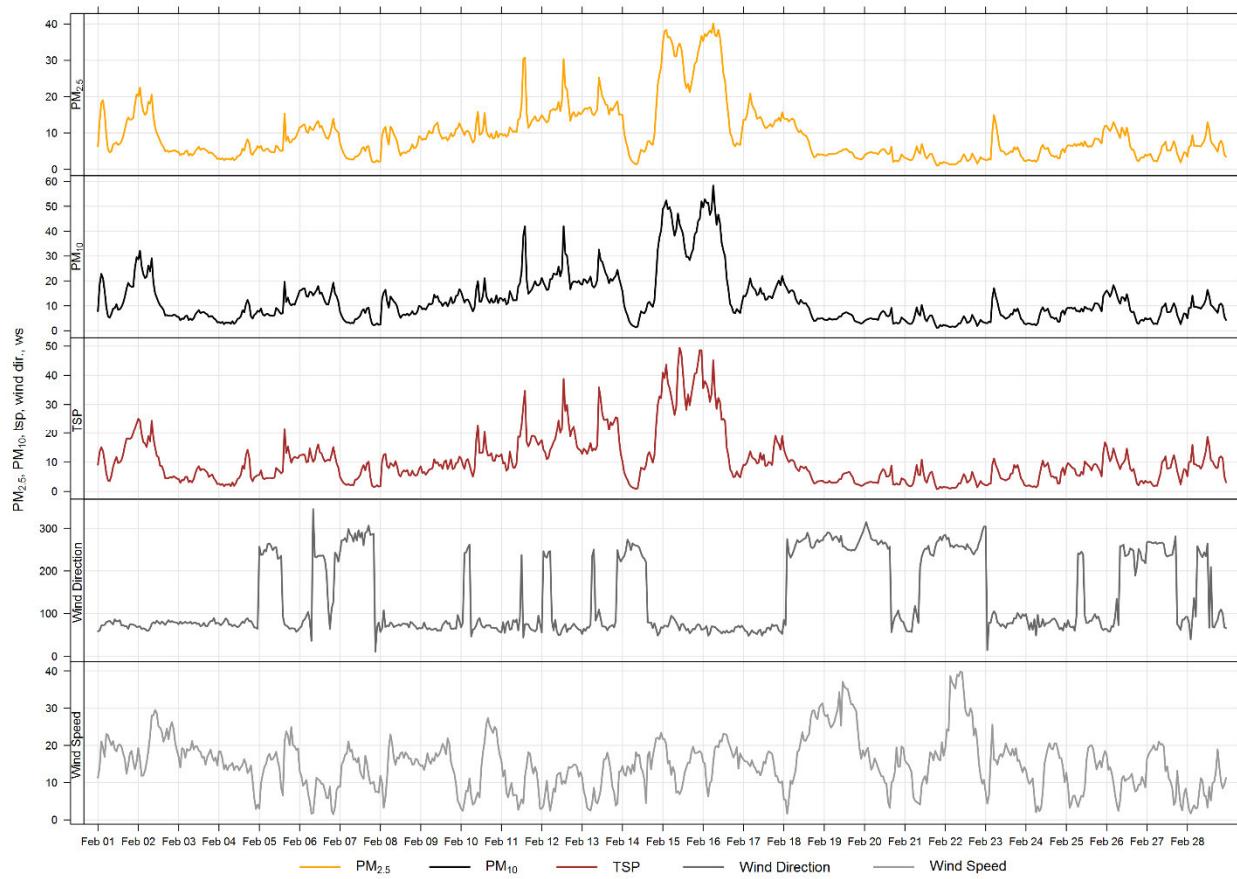


Figure 5-1 1-hour particulate matter concentrations at the West monitor

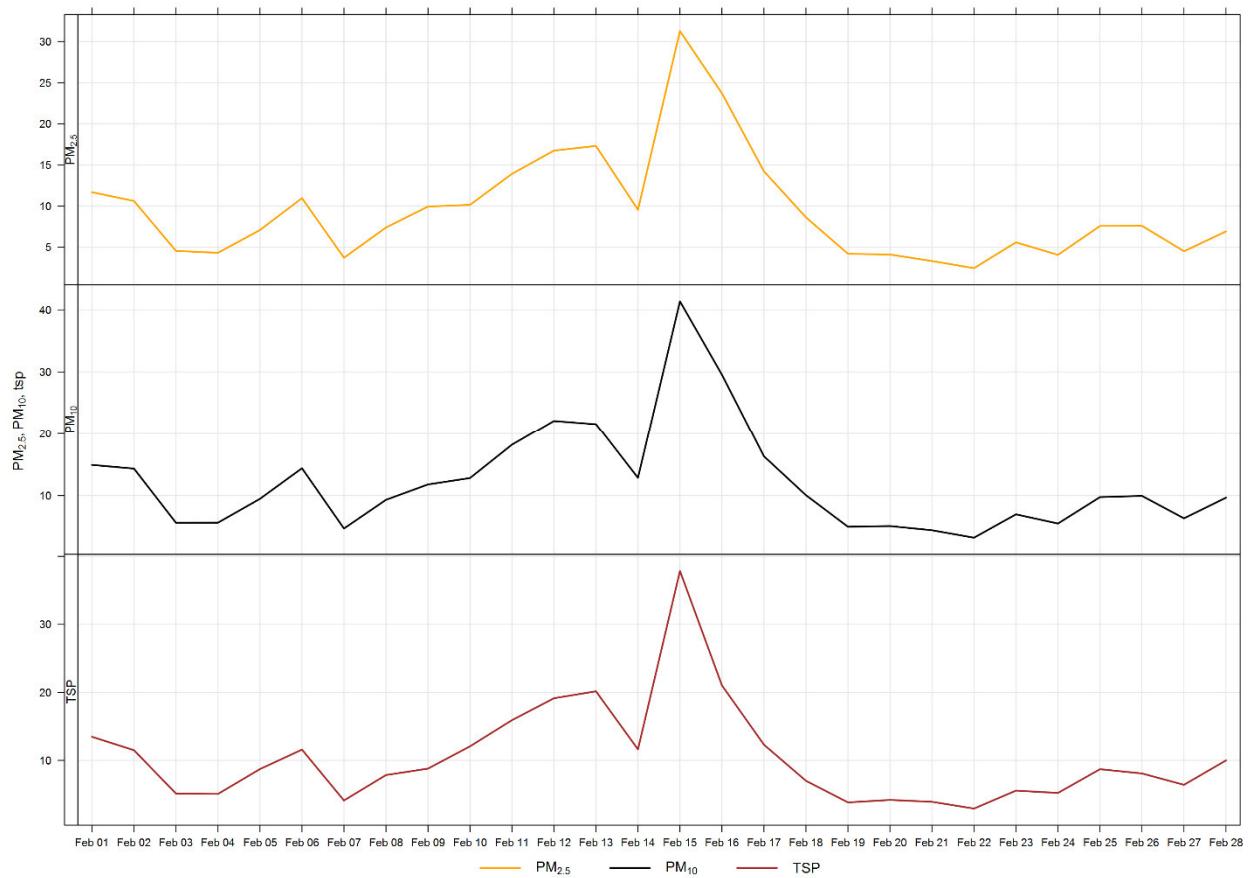


Figure 5-2 24-hour particulate matter concentrations at the West monitor

Figure 5-3 shows the wind rose for the one day of PM_{2.5} exceedances. The wind rose shows that the winds predominantly came from the east-northwest direction.

Figure 5-4 illustrates the hourly PM concentrations recorded at the West monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 5-4 is based on data collected during February 2019 and indicates less of a relationship between TSP and hours which Lafarge is typically operational. This could be a result of the atypical wind directions (causing other sources to impact the monitor) and the burning activities being conducted in the airshed in February.

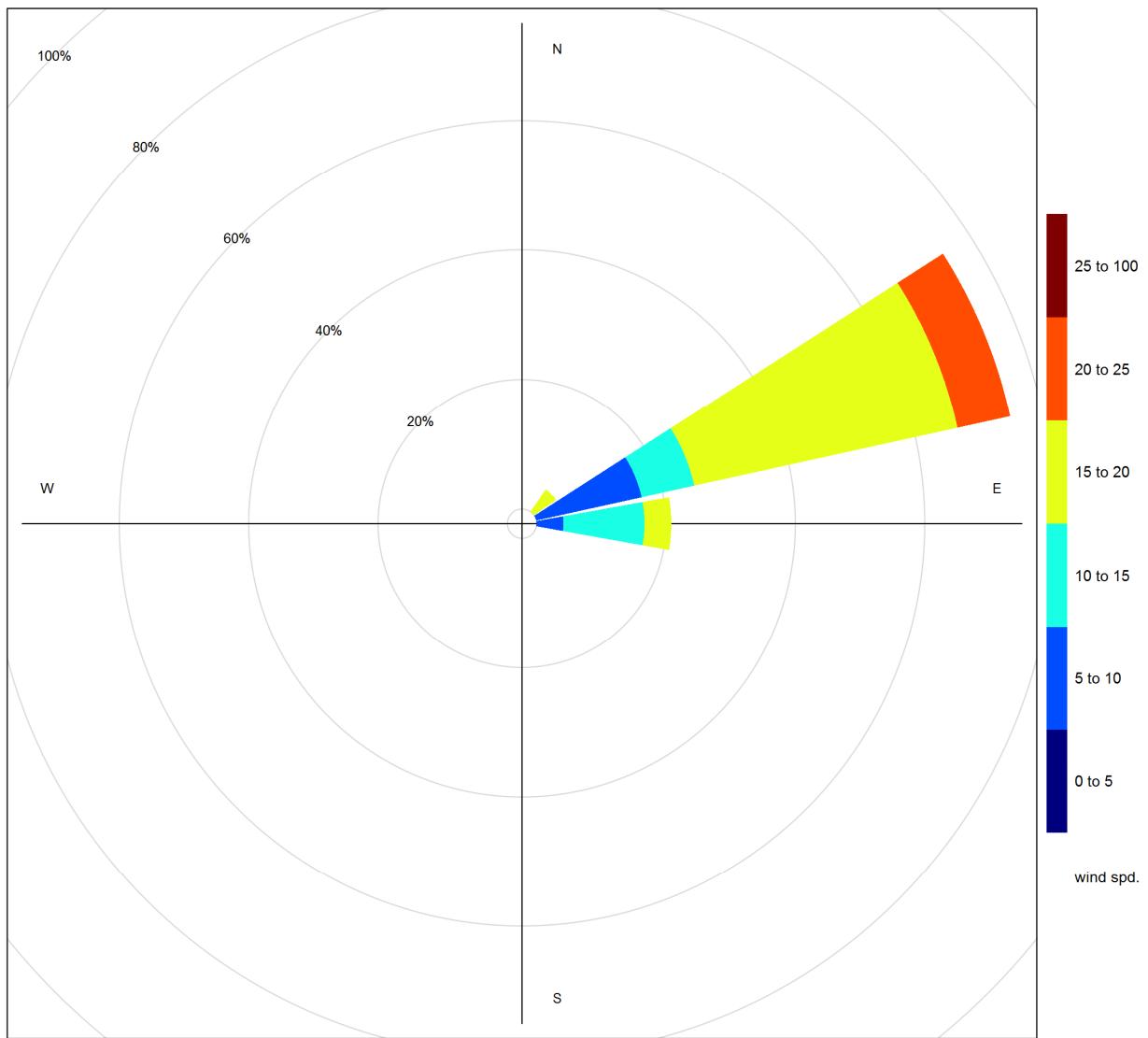


Figure 5-3 Wind rose for PM_{2.5} exceedance days recorded at the West GRIMM

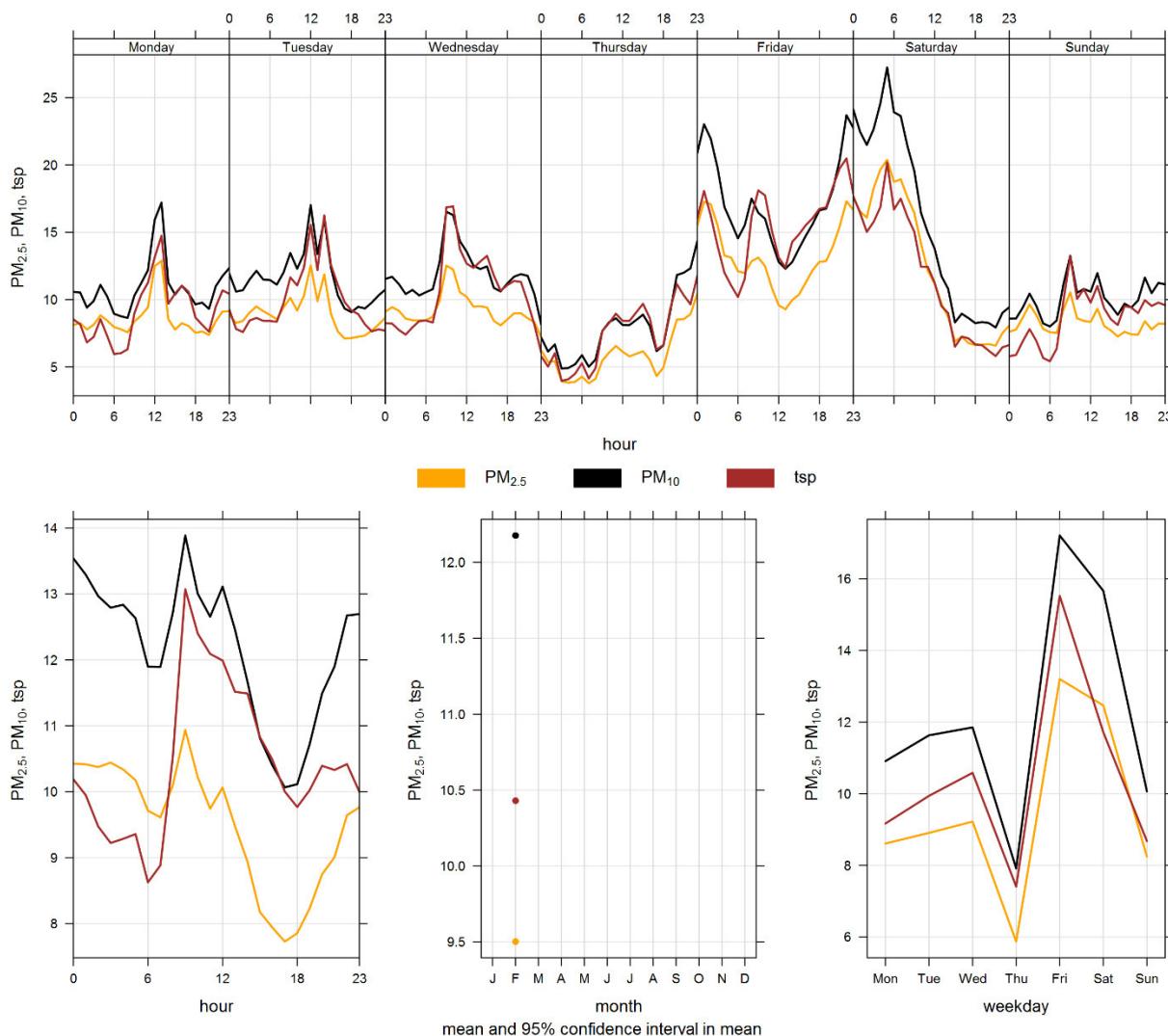


Figure 5-4 **West particulate matter time variation**

6 BERM INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 6-1.

Table 6-1 Instrumentation List at the Berm monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	Instrument maintenance led to one hour of lost operational time on February 14 th at 14:00. This hour was flagged as Y for “operational maintenance carried out on the instrument.” Operational time and valid data were well above 95% for the month of February, at 99.9%.

6.2 MONITORING RESULTS AND TRENDS

The Berm monitor was placed at its current location as a result of the dispersion modelling conducted for the facility in 2009. Figure 6-1 and Figure 6-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 6-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month, and Table 6-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

In February, there were 7 and 1 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) guidelines, respectively. Fires from controlled pine beetle burns were also observed in February, which would contribute to higher levels of particulate, especially in the PM_{2.5} size fraction.

Historically during the month of February, the Berm monitor records an average of 17 and zero exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during February occurred in 2013 where there were 24 days that exceeded the guideline. The minimum number of TSP exceedances was recorded during February 2015, which had 9 days that exceeded the guideline. With respect to PM_{2.5}, February 2011, 2015, 2016, and 2018 recorded the maximum number of exceedances (1 day) prior to this year.

It should also be noted that the GRIMM monitors become more conservative in the reported PM concentrations as the size fraction increases. The PM_{2.5} size fraction has been shown to match other regulatory approved PM_{2.5} monitors, but the TSP concentrations recorded by the GRIMM tend to be higher than regulatory approved monitors (Levelton, 2015).

The Berm monitor is located along a ridge at the edge of the Lafarge property and is in an area where on-site trucks drive through site, which can create fugitive dust. Quarry blasting also has the potential to impact short term PM immediately following a blast.

Table 6-2 Summary of February 2019 data at the Berm GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM _{2.5} (µg/m ³)	80	29	Berm	0	1	0.9	11.1	68.9	22	10	39.6	257.8	29.2	15	99.9
PM ₁₀ (µg/m ³)	-	-	Berm	-	-	1.2	32.2	641.6	22	10	39.6	257.8	193.1	22	99.9
TSP (µg/m ³)	-	100	Berm	-	7	0.9	294.8	2619.7	22	10	39.6	257.8	834.9	22	99.9

Table 6-3 Days exceeding the Guideline for TSP or PM_{2.5} at the Berm Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Berm						
2/10/2019	247.9	-	67.0	14.6	66.9	
2/15/2019	-	29	70.2	14.7	76.1	Potential impacts from controlled pine beetle burns were observed in February, which would contribute to higher levels of particulate, especially in the PM _{2.5} size fraction. Impacts from residential woodsmoke would also impact the PM _{2.5} size fraction. All GRIMM monitors showed a PM _{2.5} exceedance on February 15 th under wind conditions from the West which would suggest impacts from a source(s) other than Lafarge
2/18/2019	449.6	-	267.7	20.3	62.2	high wind event
2/19/2019	296.8	-	267.6	27.9	63.7	high wind event
2/21/2019	134.8	-	263.9	13.1	64.5	
2/22/2019	834.9	-	258.9	27.3	46.9	high wind event
2/23/2019	109.4	-	84.3	16.1	73.2	
2/26/2019	128.4	-	236.5	10.0	62.6	
Total # of Exceedances	7	1				

Maximum # of Exceedances (February)	24 (2013)	1 (2011, 2015, 2016, 2018)				
Average # of Exceedances (February)	17	0				
Minimum # of Exceedances (February)	9 (2015)	0 (2010, 2012 ~ 2014, 2017)				

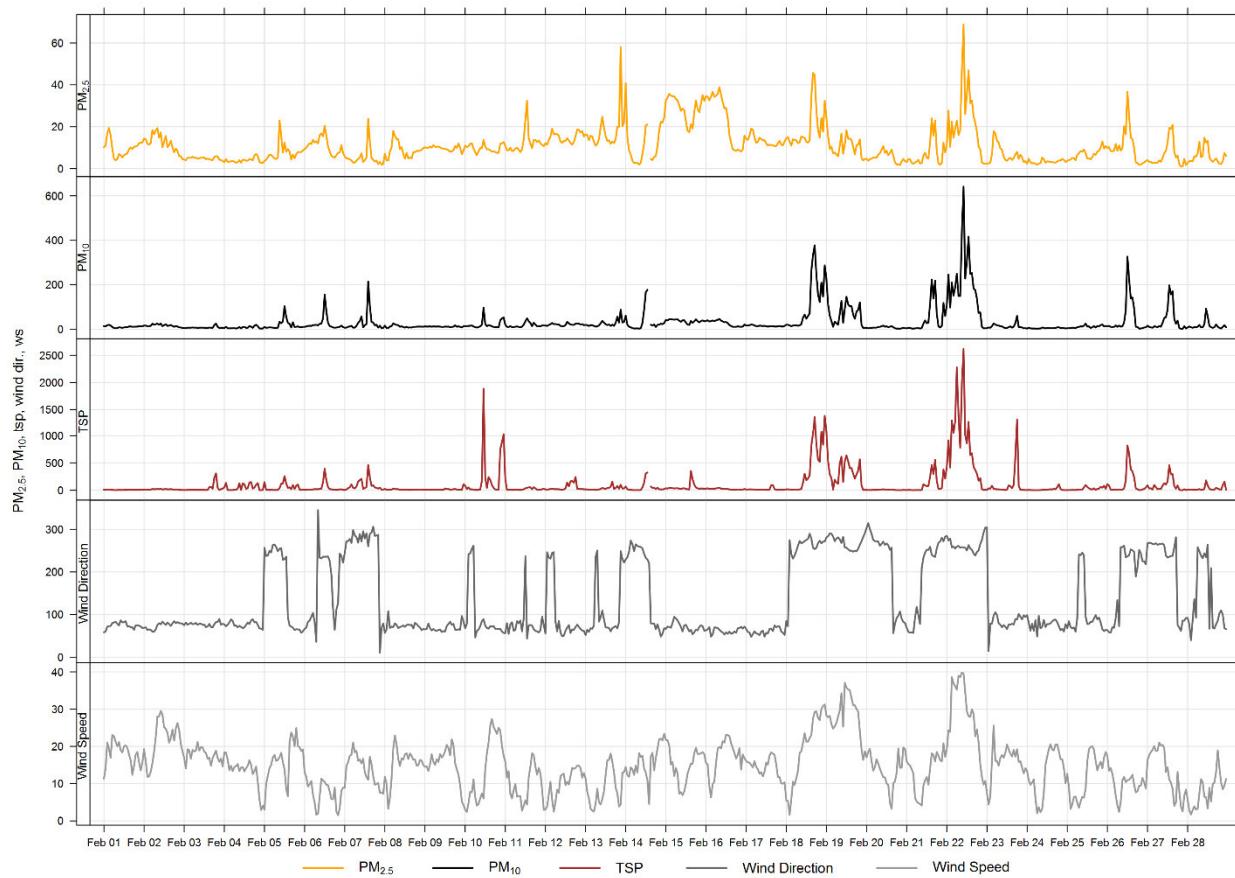


Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

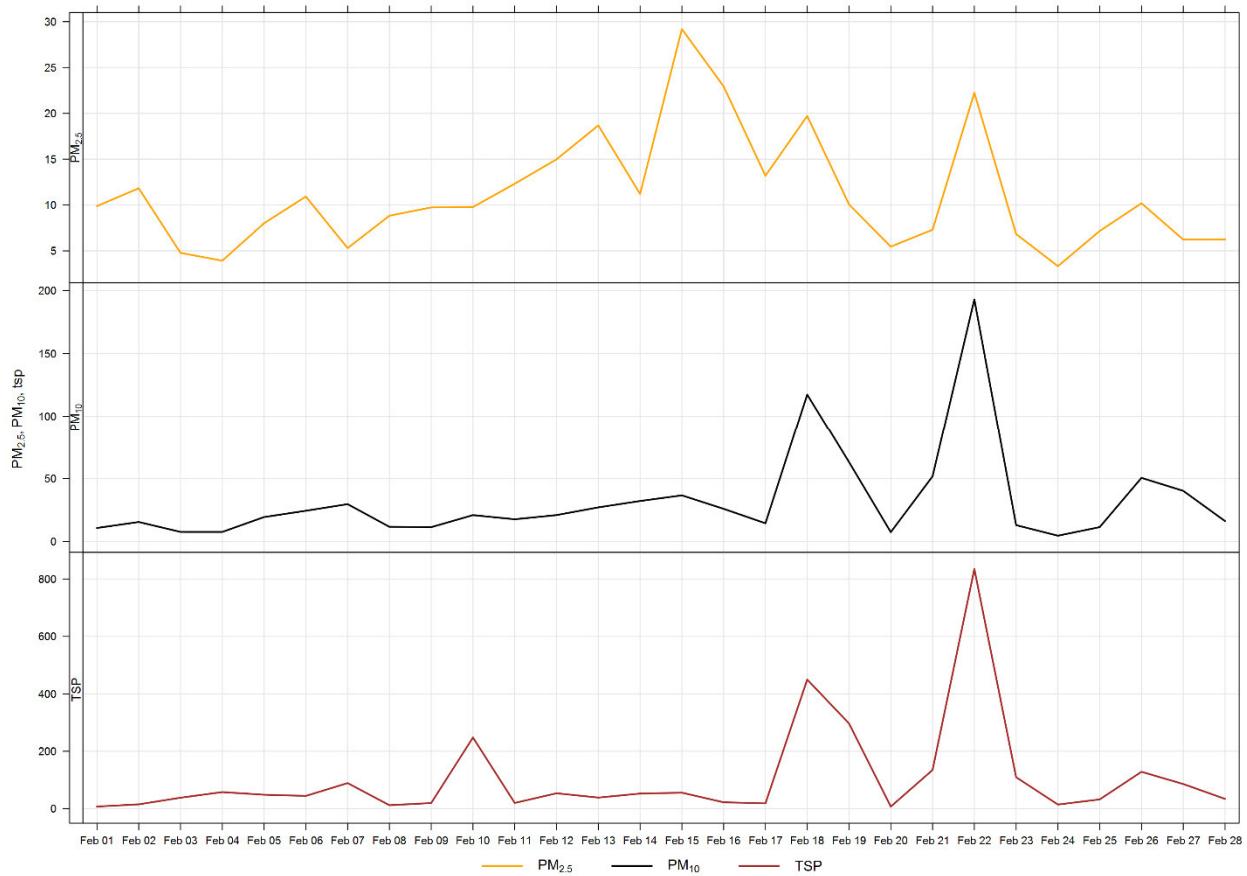


Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 7 days of TSP exceedances, while Figure 6-4 shows the wind rose for the 1 day of PM_{2.5} exceedances. The wind roses show that the winds predominantly came from the west-southwest and east-northeast directions for the TSP exceedance days, while the winds predominantly came from the east-northeast direction for the PM_{2.5} exceedance day.

Figure 6-5 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern is similar to the pattern at Windridge and Lagoon stations that is not associated with Lafarge operations this month. This could be a result of the atypical wind directions (causing other sources to impact the monitor) and the burning activities being conducted in the airshed in February.

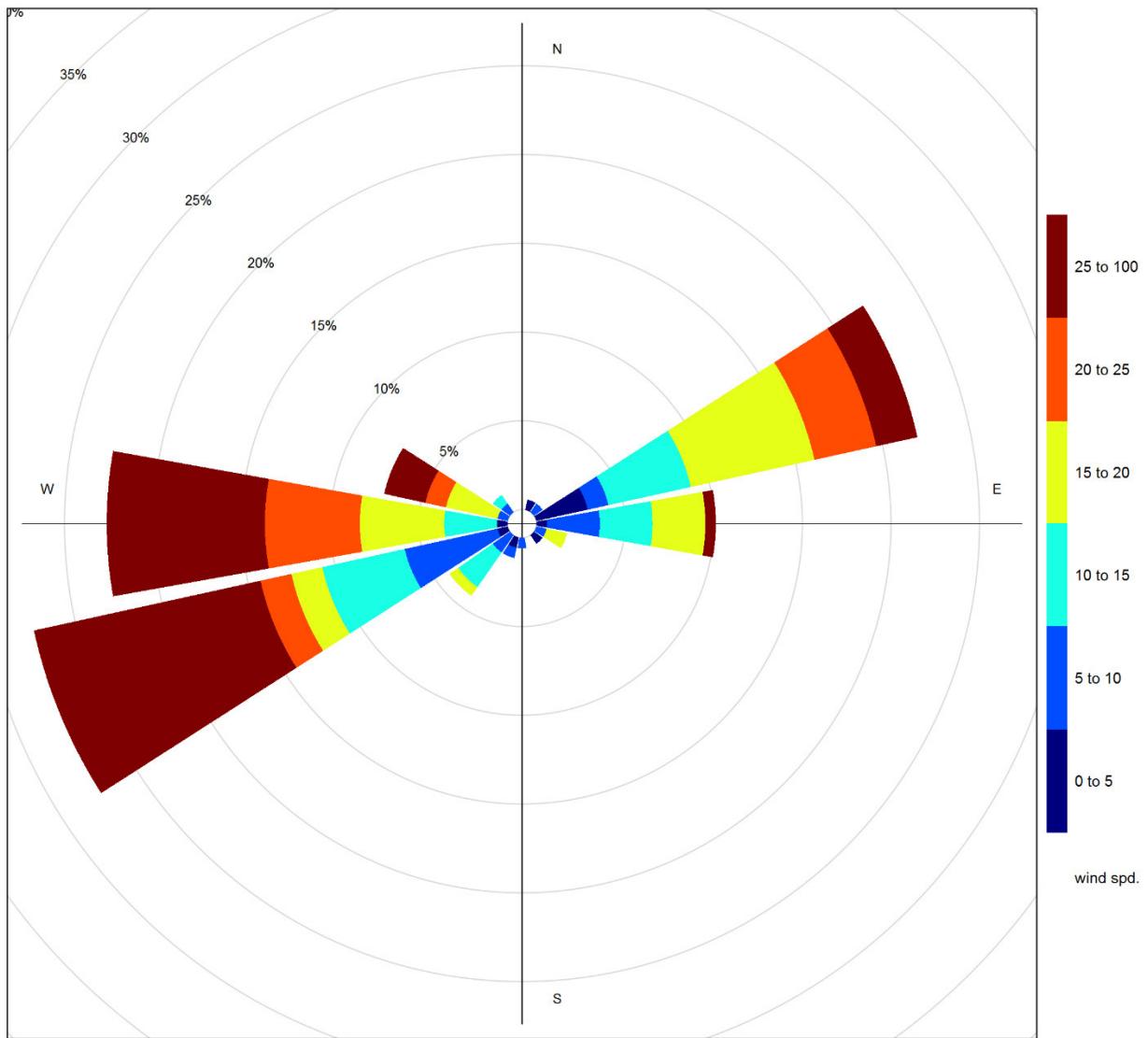


Figure 6-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

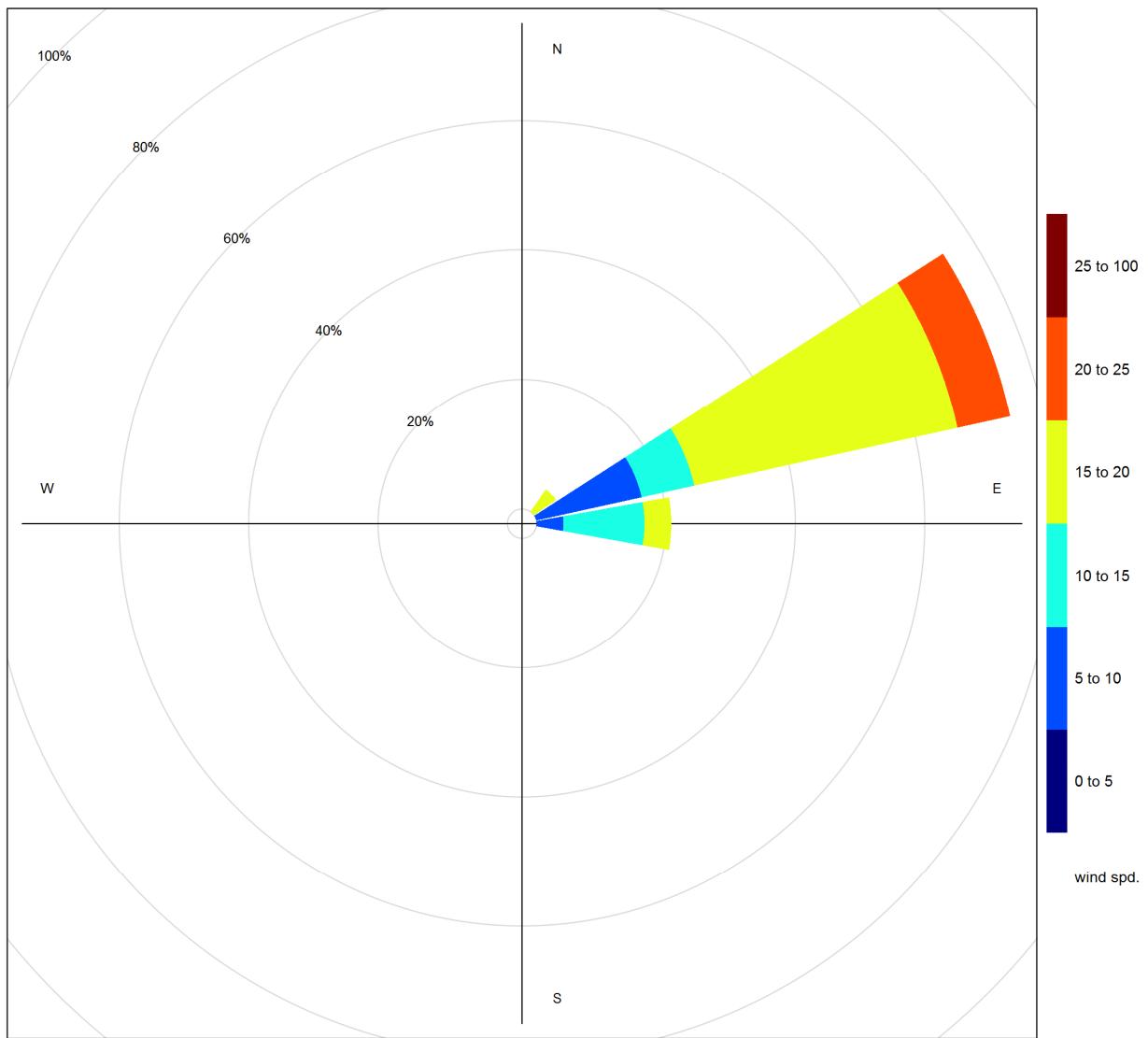


Figure 6-4 Wind rose for PM_{2.5} exceedance days recorded at the Berm GRIMM

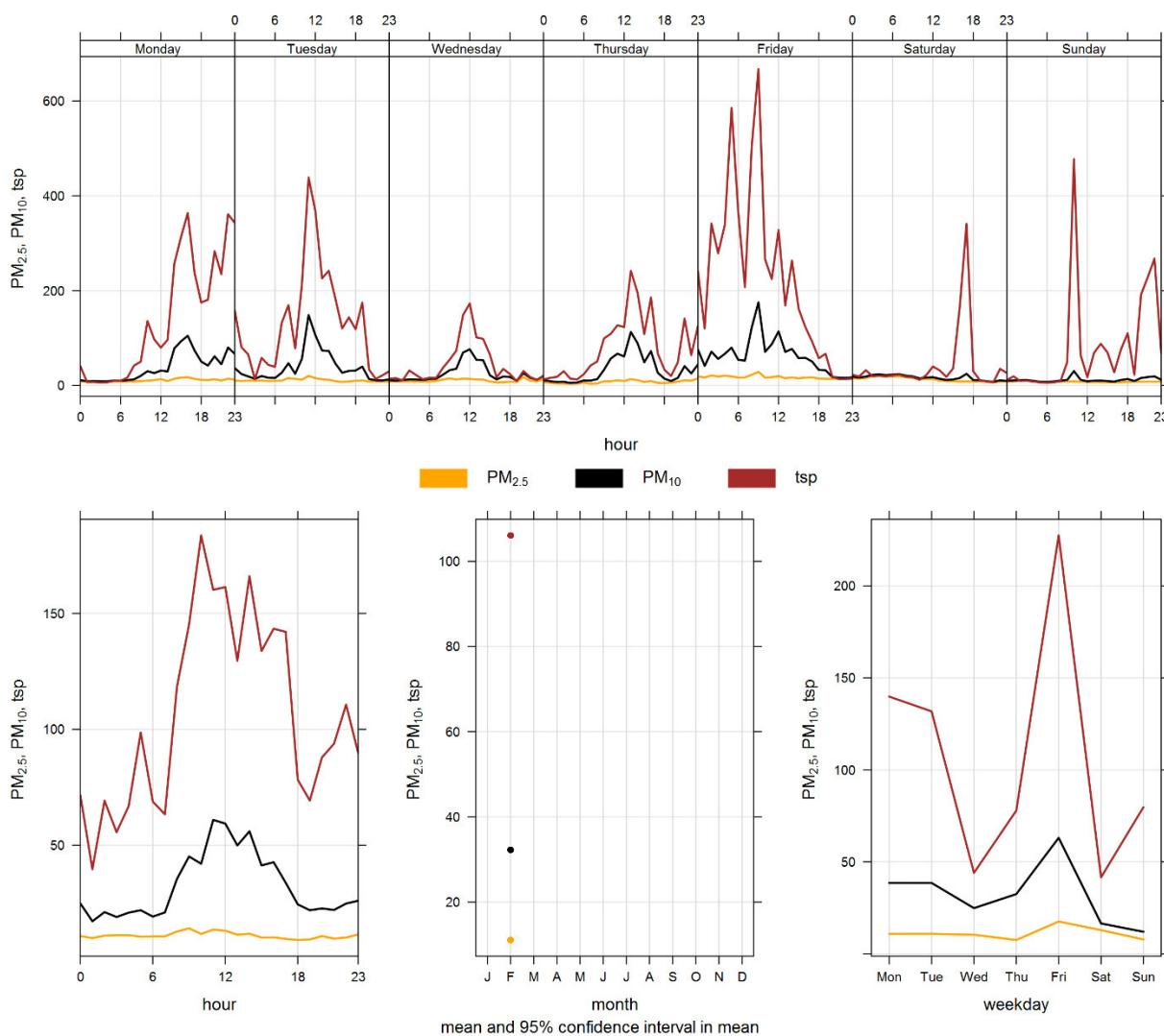


Figure 6-5 Berm particulate matter time variation

7 ENTRANCE INDUSTRIAL GRIMM

7.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 7-1.

Table 7-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	No operational issues observed. The monitors had 100% uptime in February.

7.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of dispersion modelling conducted in 2009. This area was indicated as being the area where the maximum PM concentrations were expected. Figure 7-1 and Figure 7-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 7-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. Table 7-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

During February, there were 7 and 1 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) guidelines, respectively. Fires from controlled pine beetle burns were also observed in February, which would contribute to higher levels of particulate, especially in the PM_{2.5} size fraction.

Historically, the Entrance monitor records an average of 16 and zero exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of February. The maximum number of TSP exceedances recorded during February occurred in 2014, which had 25 days that exceeded the guideline. The minimum number of TSP exceedances recorded during February occurred in 2011, which had 6 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances recorded during the month of February was 2 days in 2015.

It should also be noted that the GRIMM monitors become more conservative in the reported PM concentrations as the size fraction increases. The PM_{2.5} size fraction has been shown to match other regulatory approved PM_{2.5} monitors, but the TSP concentrations recorded by the GRIMM tend to be higher than regulatory approved monitors (Levelton, 2015).

The Entrance monitor is impacted by fugitive dust from plant activities, and high wind events. Trucks also pass near to the Entrance monitor as they enter and exit the Lafarge facility for loading and deliveries. Additionally, the monitor is closely located to Highway 1A. Traffic, particularly large trucks, can create dust while crossing over the railway tracks. This can all lead to the monitor recording high TSP concentrations, which are typically associated with fugitive dust sources. The CPR rail crossing is in disrepair and may be contributing to PM concentrations at the Entrance monitor. Lafarge has been informed the crossing is scheduled to be repaired in the spring of 2019.

Figure 7-3 shows the wind rose for the 7 days that exceeded the TSP Guideline, while Figure 7-4 shows the wind rose for the 1 day that exceeded the PM_{2.5} Guideline. The wind roses indicate that the winds predominantly came from the west and east-northeast directions for the TSP exceedance days, and from the east-northeast for the PM_{2.5} exceedance day. High wind speeds were a primary factor for about half of the TSP exceedances in February at the Entrance station. On those days without high wind speeds other sources, such as industry, traffic and rail may have

contributed to the TSP exceedances. Fires from controlled pine beetle burns could influence both TSP and PM_{2.5} exceedances.

Table 7-2 Summary of February 2019 data at the Entrance GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM _{2.5} (µg/m ³)	80	29	Entrance	0	1	1.3	11.7	48.4	18	8	18.2	272.7	30.0	15	100.0
PM ₁₀ (µg/m ³)	-	-	Entrance	-	-	2.2	25.1	235.1	18	22	30.9	271.1	89.5	18	100.0
TSP (µg/m ³)	-	100	Entrance	-	7	1.7	110.1	2700.0	22	3	38.6	257.6	678.2	22	100.0

Table 7-3 Days exceeding the Guideline for TSP or PM_{2.5} at the Entrance Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2/7/2019	127.5	-	287.6	13.9	63.5	
2/8/2019	244.3	-	72.6	15.5	73.4	
2/10/2019	145.9	-	67.0	14.6	66.9	
2/15/2019	-	30	70.2	14.7	76.1	Potential impacts from controlled pine beetle burns were observed in February, which would contribute to higher levels of particulate, especially in the PM _{2.5} size fraction. Impacts from residential woodsmoke would also impact the PM _{2.5} size fraction. All GRIMM monitors showed a PM _{2.5} exceedance on February 15 th under wind conditions from the West which would suggest impacts from a source(s) other than Lafarge.
2/18/2019	540.7	-	267.7	20.3	62.2	high wind event
2/19/2019	389.3	-	267.6	27.9	63.7	high wind event
2/22/2019	678.2	-	258.9	27.3	46.9	high wind event
2/27/2019	137.4	-	259.4	12.9	55.5	
Total # of Exceedances	7	1				

Maximum # of Exceedances (February)	25 (2014)	2 (2015)			
Average # of Exceedances (February)	16	0			
Minimum # of Exceedances (February)	6 (2011)	0 (2010, 2011, 2013, 2016 ~ 2018)			

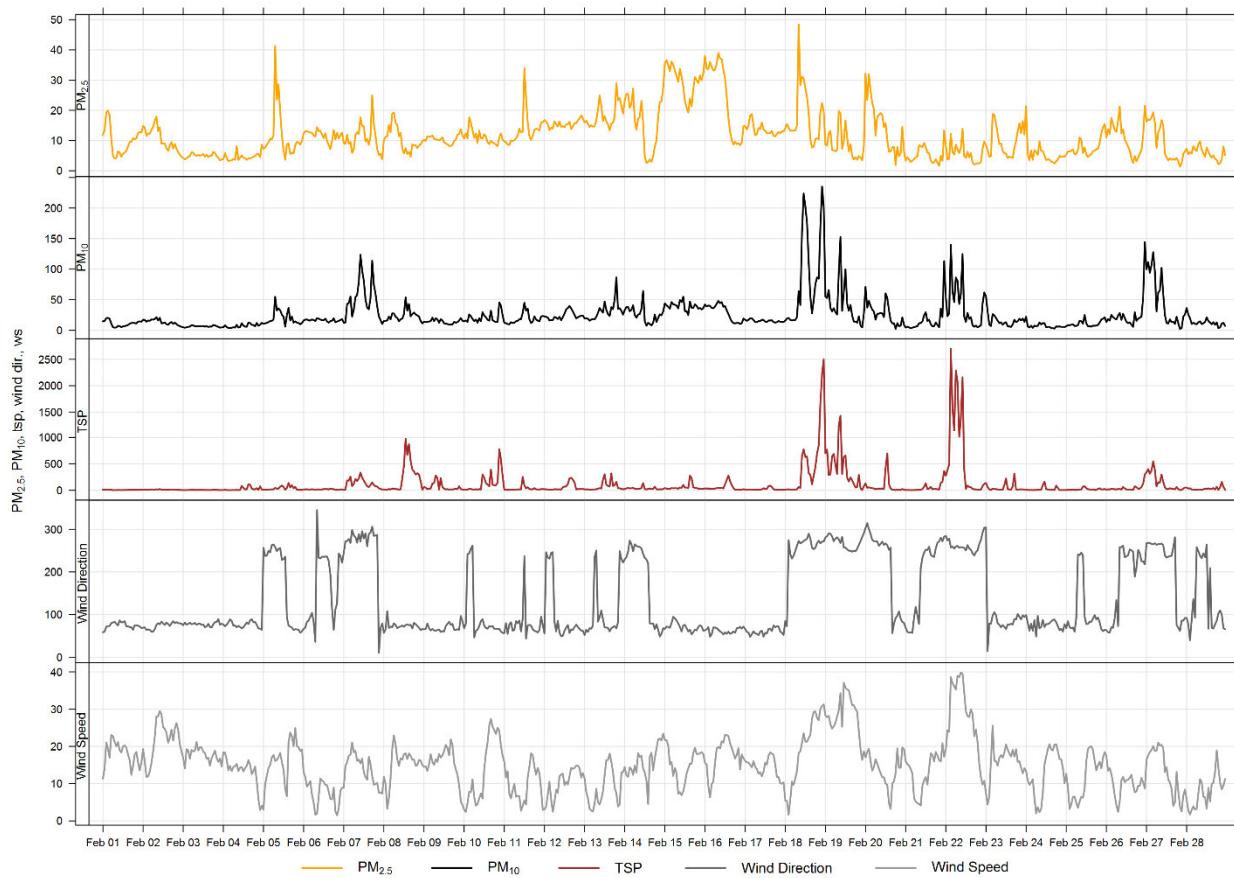


Figure 7-1 1-hour particulate matter concentrations recorded at the Entrance monitor

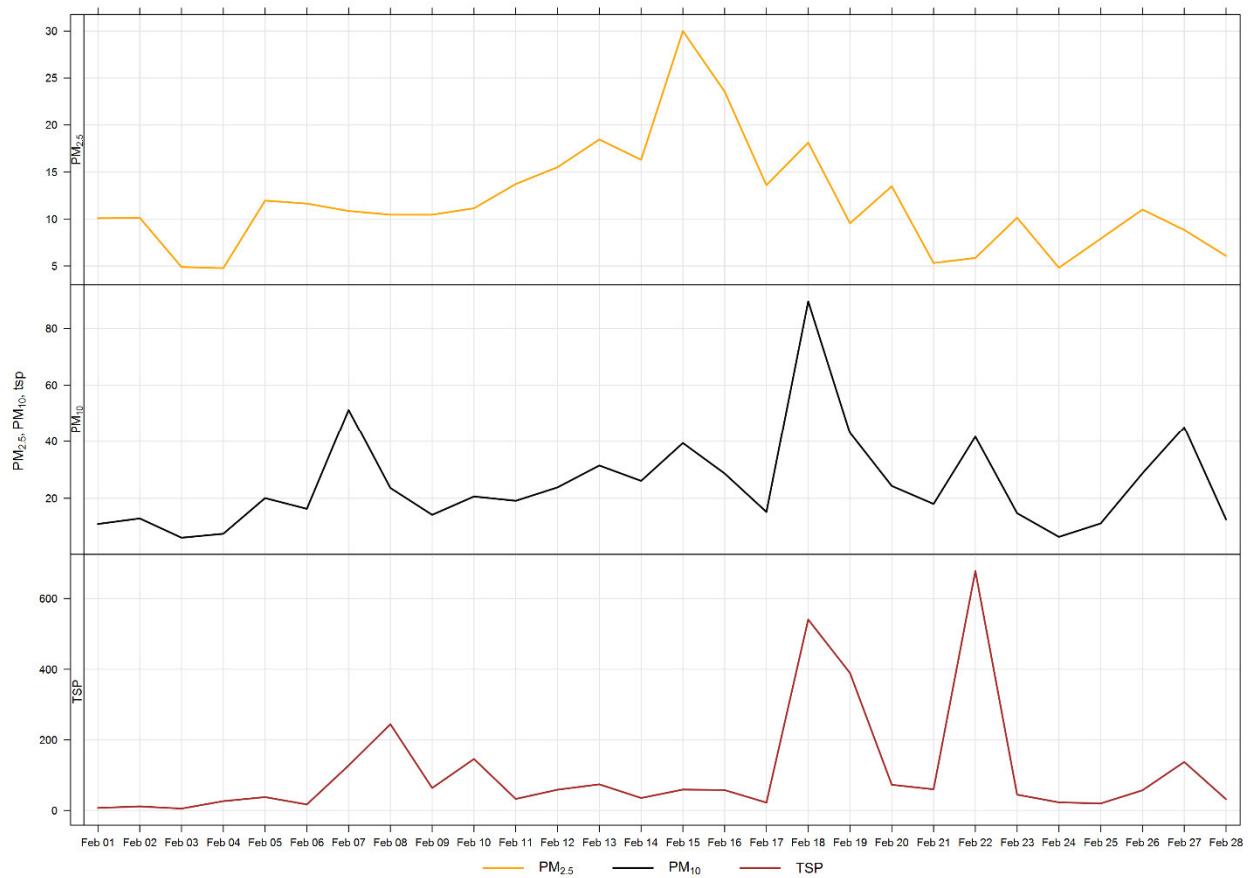


Figure 7-2 24-hour particulate matter concentrations at the Entrance monitor

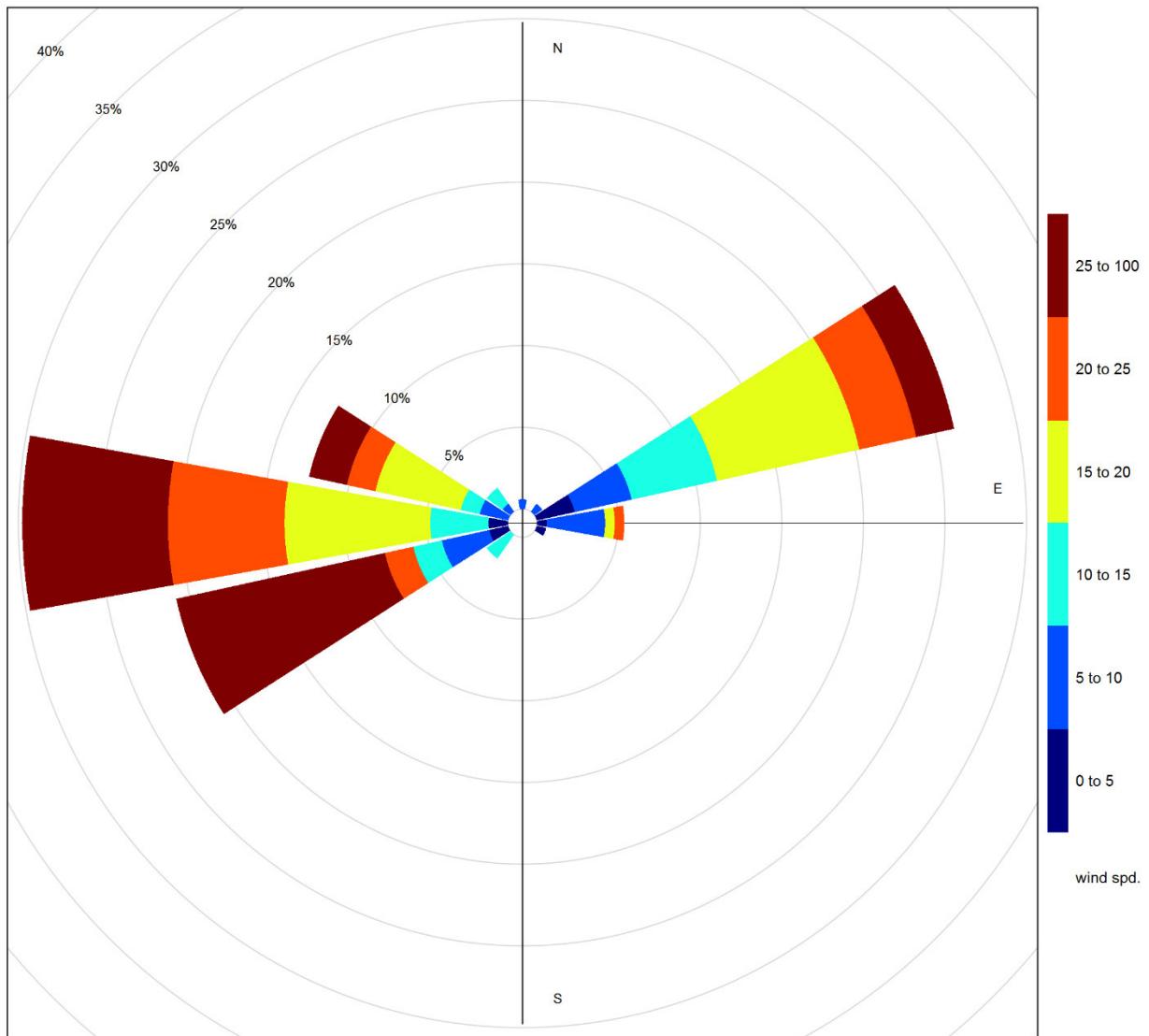


Figure 7-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

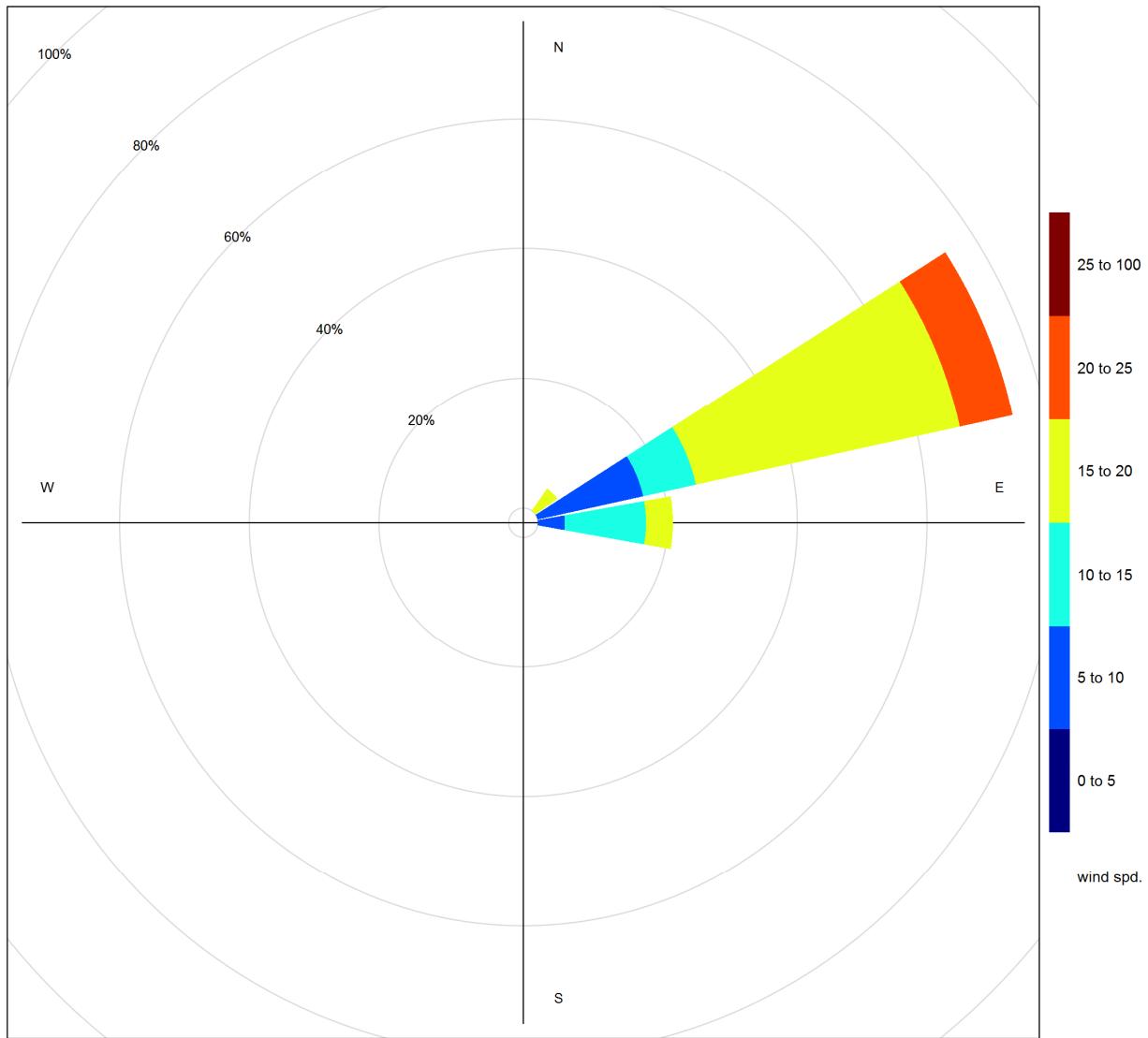


Figure 7-4 Wind rose for PM_{2.5} exceedance days recorded at the Entrance GRIMM

Figure 7-5 illustrates the hourly PM concentrations recorded at the Entrance monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 7-5 is based on data collected during February 2019 for which there is no discernable diurnal pattern. This could be a result of the atypical wind directions (causing other sources to impact the monitor) and the burning activities being conducted in the airshed in February.

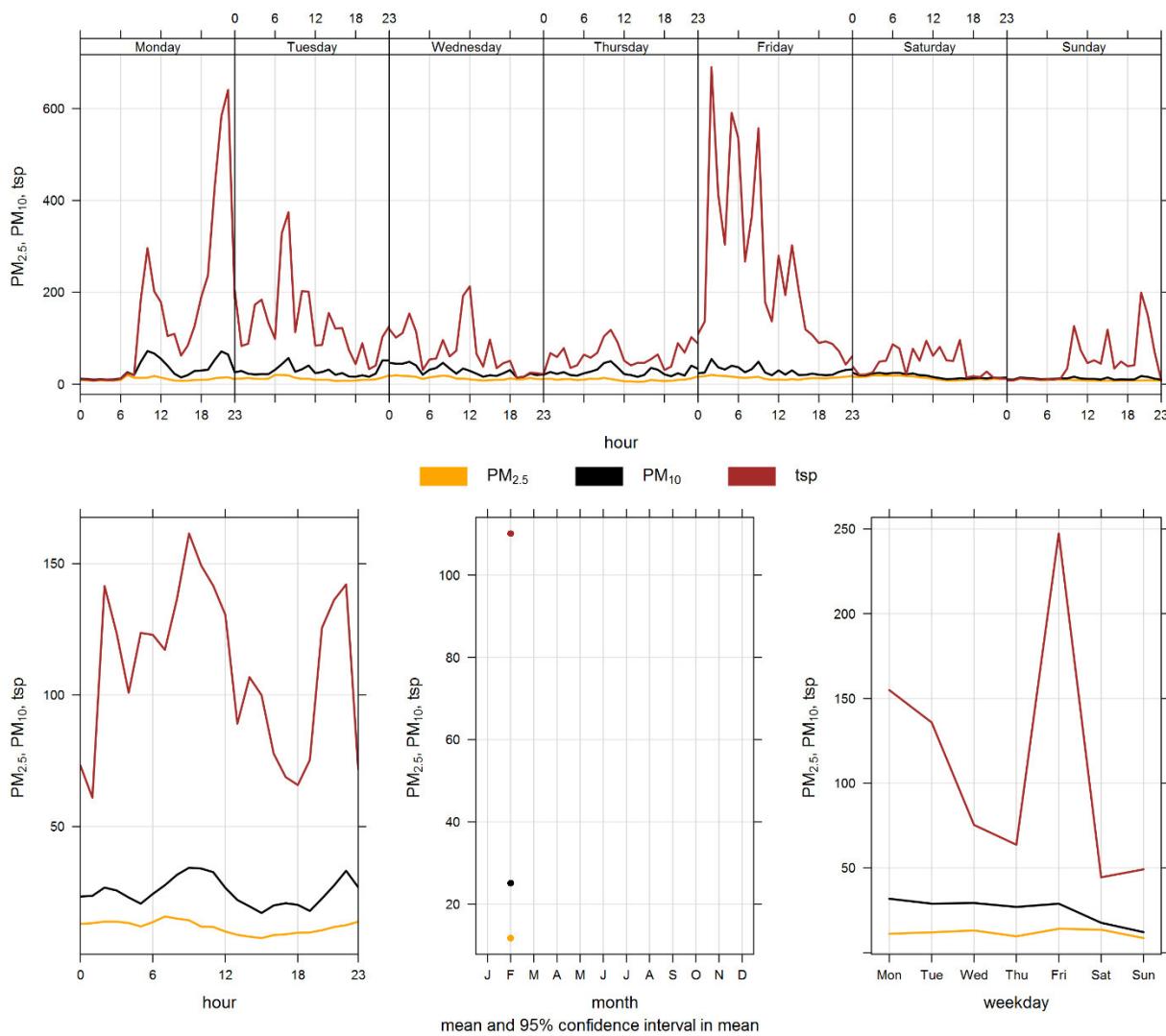


Figure 7-5 Entrance particulate matter time variation

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APPENDIX

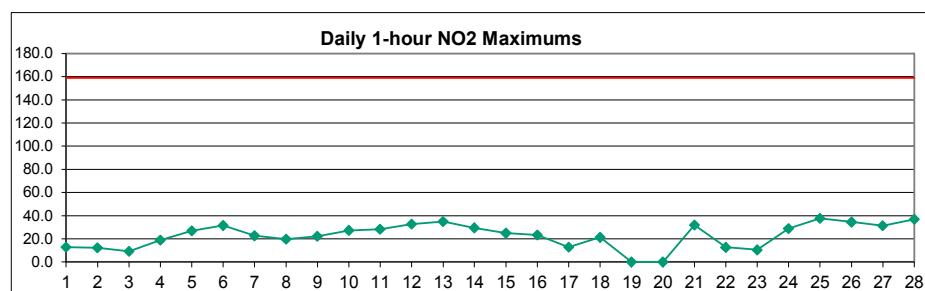
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – February 2019

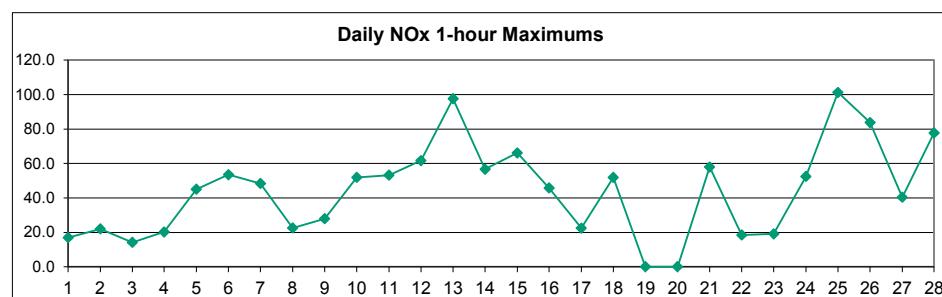
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.0	S	9.8	6.7	4.1	3.6	2.8	2.5	5.3	4.4	3.2	3.8	4.0	5.8	8.5	9.3	11.3	13.0	9.9	8.1	7.5	10.2	10.4	5.1	6.9	13.0
2	8.4	S	12.4	11.2	9.8	8.5	9.5	8.2	5.8	3.2	2.3	2.7	5.2	3.1	2.9	3.7	5.9	6.2	6.2	5.4	5.0	9.4	9.6	9.5	6.7	12.4
3	6.8	S	7.7	5.0	8.0	7.9	6.4	8.1	7.6	6.7	2.4	2.1	3.4	4.7	3.4	6.8	7.1	9.2	8.3	4.4	3.6	5.0	3.7	5.6	5.8	9.2
4	8.9	S	4.3	4.1	3.6	5.5	5.7	8.3	10.2	8.4	7.1	5.3	3.8	3.8	4.2	4.1	5.7	8.0	7.4	9.4	11.4	7.9	12.4	18.9	7.3	18.9
5	26.3	S	26.9	25.1	20.5	20.8	22.1	25.9	25.5	19.1	14.2	8.9	6.8	9.0	7.4	7.6	8.2	9.8	11.5	9.1	12.9	13.3	13.0	18.5	15.8	26.9
6	23.5	S	12.2	18.7	19.6	16.7	19.2	22.9	25.8	20.8	20.1	12.9	9.3	7.8	6.1	4.0	8.5	12.4	22.4	21.7	24.8	31.6	26.8	19.5	17.7	31.6
7	16.8	S	14.1	14.3	8.1	12.2	14.4	22.6	17.2	21.8	12.2	13.4	10.3	7.6	6.2	9.6	8.6	10.0	5.8	7.5	13.6	13.4	13.1	16.6	12.6	22.6
8	15.0	S	19.8	14.2	12.4	7.7	8.3	13.3	15.8	11.3	6.0	2.6	4.3	1.5	1.6	1.9	6.3	8.3	8.2	10.0	5.5	6.4	7.4	10.3	8.6	19.8
9	8.1	S	8.5	7.5	10.5	9.3	8.2	6.8	6.4	8.0	6.5	2.3	2.1	2.6	3.5	2.7	3.3	6.5	11.4	10.1	11.4	16.3	22.4	8.5	22.4	
10	23.5	S	27.3	22.7	20.2	20.5	20.5	19.0	17.5	13.8	10.9	9.5	7.6	7.4	6.7	6.5	7.5	10.6	10.6	9.7	11.4	10.5	9.8	9.7	13.6	27.3
11	11.8	S	8.2	11.7	15.0	9.9	11.9	17.3	18.5	13.1	9.4	12.1	14.3	8.4	5.4	4.7	7.0	9.9	12.3	13.2	10.6	14.6	23.5	28.4	12.7	28.4
12	26.9	S	32.7	32.7	32.3	31.6	23.9	17.4	20.9	7.8	8.4	7.1	7.5	9.7	12.9	8.6	9.0	8.7	5.3	7.7	7.9	9.2	10.9	10.1	15.2	32.7
13	7.9	S	6.8	17.0	18.7	27.3	25.0	33.0	31.9	16.7	8.5	12.3	11.1	8.4	8.4	11.3	18.1	22.8	22.7	23.7	35.0	33.5	32.4	31.6	20.2	35.0
14	29.5	S	18.7	15.1	14.2	16.4	15.3	22.3	20.8	23.5	13.9	9.7	5.6	7.4	6.5	4.5	6.1	11.8	5.4	6.1	11.0	7.0	10.0	19.2	13.1	29.5
15	22.8	S	24.3	22.4	20.4	19.4	18.2	15.5	15.8	24.8	21.9	12.7	17.8	17.4	15.7	22.1	24.6	20.5	20.5	18.8	15.7	16.4	17.1	20.2	19.4	24.8
16	23.3	S	22.7	23.1	20.9	18.2	18.5	20.6	20.3	18.4	18.4	11.3	14.4	9.8	10.0	15.2	18.3	8.2	5.6	6.0	5.9	6.1	6.2	3.8	14.1	23.3
17	11.8	S	9.5	5.5	9.2	12.7	9.1	10.8	9.2	11.8	5.7	3.0	4.5	4.7	5.0	8.5	4.6	8.1	10.6	9.6	13.0	8.6	9.4	9.7	8.5	13.0
18	14.1	S	16.6	18.6	19.7	21.3	16.3	14.3	16.5	17.8	12.4	12.2	12.5	10.2	9.4	6.5	2.7	1.9	7.0	9.3	7.6	10.3	8.2	12.0	12.1	21.3
19	12.2	S	13.1	11.0	6.1	8.5	17.0	9.2	5.5	8.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7.4	1.3	1.3	1.4	1.3	1.5	1.4	2.2	-
21	6.8	S	2.1	13.7	19.5	14.8	21.8	31.9	28.3	24.6	14.8	11.6	7.1	7.0	2.4	2.0	2.3	6.6	6.2	4.8	7.1	5.4	11.2	14.1	11.6	31.9
22	8.3	S	5.7	5.7	4.3	5.3	5.9	6.9	8.4	7.8	7.6	3.6	8.7	4.6	3.8	1.0	1.8	2.7	4.1	12.8	5.7	6.8	7.6	6.3	5.9	12.8
23	10.5	S	6.2	6.3	6.5	5.1	4.6	3.5	4.2	3.1	6.0	7.7	1.7	1.6	2.8	5.9	2.7	5.4	3.9	4.3	6.8	4.0	3.3	2.7	4.7	10.5
24	3.3	S	15.2	8.6	15.4	10.0	17.4	28.9	18.2	18.7	8.6	3.5	3.0	2.6	2.6	2.3	2.4	2.2	3.6	5.4	6.2	10.0	5.2	18.5	9.2	28.9
25	17.0	S	15.1	12.2	20.0	21.5	25.0	28.2	25.0	15.3	10.3	4.8	3.2	2.6	3.5	3.5	3.6	4.6	5.8	12.7	25.2	31.9	37.7	28.1	15.5	37.7
26	17.2	S	28.1	34.4	33.0	24.3	29.1	34.5	27.6	18.2	14.5	9.0	5.6	4.7	6.0	3.8	1.7	2.6	5.6	12.9	16.8	18.2	14.8	14.7	16.4	34.5
27	16.2	S	21.0	20.5	16.2	15.1	19.4	19.7	20.4	16.3	10.0	6.6	4.5	4.0	5.4	11.6	13.8	7.8	6.8	6.5	11.5	23.5	18.5	31.3	14.2	31.3
28	27.1	S	37.0	34.8	33.9	34.2	36.4	32.6	26.8	23.9	11.7	15.5	10.7	2.4	6.5	8.7	5.6	4.8	2.2	2.5	2.2	3.9	6.2	1.8	16.1	37.0
NO.	27	-	27	27	27	27	27	27	27	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	615	96%
MEAN	15.3	-	15.8	15.7	15.6	15.1	16.0	17.9	16.9	14.3	10.3	7.9	7.3	6.1	6.0	6.8	7.5	8.3	8.5	9.4	11.0	12.4	13.0	14.5		
MAX	29.5	-	37.0	34.8	33.9	34.2	36.4	34.5	31.9	24.8	21.9	15.5	17.8	17.4	15.7	22.1	24.6	22.8	22.7	23.7	35.0	33.5	37.7	31.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	615
Maximum 1-HR Average	37.7 PPB
Maximum 24-HR Average	20.2 PPB
Monthly Calibration Standard Deviation	8.0
Operational Time	642 HRS
Operational Uptime	95.5 %
Monthly Average	11.9 PPB

Lagoon NOx (ppb) – February 2019

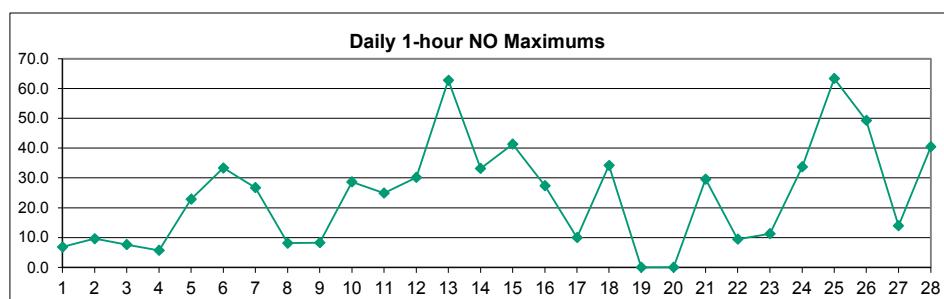
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.2	S	11.8	7.2	4.5	4.0	3.3	3.1	9.5	6.6	4.9	6.5	6.3	10.4	14.3	15.6	15.6	16.2	11.2	9.2	9.0	16.9	16.6	6.2	9.6	16.9
2	13.8	S	21.9	19.0	14.9	10.4	14.1	12.0	7.4	4.1	3.4	4.0	9.3	5.0	4.9	5.2	8.6	7.1	7.4	6.4	6.0	13.7	13.2	12.7	9.7	21.9
3	8.1	S	10.8	6.7	12.9	11.6	10.3	12.7	12.6	11.2	4.2	3.8	7.3	10.4	6.3	14.1	11.2	14.1	10.8	5.0	3.9	6.3	4.2	7.6	9.0	14.1
4	14.4	S	5.0	4.5	4.1	6.8	7.1	10.8	12.9	12.8	11.8	9.5	7.4	7.8	8.2	6.9	7.6	9.3	7.8	10.6	13.1	8.2	13.2	20.2	9.6	20.2
5	30.0	S	30.2	28.4	24.3	23.0	26.3	35.5	45.1	42.0	33.5	23.8	17.2	20.6	14.6	13.7	11.8	13.0	14.5	10.5	17.8	17.2	18.4	28.8	23.5	45.1
6	50.0	S	15.8	41.6	40.4	20.0	21.2	28.6	50.7	42.5	53.4	34.0	21.0	15.8	10.7	6.0	10.8	15.2	24.0	23.5	28.3	36.5	28.5	22.0	27.8	53.4
7	24.6	S	21.1	23.8	9.1	17.7	23.9	41.0	35.0	48.4	26.5	28.9	22.9	13.9	12.0	15.8	12.6	14.3	6.5	9.2	17.9	14.5	14.1	18.3	20.5	48.4
8	16.5	S	22.5	15.3	14.1	8.3	9.1	16.7	22.1	19.1	10.0	4.3	8.0	2.7	3.1	3.0	8.4	9.8	10.4	12.7	6.3	8.0	9.2	13.9	11.0	22.5
9	11.3	S	10.6	10.2	16.2	15.0	12.0	9.1	9.4	15.3	14.5	5.1	4.4	4.6	5.1	4.5	4.6	8.2	14.2	17.0	15.0	19.8	27.9	25.9	12.2	27.9
10	52.0	S	36.5	26.0	24.8	30.4	27.2	26.7	26.0	28.2	27.8	25.4	19.4	16.7	14.2	11.3	12.0	14.1	14.1	13.8	18.7	15.9	16.5	13.9	22.2	52.0
11	15.7	S	9.4	14.0	21.9	12.2	13.0	21.2	33.8	22.5	18.2	28.8	38.0	18.0	9.9	7.7	9.9	11.7	14.6	15.4	11.9	16.1	47.5	53.2	20.2	53.2
12	33.9	S	53.0	52.6	52.0	61.7	36.7	27.6	38.2	11.2	14.4	12.5	13.0	16.4	24.9	13.3	11.4	9.8	5.8	10.9	8.5	10.3	12.7	13.2	23.6	61.7
13	8.9	S	7.1	19.1	20.1	34.1	28.8	59.1	78.0	29.2	16.2	30.3	28.5	17.8	16.4	21.3	34.7	35.3	26.0	40.4	97.6	50.8	45.3	42.8	34.3	97.6
14	39.5	S	22.4	21.0	17.6	25.4	23.8	41.0	32.3	56.6	27.9	19.6	10.7	14.1	10.3	6.7	8.9	17.0	5.9	6.7	13.7	7.5	10.9	23.1	20.1	56.6
15	26.9	S	34.6	27.0	24.5	24.5	24.3	18.2	22.3	66.0	44.6	23.9	38.4	36.7	24.4	42.7	42.5	24.5	23.3	22.6	16.5	17.4	21.0	32.6	29.5	66.0
16	40.9	S	34.0	36.0	28.5	19.5	20.1	26.4	37.7	37.0	45.7	21.8	41.1	21.1	19.8	30.6	33.1	11.0	6.7	8.5	6.8	7.5	7.2	4.6	23.7	45.7
17	16.3	S	17.5	6.5	13.3	22.4	14.8	16.6	12.6	20.4	10.0	5.1	9.4	7.8	9.1	16.2	7.2	10.7	12.0	10.7	20.2	10.3	12.5	10.3	12.7	22.4
18	16.8	S	19.1	20.5	22.6	25.3	21.0	18.5	33.0	51.9	35.0	38.3	35.5	24.1	19.4	11.5	3.9	2.4	10.1	13.8	13.3	22.7	12.3	22.3	21.4	51.9
19	22.1	S	25.2	18.5	8.8	13.9	44.1	16.8	8.4	14.9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
21	11.6	S	2.7	18.4	23.2	15.4	23.3	46.7	57.9	54.5	32.2	25.7	14.7	13.5	4.0	3.1	3.3	8.7	6.5	5.0	8.4	7.1	16.1	24.9	18.6	57.9
22	10.2	S	8.4	7.9	5.8	7.0	8.9	10.1	13.8	15.0	13.2	6.1	18.3	8.4	6.9	1.6	3.2	3.8	5.5	18.5	6.0	8.1	11.9	7.2	8.9	18.5
23	12.8	S	7.8	6.4	6.5	5.0	4.9	3.7	5.3	4.8	12.2	19.1	3.3	2.6	4.8	11.1	3.2	7.3	4.0	4.5	7.9	4.8	3.2	2.6	6.4	19.1
24	3.5	S	20.1	11.2	17.4	10.0	23.2	43.8	29.9	52.5	19.9	6.3	5.7	5.3	4.5	3.6	3.3	2.7	3.9	6.0	8.5	13.1	5.6	27.1	14.2	52.5
25	20.2	S	18.5	13.6	27.8	25.6	28.9	35.5	41.1	29.8	22.2	9.0	5.9	4.5	5.5	5.3	4.3	5.1	5.8	12.8	36.0	54.9	101.2	54.2	24.7	101.2
26	19.2	S	54.6	83.8	69.7	28.1	36.2	57.8	50.3	36.9	33.0	18.9	10.9	8.5	11.1	6.0	2.1	2.9	8.5	13.5	17.1	19.0	15.1	18.9	27.0	83.8
27	23.5	S	32.4	33.0	20.9	18.7	26.7	27.2	34.4	29.8	17.9	11.6	7.5	6.2	8.7	21.2	21.2	9.6	7.0	6.7	11.6	25.4	20.8	40.3	20.1	40.3
28	30.0	S	77.8	58.8	56.9	50.1	57.0	42.7	42.9	44.4	22.5	32.2	20.6	3.4	11.8	13.6	8.9	6.2	2.2	2.5	2.2	4.3	6.5	1.9	26.1	77.8
NO.	27	-	27	27	27	27	27	27	27	27	26	26	26	26	26	26	26	27	27	27	27	27	27	27	615	96%
MEAN	21.7	-	23.4	23.4	22.3	20.2	21.8	26.3	29.7	29.9	22.1	17.5	16.3	12.2	11.0	12.0	11.6	10.8	10.0	11.8	15.7	16.2	19.0	20.4		
MAX	52.0	-	77.8	83.8	69.7	61.7	57.0	59.1	78.0	66.0	53.4	38.3	41.1	36.7	24.9	42.7	42.5	35.3	26.0	40.4	97.6	54.9	101.2	54.2		



Number of Non-Zero Readings	615
Maximum 1-HR Average	101.2 PPB
Maximum 24-HR Average	34.3 PPB
Monthly Calibration Standard Deviation	14.6
Operational Time	642 HRS
Operational Uptime	95.5 %
Monthly Average	18.5 PPB

Lagoon NO (ppb) – February 2019

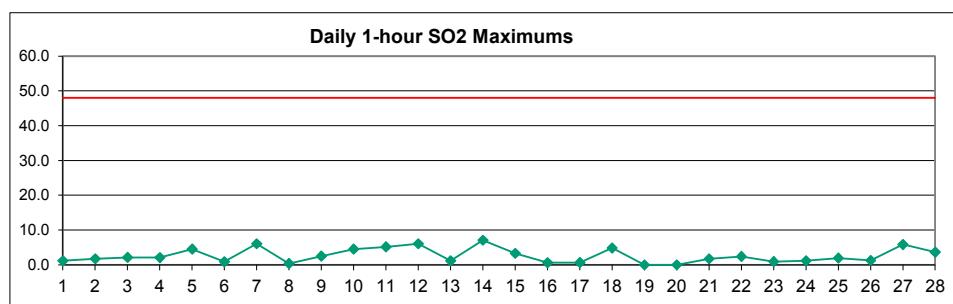
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.4	S	2.2	0.7	0.5	0.5	0.6	0.7	4.3	2.2	1.8	2.9	2.5	4.8	6.0	6.4	4.5	3.3	1.5	1.3	1.6	6.8	6.3	1.3	2.9	6.8
2	5.5	S	9.6	7.9	5.2	2.1	4.7	3.9	1.6	0.8	1.0	1.3	4.1	1.9	1.9	1.5	2.7	0.9	1.3	1.0	1.0	4.4	3.9	3.5	3.1	9.6
3	1.6	S	3.4	2.0	5.1	4.0	4.1	4.9	5.3	4.8	2.0	1.9	4.1	6.0	3.2	7.6	4.5	5.2	2.8	0.9	0.6	1.5	0.8	2.2	3.4	7.6
4	5.7	S	0.9	0.7	0.8	1.6	1.6	2.8	3.0	4.7	5.1	4.4	3.9	4.3	4.3	3.1	2.2	1.7	0.7	1.5	2.0	0.7	1.1	1.5	2.5	5.7
5	3.9	S	3.5	3.5	4.0	2.4	4.4	9.6	19.6	22.9	19.4	15.0	10.8	12.0	7.6	6.5	4.1	3.5	3.3	1.8	5.1	4.3	5.8	10.5	8.0	22.9
6	26.5	S	3.9	23.1	21.0	3.5	2.3	6.0	24.9	21.8	33.3	21.3	12.2	8.4	4.9	2.2	2.7	3.2	1.9	2.2	3.8	5.1	1.9	2.8	10.4	33.3
7	8.1	S	7.4	9.8	1.4	5.8	9.8	18.5	18.1	26.7	14.6	15.7	12.9	6.6	6.1	6.5	4.2	4.5	0.9	2.0	4.5	1.4	1.2	2.0	8.2	26.7
8	1.8	S	3.0	1.3	1.9	0.8	1.0	3.6	6.4	8.1	4.2	1.8	3.8	1.2	1.6	1.2	2.3	1.8	2.3	2.8	1.0	1.9	2.2	3.9	2.6	8.1
9	3.5	S	2.3	3.0	6.1	6.1	4.1	2.7	3.4	7.7	8.3	3.0	2.5	2.3	1.8	2.1	1.5	2.0	3.2	7.2	4.0	3.7	5.8	3.8	3.9	8.3
10	28.6	S	9.4	3.6	4.9	10.1	7.0	8.0	8.9	14.7	17.3	16.2	12.3	9.8	7.9	5.2	4.9	3.9	3.8	4.4	7.5	5.7	7.0	4.5	8.9	28.6
11	4.2	S	1.5	2.7	7.2	2.6	1.4	4.2	15.6	9.7	9.2	17.0	23.9	10.0	4.9	3.4	3.3	2.2	2.6	2.5	1.7	1.9	24.2	24.9	7.9	24.9
12	7.2	S	20.4	20.1	19.8	30.1	13.0	10.6	17.5	3.9	6.4	5.9	5.9	7.1	12.4	5.2	2.8	1.5	0.9	3.5	0.9	1.5	2.1	3.4	8.8	30.1
13	1.4	S	0.7	2.3	1.6	7.0	4.0	26.2	46.2	12.8	8.1	18.4	17.7	9.9	8.4	10.3	16.8	12.7	3.5	16.9	62.8	17.3	13.1	11.4	14.3	62.8
14	10.2	S	4.0	6.1	3.7	9.3	8.8	18.9	11.8	33.2	14.2	10.3	5.5	7.1	4.3	2.5	3.1	5.4	0.9	0.9	3.0	0.8	1.1	4.1	7.4	33.2
15	4.3	S	10.4	4.9	4.4	5.4	6.4	3.0	6.8	41.3	22.8	11.5	20.8	19.5	9.0	20.8	18.0	4.2	3.1	4.0	1.0	1.2	4.2	12.5	10.4	41.3
16	17.8	S	11.5	13.1	7.8	1.6	1.9	6.1	17.6	18.8	27.4	10.8	26.9	11.6	10.1	15.6	15.1	3.0	1.4	2.7	1.2	1.7	1.4	1.0	9.8	27.4
17	4.7	S	8.3	1.2	4.4	10.0	5.9	6.1	3.6	8.8	4.5	2.3	5.1	3.3	4.3	8.0	2.8	2.8	1.7	1.3	7.4	1.9	3.3	0.9	4.5	10.0
18	2.9	S	2.7	2.1	3.2	4.3	4.8	4.5	16.7	34.2	22.8	26.4	23.2	14.1	10.2	5.3	1.3	0.7	3.3	4.8	5.9	12.6	4.4	10.5	9.6	34.2
19	10.2	S	12.4	7.8	2.9	5.7	27.3	8.0	3.2	7.2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
21	4.8	S	0.5	4.6	3.6	0.5	1.5	14.5	29.3	29.6	17.2	14.0	7.7	6.5	1.5	0.9	0.9	2.1	0.3	0.3	1.4	1.7	4.8	10.8	6.9	29.6
22	1.9	S	2.6	2.1	1.4	1.6	2.8	3.1	5.3	7.1	5.5	2.3	9.4	3.7	3.0	0.4	1.3	1.0	1.3	5.6	0.3	1.3	4.2	0.8	3.0	9.4
23	2.3	S	1.5	0.1	0.0	0.0	0.2	0.1	1.1	1.6	6.0	11.2	1.5	0.9	1.9	5.1	0.4	1.8	0.0	0.0	1.0	0.7	0.0	0.0	1.6	11.2
24	0.1	S	4.7	2.5	1.9	0.1	5.7	14.7	11.6	33.7	11.3	2.8	2.7	2.7	1.9	1.3	0.9	0.5	0.4	0.6	2.3	3.1	0.5	8.5	5.0	33.7
25	3.2	S	3.5	1.5	7.8	4.1	3.8	7.1	16.0	14.5	11.9	4.3	2.8	1.8	2.0	1.7	0.7	0.5	0.0	0.1	10.7	22.8	63.3	26.1	9.1	63.3
26	2.1	S	26.5	49.3	36.5	3.8	7.0	23.0	22.6	18.6	18.4	10.0	5.4	3.9	5.2	2.2	0.4	0.3	3.0	0.6	0.4	0.8	0.2	4.2	10.6	49.3
27	7.3	S	11.3	12.5	4.6	3.6	7.3	7.4	14.0	13.4	7.9	5.1	3.1	2.3	3.3	9.6	7.3	1.8	0.3	0.2	0.2	1.9	2.3	8.9	5.9	14.0
28	2.8	S	40.5	23.7	22.7	15.6	20.3	9.9	15.8	20.3	10.9	16.7	9.9	1.0	5.4	4.9	3.3	1.3	0.0	0.0	0.4	0.3	0.1	9.8	40.5	
NO.	27	-	27	27	27	27	27	27	27	27	26	26	26	26	26	26	27	27	27	27	27	27	27	27	615	96%
MEAN	6.5	-	7.7	7.8	6.8	5.3	6.0	8.4	13.0	15.7	12.0	9.7	9.2	6.3	5.1	5.4	4.2	2.7	1.6	2.6	4.9	4.0	6.1	6.1		
MAX	28.6	-	40.5	49.3	36.5	30.1	27.3	26.2	46.2	41.3	33.3	26.4	26.9	19.5	12.4	20.8	18.0	12.7	3.8	16.9	62.8	22.8	63.3	26.1		



Number of Non-Zero Readings	604
Maximum 1-HR Average	63.3 PPB
Maximum 24-HR Average	14.3 PPB
Monthly Calibration Standard Deviation	8.143
Operational Time	642 HRS
Operational Uptime	95.5 %
Monthly Average	6.8 PPB

Lagoon SO₂ (ppb) – February 2019

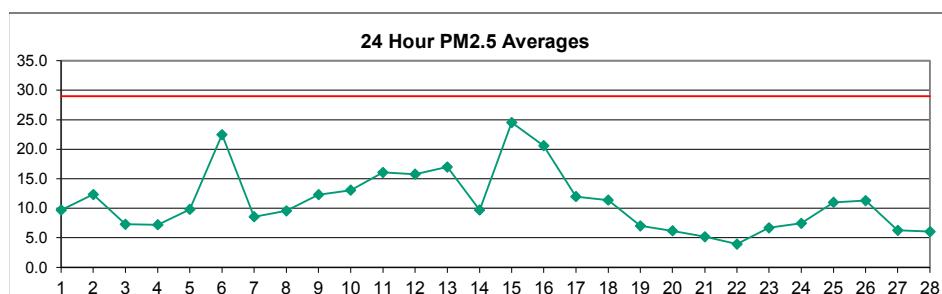
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.8	S	0.5	0.3	0.3	0.6	0.8	0.9	0.9	0.3	0.6	1.2	0.4	0.5	0.9	0.4	0.7	0.1	0.6	0.0	0.0	0.1	0.0	0.1	0.5	1.2	
2	0.2	S	0.2	0.3	0.0	0.4	1.3	1.8	0.3	0.3	0.7	0.3	0.1	0.0	0.6	0.0	0.4	0.1	0.8	1.0	0.8	0.9	0.3	0.2	0.5	1.8	
3	0.8	S	0.5	0.9	1.1	0.9	1.3	1.2	0.8	1.7	1.7	1.4	0.7	1.1	0.8	0.6	0.7	0.1	0.7	0.9	1.4	1.7	1.9	2.1	1.1	2.1	
4	2.1	S	1.5	0.8	0.5	0.4	0.0	0.0	0.0	0.1	0.6	0.8	0.8	0.7	1.0	1.0	0.5	0.3	0.2	0.7	0.0	0.0	0.0	0.0	0.5	2.1	
5	0.0	S	0.6	0.0	0.7	0.0	0.0	0.0	0.3	0.6	0.0	0.2	0.1	0.3	0.3	0.0	2.0	1.3	3.3	4.5	3.9	2.0	0.5	0.0	0.9	4.5	
6	0.1	S	0.1	0.4	0.9	0.1	0.0	0.0	0.3	0.0	0.0	0.4	0.5	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.9	
7	0.5	S	0.9	1.4	0.0	0.1	1.8	4.8	2.8	6.1	1.4	3.2	2.8	0.0	0.4	0.5	0.1	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	1.2	6.1
8	0.0	S	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.4	
9	0.2	S	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.0	0.0	0.3	0.6	0.6	0.3	0.2	0.3	0.5	2.0	2.5	2.2	0.4	0.0	0.0	0.0	0.5	2.5
10	0.0	S	1.2	0.5	0.6	0.9	0.0	0.0	0.0	0.5	0.6	0.7	0.7	1.8	1.9	1.3	1.3	2.7	4.0	3.7	4.1	4.6	4.2	1.6	4.6	1.6	
11	2.7	S	1.6	1.4	0.7	1.7	1.6	0.6	0.4	0.6	1.4	3.6	5.2	1.7	0.4	0.5	1.2	2.0	3.1	4.0	2.5	1.1	0.1	0.5	1.7	5.2	
12	0.0	S	0.3	0.1	0.3	0.2	0.1	0.7	0.1	2.3	5.7	6.0	4.2	3.4	2.5	1.8	1.3	0.5	0.5	0.0	0.3	0.0	0.2	0.0	0.0	1.3	6.0
13	0.0	S	0.1	0.0	0.0	0.0	0.6	1.0	0.1	0.0	0.4	0.9	1.1	0.7	0.5	1.0	0.6	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.4	1.1	
14	0.0	S	0.4	0.4	0.2	0.9	0.5	3.0	0.9	7.1	1.2	0.0	0.0	0.1	0.8	1.1	0.7	0.3	0.2	0.4	0.3	0.9	0.8	0.9	0.9	7.1	
15	0.9	S	0.7	0.5	1.0	1.2	0.7	0.9	1.4	2.3	2.0	1.6	1.3	1.9	1.8	3.3	2.2	0.8	1.4	1.7	1.6	0.6	0.5	0.6	1.3	3.3	
16	0.4	S	0.6	0.5	0.4	0.1	0.1	0.3	0.2	0.3	0.2	0.0	0.6	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	
17	0.4	S	0.0	0.0	0.3	0.7	0.2	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	
18	0.1	S	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.8	3.5	4.6	3.9	4.1	2.5	0.0	0.0	0.0	0.3	0.7	0.0	1.3	1.1	4.9	1.4	4.9	
19	3.5	S	4.8	2.5	0.6	1.6	1.8	0.5	0.1	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
21	0.0	S	0.0	0.0	0.1	0.0	0.0	0.2	0.1	0.4	0.1	1.2	0.2	0.5	0.4	0.0	0.0	0.2	0.2	0.0	0.3	0.3	0.7	1.8	0.3	1.8	
22	0.9	S	0.0	0.1	0.0	0.4	0.0	0.1	0.0	0.2	0.6	0.2	2.4	1.7	0.8	0.2	0.2	0.5	0.0	0.3	0.5	0.5	0.2	0.6	0.5	2.4	
23	1.0	S	0.4	0.7	0.7	0.4	0.5	0.0	0.0	0.0	0.2	0.3	0.1	0.3	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	1.0	
24	0.1	S	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.7	1.1	0.5	0.5	0.3	0.6	0.0	0.2	0.0	0.2	0.1	0.0	0.2	0.0	0.2	0.2	1.1	
25	0.0	S	0.0	0.1	0.3	0.0	0.0	0.1	0.0	0.0	0.4	0.4	0.2	1.5	2.0	1.4	1.0	0.6	0.8	0.1	0.2	0.9	1.5	0.7	0.5	2.0	
26	0.2	S	1.2	1.0	1.0	0.0	0.0	0.0	0.3	0.0	0.7	0.8	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.3	
27	2.5	S	5.9	5.6	2.4	1.0	2.4	2.5	0.8	1.0	0.0	0.0	0.1	0.0	0.2	1.1	0.5	2.6	2.8	0.8	0.6	0.8	0.6	1.5	5.9		
28	0.4	S	0.5	0.5	0.0	0.3	0.5	0.0	0.1	0.6	0.4	0.6	1.1	0.3	0.5	0.1	1.8	3.6	2.2	1.2	1.0	0.7	0.5	0.0	0.7	3.6	
NO.	27	-	27	27	27	27	27	27	27	27	26	26	26	26	26	26	27	27	27	27	27	27	27	27	615	96%	
MEAN	0.7	-	0.8	0.7	0.5	0.5	0.7	0.5	1.1	0.9	1.1	1.1	0.9	0.8	0.6	0.7	0.6	0.8	0.9	0.8	0.6	0.5	0.7	0.7	-	-	
MAX	3.5	-	5.9	5.6	2.4	1.7	2.4	4.8	2.8	7.1	5.7	6.0	5.2	4.1	2.5	3.3	2.2	3.6	3.3	4.5	3.9	4.1	4.6	4.9	-	-	



Number of 1HR Exceedences	0
Number of Non-Zero Readings	455
Maximum 1-HR Average	7.1 PPB
Maximum 24-HR Average	1.7 PPB
Monthly Calibration Standard Deviation	1.079
Operational Time	642 HRS
Operational Uptime	95.5 %
Monthly Average	0.7 PPB

Lagoon PM_{2.5} ($\mu\text{g}/\text{m}^3$) – February 2019

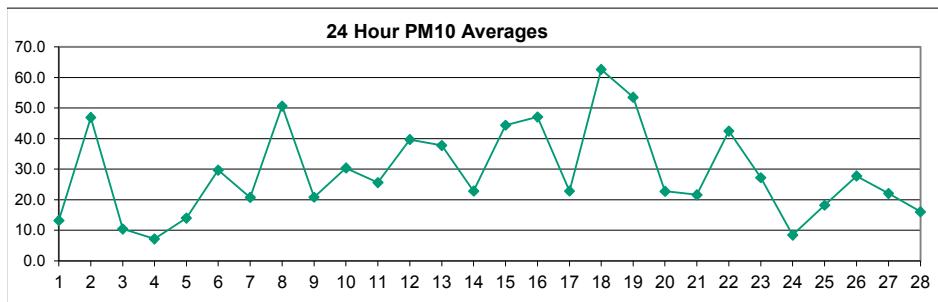
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	8.0	9.4	10.9	11.9	11.2	11.2	6.8	4.4	4.4	7.6	8.5	4.8	7.3	7.3	10.1	9.8	9.4	10.5	13.0	13.7	10.9	11.9	12.3	17.7	9.7	17.7
2	11.9	14.8	13.0	16.2	17.3	17.0	17.7	25.2	19.8	13.8	16.6	14.1	10.9	10.5	9.8	6.2	5.5	10.3	8.7	6.2	6.6	5.8	7.3	10.9	12.3	25.2
3	9.1	6.2	6.2	9.1	7.8	6.9	6.2	6.4	9.8	8.4	9.8	8.4	8.4	7.3	5.8	6.6	7.3	7.6	6.3	9.0	5.8	4.7	5.8	6.2	7.3	9.8
4	8.0	5.8	6.9	8.0	8.7	7.1	5.1	3.3	9.4	6.6	6.9	7.3	5.1	7.3	8.0	6.9	5.8	5.5	5.5	9.8	11.9	10.1	7.6	6.6	7.2	11.9
5	8.7	9.4	10.5	10.9	11.9	9.8	5.5	10.1	10.9	9.8	5.8	6.2	7.3	7.6	16.6	6.9	8.7	8.0	9.1	9.8	8.7	14.1	13.7	15.9	9.8	16.6
6	20.6	31.0	27.4	17.0	22.0	14.1	14.8	16.2	12.7	17.7	15.5	12.3	13.4	14.8	10.2	8.0	8.3	86.0	11.3	76.0	34.3	30.9	10.3	14.8	22.5	86.0
7	11.2	9.1	9.4	9.8	6.6	4.0	8.3	8.7	11.9	10.3	18.4	9.8	8.3	5.8	14.1	8.7	7.3	5.5	5.1	6.5	4.4	3.3	9.1	9.8	8.6	18.4
8	14.4	10.5	10.1	14.8	10.5	8.7	8.3	8.0	11.6	11.9	10.5	6.9	4.0	4.0	4.4	3.3	10.8	11.2	10.1	15.6	9.4	9.4	10.1	10.5	9.6	15.6
9	12.3	15.9	16.3	14.1	11.6	13.7	12.7	11.6	11.9	11.6	11.9	10.9	11.2	9.8	11.6	7.6	9.8	9.1	13.0	14.1	10.9	17.7	14.5	11.6	12.3	17.7
10	14.4	11.5	14.1	17.3	14.1	12.7	11.9	14.5	15.5	13.7	15.2	15.5	15.9	12.7	10.5	9.8	9.1	7.8	10.1	14.8	14.1	15.2	12.3	10.5	13.1	17.3
11	13.0	14.1	14.8	11.6	11.9	11.9	11.6	12.4	11.6	15.9	13.4	11.9	46.0	36.7	16.7	15.5	11.2	12.3	12.7	14.1	15.2	11.9	21.3	18.1	16.1	46.0
12	15.5	17.3	13.8	14.1	15.9	16.2	18.0	19.8	11.6	18.7	15.9	21.3	16.3	15.5	17.3	15.9	14.8	11.2	14.5	14.1	15.9	16.2	13.7	15.2	15.8	21.3
13	14.5	14.1	13.4	14.1	13.0	14.8	13.7	18.0	20.9	20.9	15.2	14.8	18.7	16.9	13.7	12.3	16.6	22.3	15.2	17.0	16.3	26.3	24.2	21.3	17.0	26.3
14	19.1	16.3	13.7	10.2	7.3	5.4	7.1	6.6	11.2	8.7	15.7	10.9	5.5	0.8	1.5	6.5	5.8	3.7	2.8	6.5	8.7	18.0	19.4	21.3	9.7	21.3
15	29.0	33.8	31.0	29.9	28.1	29.9	26.7	23.4	24.9	26.3	22.4	18.8	19.8	15.7	16.2	14.1	16.6	17.7	23.0	30.6	28.5	27.4	25.6	29.2	24.5	33.8
16	35.6	27.4	26.3	26.3	24.9	30.6	31.0	29.0	32.8	27.8	30.9	31.3	25.6	18.8	15.5	10.8	8.0	9.4	9.0	8.3	8.3	6.9	6.2	13.0	20.6	35.6
17	13.4	12.3	13.4	18.0	14.5	14.5	12.7	11.6	13.0	12.3	12.3	11.6	11.9	9.8	10.9	8.4	7.3	6.2	9.1	14.8	12.3	12.7	12.7	12.7	12.0	18.0
18	14.8	17.0	14.1	14.8	10.5	11.6	14.1	13.4	13.0	16.9	20.5	15.6	13.7	11.9	8.7	6.9	4.8	1.9	3.7	8.0	8.7	9.4	9.8	9.8	11.4	20.5
19	11.2	13.4	9.1	11.2	9.4	7.6	9.4	10.5	8.4	6.6	8.0	6.6	4.4	4.8	4.8	5.8	5.1	2.3	0.5	1.9	4.0	6.7	6.6	10.1	7.0	13.4
20	7.6	4.8	5.5	7.6	8.7	5.8	8.4	8.7	7.3	10.8	C	C	C	C	C	8.3	5.5	4.7	3.6	3.7	2.6	3.3	4.0	6.2	10.8	
21	3.3	4.0	4.8	4.0	3.7	8.0	5.5	6.5	5.5	5.9	13.0	8.0	8.3	5.8	4.8	5.1	3.0	1.2	2.6	3.0	3.3	4.4	5.1	5.8	5.2	13.0
22	4.4	7.6	4.7	1.9	3.3	2.9	0.5	5.5	8.3	5.1	4.4	4.0	2.2	5.1	5.8	3.0	1.9	4.0	3.0	1.2	1.9	4.8	5.5	3.5	3.9	8.3
23	4.0	6.8	4.8	5.5	10.9	15.1	11.9	11.6	9.8	6.9	5.8	4.7	3.3	6.2	6.9	8.3	6.2	4.0	5.1	5.5	4.8	3.7	3.6	5.1	6.7	15.1
24	4.9	7.8	8.0	5.5	6.2	7.3	4.4	8.0	8.4	9.1	8.7	6.2	11.9	9.1	9.1	8.3	7.3	5.1	6.5	5.5	7.8	8.0	8.0	7.8	7.4	11.9
25	6.6	13.0	9.5	8.7	8.4	10.5	10.1	12.3	11.9	8.7	8.0	19.8	10.5	7.6	4.4	6.2	8.3	8.0	5.8	9.4	13.4	14.5	18.4	30.2	11.0	30.2
26	18.1	17.7	16.6	19.8	17.7	18.4	14.8	14.1	15.2	16.6	15.5	12.3	14.1	11.6	6.9	2.6	2.3	2.2	0.9	4.7	3.7	5.1	10.1	10.5	11.3	19.8
27	9.1	8.3	7.3	10.1	9.1	8.0	6.9	7.3	9.1	7.6	7.1	6.8	5.8	4.1	2.2	4.4	5.1	2.6	2.9	4.8	5.1	6.2	4.8	5.5	6.3	10.1
28	5.5	4.7	6.5	5.8	5.5	6.9	7.3	9.1	7.8	8.0	8.0	3.7	11.6	8.5	4.8	5.5	7.3	6.9	6.5	3.7	2.6	3.0	2.6	3.7	6.1	11.6
NO.	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	27	28	28	28	28	28	28	28	666	100%
MEAN	12.4	13.0	12.2	12.4	11.8	11.8	11.1	12.0	12.4	12.3	12.7	11.3	11.9	10.2	9.3	7.9	7.9	10.3	7.9	11.9	10.0	11.1	10.8	12.2		
MAX	35.6	33.8	31.0	29.9	28.1	30.6	31.0	29.0	32.8	27.8	30.9	31.3	46.0	36.7	17.3	15.9	16.6	86.0	23.0	76.0	34.3	30.9	25.6	30.2		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	666
Maximum 1-HR Average	86.0 UG/M3
Maximum 24-HR Average	24.5 UG/M3
Monthly Calibration Standard Deviation	7.507
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	11.1 UG/M3

Lagoon PM₁₀ ($\mu\text{g}/\text{m}^3$) – February 2019

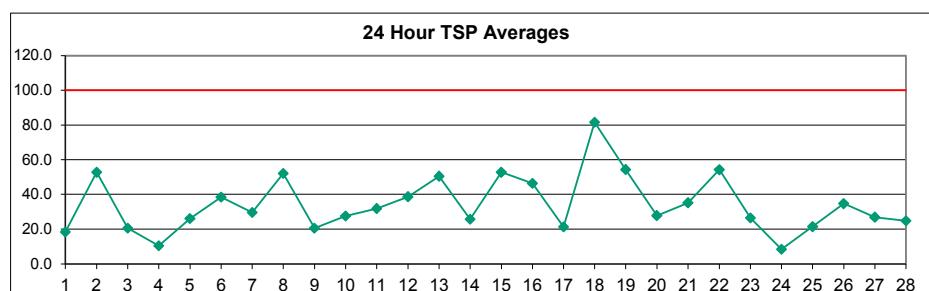
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	4.7	10.1	10.7	11.4	20.2	2.1	4.0	4.7	8.7	10.7	9.4	9.4	10.7	12.7	16.2	18.9	17.5	14.8	21.6	10.1	17.1	22.9	22.3	27.0	13.2	27.0	
2	29.7	34.5	48.0	52.8	58.2	94.8	61.7	35.2	40.6	35.8	140.0	39.4	55.4	56.1	33.2	37.8	89.9	49.5	24.4	43.1	25.7	8.8	18.9	14.2	47.0	140.0	
3	13.5	7.4	18.2	10.8	7.4	6.7	7.4	5.3	6.0	9.4	11.9	10.5	8.7	10.5	11.4	12.1	17.3	15.5	12.8	12.8	9.4	8.7	11.4	6.7	10.5	18.2	
4	4.2	10.1	12.1	7.4	2.6	4.0	6.7	3.3	6.7	7.4	1.3	5.3	12.1	19.5	12.1	24.3	12.2	4.0	0.0	0.0	0.0	2.6	1.3	14.8	7.2	24.3	
5	11.4	16.2	12.8	10.1	6.0	6.0	8.7	8.7	7.4	9.4	9.4	12.1	30.3	52.0	20.2	12.8	8.1	8.7	12.8	10.1	22.9	19.6	11.9	14.0	52.0	84.3	
6	20.2	30.4	30.4	18.9	24.3	34.4	22.3	13.5	18.9	20.9	22.3	31.7	40.5	34.5	31.1	27.1	15.6	84.3	32.7	82.4	27.9	21.0	9.5	19.5	29.8	84.3	
7	11.5	12.8	14.1	14.8	16.2	6.0	7.4	9.4	31.7	30.4	56.7	25.8	42.5	27.1	32.4	29.8	21.0	12.2	21.5	8.8	8.7	10.7	25.6	21.6	20.8	56.7	
8	31.7	21.6	22.3	76.9	48.8	119.5	87.3	78.6	62.3	48.3	35.9	27.7	42.5	78.3	33.3	42.3	35.9	67.8	77.1	41.5	36.5	41.9	32.5	24.4	50.6	119.5	
9	38.5	29.1	5.5	28.3	19.6	25.0	30.4	38.5	34.5	41.9	24.4	24.9	20.9	29.7	28.4	14.9	20.1	2.0	0.0	0.0	4.6	8.0	14.8	17.5	20.9	41.9	
10	16.2	23.6	17.6	34.4	21.7	12.2	14.8	7.4	16.1	31.0	42.5	50.0	31.9	31.1	37.1	50.0	21.4	3.6	2.0	2.6	15.4	101.1	78.0	69.1	30.4	101.1	
11	48.8	21.5	16.9	8.8	18.8	29.0	19.0	13.5	16.2	23.6	31.0	31.1	76.2	69.1	32.7	19.0	27.0	12.2	21.5	8.8	7.4	5.3	27.0	30.7	25.6	76.2	
12	18.3	29.0	25.0	23.6	29.7	27.0	43.2	35.9	25.0	86.9	31.5	60.7	64.3	40.1	37.2	55.3	36.6	37.2	33.1	46.5	38.7	39.2	46.6	43.2	39.7	86.9	
13	25.8	23.6	20.9	12.2	23.5	6.1	8.0	12.1	22.9	74.1	50.9	45.3	57.9	42.7	27.8	42.5	52.0	48.1	48.7	66.2	63.6	50.2	46.7	34.6	37.8	74.1	
14	26.4	30.4	31.7	22.3	13.5	12.8	10.8	9.4	17.5	31.6	77.5	61.7	19.9	9.5	26.9	12.0	11.4	9.4	10.4	10.1	10.7	29.5	23.0	30.3	22.9	77.5	
15	36.5	31.2	31.1	43.2	64.1	55.6	56.2	49.4	27.2	28.4	48.5	38.6	28.4	36.4	21.0	38.4	71.4	76.4	65.7	64.3	41.5	42.6	29.8	39.8	44.4	76.4	
16	57.4	40.0	41.2	34.5	39.2	31.8	44.5	64.8	73.0	57.0	61.5	58.9	43.4	55.4	45.4	62.8	37.4	34.5	29.8	40.5	63.4	36.1	36.5	42.5	47.1	73.0	
17	32.5	41.2	33.9	25.1	29.7	35.1	22.4	26.3	25.7	20.3	20.2	22.9	24.3	19.6	24.9	25.0	30.4	14.3	12.1	9.4	9.4	10.1	19.5	15.5	22.9	41.2	
18	17.5	21.6	18.2	7.7	16.1	12.2	18.1	14.9	33.6	54.6	80.9	84.6	58.5	74.3	59.7	113.3	32.6	21.0	29.0	96.8	102.2	137.1	167.0	232.4	62.7	232.4	
19	171.3	129.7	55.5	84.6	36.3	46.7	44.7	36.4	59.3	92.4	33.7	84.7	39.0	60.7	54.9	39.4	37.2	27.8	16.3	9.5	26.2	37.1	34.5	28.4	53.6	171.3	
20	6.9	6.7	6.0	20.1	14.9	16.8	16.9	28.9	37.8	58.0	C	C	C	C	C	C	33.1	30.3	12.2	31.6	0.0	17.5	45.9	26.3	22.8	58.0	
21	6.7	20.2	8.7	8.7	7.4	5.3	4.0	9.2	11.9	10.8	33.2	54.7	41.8	10.8	15.5	12.8	10.1	6.0	1.4	33.1	26.5	52.1	65.6	21.7	65.6		
22	99.6	112.2	66.0	149.4	54.1	44.7	56.9	67.6	47.3	44.0	53.4	27.0	25.1	70.2	20.9	26.2	0.0	0.0	0.0	27.0	21.5	4.6	2.6	42.5	149.4		
23	4.7	6.0	18.8	50.9	114.9	52.1	49.4	47.4	36.5	37.1	19.6	23.7	22.2	8.1	14.8	6.7	8.1	18.2	25.0	7.4	16.9	32.4	18.2	16.1	27.3	114.9	
24	2.6	6.0	8.7	6.7	3.3	0.0	0.0	0.0	16.9	26.3	29.0	23.6	20.2	14.1	11.4	8.7	6.7	1.9	1.3	6.0	3.6	1.3	4.7	8.5	29.0		
25	10.1	14.8	20.2	19.6	16.2	18.9	12.1	17.5	6.0	20.2	24.3	39.9	16.2	10.8	12.0	12.1	10.5	9.4	5.3	6.7	14.8	23.7	36.5	60.2	18.3	60.2	
26	35.2	40.6	54.2	67.7	56.8	40.5	18.8	21.6	21.6	29.9	103.5	35.8	28.3	18.9	20.9	27.1	8.7	6.7	6.0	0.0	0.0	3.6	9.5	12.1	27.8	103.5	
27	23.6	16.9	17.5	9.4	21.6	17.5	19.6	24.3	29.1	36.6	104.2	30.4	12.8	13.5	15.5	29.7	31.1	13.0	9.4	0.0	0.0	6.0	20.9	28.4	22.1	104.2	
28	27.0	14.1	29.7	17.5	21.6	18.9	29.0	22.3	10.5	14.8	19.6	18.7	31.1	20.9	13.5	10.7	3.3	6.7	7.4	0.0	0.0	3.3	28.4	17.5	16.1	31.1	
NO.	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	28	28	28	28	28	28	28	28	666	100%	
MEAN	29.7	28.6	24.9	31.3	28.8	27.9	25.9	25.2	26.2	35.1	43.5	36.4	33.0	33.7	27.6	30.4	25.5	22.8	19.1	23.1	21.8	28.6	32.0	34.1			
MAX	171.3	129.7	66.0	149.4	114.9	119.5	87.3	78.6	73.0	92.4	140.0	84.7	76.2	78.3	59.7	113.3	89.9	84.3	77.1	96.8	102.2	137.1	167.0	232.4			



Number of Non-Zero Readings	646
Maximum 1-HR Average	232.4 UG/M3
Maximum 24-HR Average	62.7 UG/M3
Monthly Calibration Standard Deviation	25.7
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	28.9 UG/M3

Lagoon TSP ($\mu\text{g}/\text{m}^3$) – February 2019

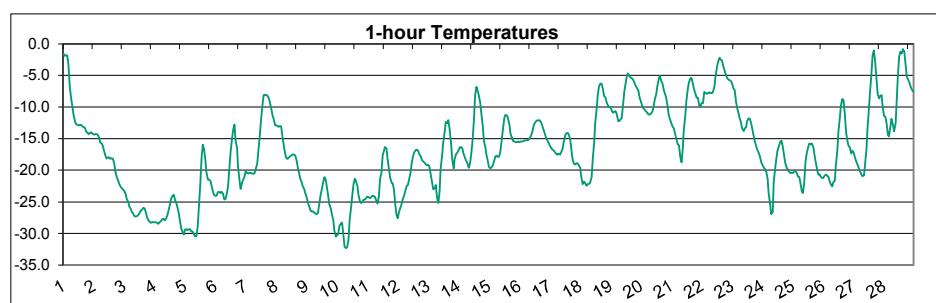
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	11.3	15.4	12.8	15.8	14.0	0.0	0.0	11.3	15.4	23.7	23.7	20.9	23.7	18.2	29.6	18.2	26.5	19.6	37.5	12.6	14.0	15.7	26.5	33.4	18.3	37.5
2	27.9	45.8	44.4	47.2	62.5	83.1	34.8	45.9	56.9	51.5	106.6	53.1	73.5	78.9	52.7	52.8	82.5	54.1	37.0	51.3	44.4	25.1	33.4	22.3	52.8	106.6
3	23.7	14.1	30.6	29.0	22.3	29.3	25.1	11.3	23.7	18.2	23.7	23.7	14.0	12.7	18.2	12.7	22.4	36.1	29.2	33.4	12.6	9.9	8.5	9.9	20.6	36.1
4	6.4	11.3	8.5	4.4	1.6	3.0	4.4	8.5	7.1	4.4	4.4	12.6	9.9	5.8	16.8	14.0	18.2	18.2	14.0	16.8	26.3	16.8	3.0	15.4	10.5	26.3
5	25.1	12.6	11.3	5.7	4.4	16.8	9.1	11.3	19.6	34.8	38.9	9.9	30.6	23.8	76.2	36.1	27.9	23.7	38.9	36.2	29.3	38.9	37.5	29.2	26.2	76.2
6	26.4	40.3	37.5	19.7	29.0	38.9	22.3	23.7	22.4	22.3	16.8	18.2	29.3	43.1	84.5	52.7	27.9	98.3	65.2	84.5	45.8	36.1	19.6	18.2	38.4	98.3
7	8.5	25.1	15.4	23.7	23.7	18.2	15.4	14.1	44.6	41.7	87.3	19.6	40.3	23.7	41.7	48.6	27.2	25.1	33.4	12.7	20.2	22.3	43.1	36.1	29.6	87.3
8	37.5	30.6	26.5	87.3	39.0	117.7	108.0	62.4	58.3	69.3	27.9	25.1	33.4	63.9	26.5	36.9	32.0	73.5	94.2	50.0	44.1	43.1	33.4	30.6	52.1	117.7
9	36.2	30.6	14.0	23.7	16.8	22.3	32.0	32.0	30.6	34.8	27.9	16.8	11.3	11.3	12.7	18.2	15.3	19.6	19.6	9.9	16.8	14.0	18.2	20.7	36.2	
10	29.2	18.2	4.4	21.6	19.6	15.4	29.2	15.4	21.0	28.4	25.1	14.0	19.6	30.6	32.0	32.0	23.7	14.0	21.0	21.0	29.2	85.9	59.7	51.4	27.6	85.9
11	43.1	22.3	14.0	7.1	12.1	16.8	20.9	18.2	19.6	25.1	36.4	22.3	66.6	84.5	47.2	45.8	38.9	27.9	41.7	22.3	23.7	14.0	41.7	52.7	31.9	84.5
12	21.0	37.5	19.6	14.0	16.8	22.3	43.1	37.5	23.7	88.7	30.7	73.5	61.0	29.3	34.8	67.9	41.7	43.1	32.0	36.1	38.9	40.3	37.5	36.9	38.7	88.7
13	25.1	23.7	16.8	9.9	18.2	15.4	22.4	21.0	38.9	110.7	59.7	23.7	62.4	41.7	27.9	52.7	65.2	73.5	80.4	137.0	131.5	78.4	45.9	29.3	50.5	137.0
14	22.3	40.3	37.5	11.3	10.0	19.6	0.2	12.6	18.2	32.0	98.3	63.8	11.3	5.7	23.7	25.1	12.7	14.0	26.5	9.9	19.5	36.1	25.1	40.3	25.7	98.3
15	39.2	47.2	40.3	32.0	58.2	47.2	50.0	55.5	26.5	33.4	77.5	51.4	33.4	47.2	34.8	52.7	107.9	102.5	85.9	66.7	47.2	40.3	36.2	52.7	52.7	107.9
16	72.5	47.2	51.3	35.0	26.5	32.0	48.6	59.6	70.7	61.1	72.0	61.0	48.6	59.6	51.4	48.6	37.5	36.2	34.8	33.4	43.0	18.2	29.2	34.8	46.4	72.5
17	22.3	36.1	29.3	26.5	18.2	34.7	29.5	12.6	12.6	22.3	25.1	26.5	12.8	16.8	33.3	27.9	41.7	8.6	14.0	10.0	19.5	14.0	8.5	10.0	21.4	41.7
18	16.8	34.9	15.5	14.0	15.5	8.5	27.8	15.5	50.3	74.8	102.4	104.0	59.8	85.8	66.6	143.1	22.6	29.2	26.5	161.7	157.8	184.0	211.6	327.6	81.5	327.6
19	246.2	178.7	65.5	85.0	47.3	48.6	43.1	37.1	58.2	91.4	34.9	47.2	25.2	22.5	18.1	32.0	34.8	8.6	7.1	7.1	34.7	52.7	47.2	32.1	54.4	246.2
20	9.9	8.5	8.5	18.2	8.5	18.1	16.8	33.3	49.9	53.1	C	C	C	C	C	C	26.4	18.1	18.3	34.7	18.2	25.3	74.8	60.8	27.9	74.8
21	16.8	22.3	19.5	5.8	25.1	19.5	9.9	14.0	14.0	11.4	50.0	56.9	58.2	29.2	19.5	12.6	8.5	5.8	11.5	69.3	52.9	103.9	106.5	101.4	35.2	106.5
22	167.6	181.0	108.9	139.5	53.2	45.9	61.0	62.3	36.2	51.4	56.3	25.1	17.2	111.9	37.5	19.5	7.1	4.4	4.4	5.9	59.5	29.6	8.5	54.3	181.0	
23	9.9	14.0	9.9	30.9	106.5	58.2	45.8	38.9	37.5	37.1	18.2	21.0	25.0	7.5	14.0	7.2	22.4	30.6	33.3	14.0	12.7	18.2	12.6	9.9	26.5	106.5
24	7.1	14.0	8.5	8.5	0.2	4.4	7.1	8.5	5.8	16.8	22.3	4.4	4.4	5.7	3.0	3.0	11.3	14.0	8.5	9.9	8.5	7.1	12.6	8.5	8.5	22.3
25	15.4	16.8	18.2	22.3	18.2	27.9	19.5	9.9	18.2	25.1	25.1	34.7	15.4	5.7	9.9	11.3	7.1	9.9	11.3	11.3	16.9	37.6	45.9	81.7	21.5	81.7
26	39.1	52.8	66.6	78.3	67.9	54.0	16.8	26.5	29.3	39.2	150.6	29.5	22.3	19.6	16.8	14.0	9.9	8.5	7.4	4.4	16.8	19.6	16.8	26.5	34.7	150.6
27	29.2	27.9	22.3	7.2	27.9	27.8	22.3	25.1	37.0	39.1	135.5	33.3	12.6	12.6	11.3	32.0	30.6	8.5	8.5	8.5	7.1	7.2	32.1	40.3	26.9	135.5
28	52.7	39.0	61.0	30.7	51.3	34.7	23.7	33.4	19.5	12.7	15.4	14.1	34.8	34.7	8.5	15.4	8.5	25.1	12.6	5.7	5.8	14.0	15.4	26.5	24.8	61.0
NO.	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	28	28	28	28	28	28	28	28	666	100%
MEAN	38.9	38.9	29.2	30.5	29.1	31.4	28.2	27.1	30.9	41.2	51.6	33.6	31.7	34.5	31.4	34.4	30.0	30.2	30.5	35.2	35.4	37.5	38.8	44.5		
MAX	246.2	181.0	108.9	139.5	106.5	117.7	108.0	62.4	70.7	110.7	150.6	104.0	73.5	84.5	143.1	107.9	102.5	94.2	161.7	157.8	184.0	211.6	327.6			



Number of 24HR Exceedences	0
Number of Non-Zero Readings	664
Maximum 1-HR Average	327.6 $\mu\text{g}/\text{m}^3$
Maximum 24-HR Average	81.5 $\mu\text{g}/\text{m}^3$
Monthly Calibration Standard Deviation	31.9
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	34.3 $\mu\text{g}/\text{m}^3$

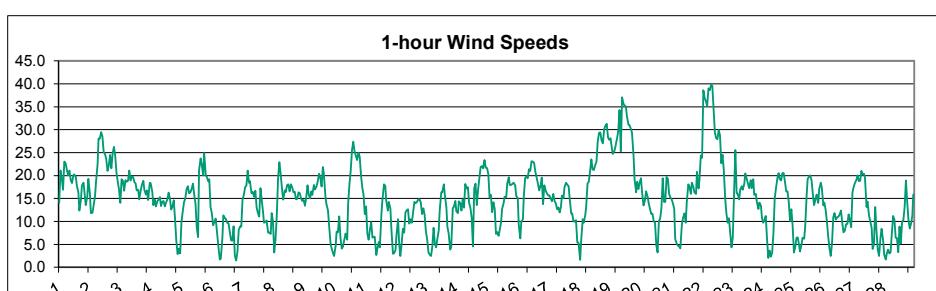
Lagoon Temperature (°C) – February 2019

Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-1.6	-1.9	-1.8	-1.9	-3.3	-6.7	-8.4	-9.9	-11.3	-12.4	-12.8	-12.8	-12.9	-12.8	-12.8	-13.1	-13.2	-13.4	-13.8	-14.1	-14.3	-14.1	-14.0	-14.2	-10.3	-1.6	
2	-14.4	-14.3	-14.3	-14.3	-14.8	-15.6	-15.7	-16.1	-16.9	-17.6	-18.1	-18.0	-18.0	-18.2	-18.1	-18.2	-18.9	-20.3	-21.1	-21.6	-22.2	-22.6	-22.8	-23.1	-18.1	-14.3	
3	-23.2	-23.8	-24.5	-25.0	-25.7	-26.2	-26.5	-26.9	-27.2	-27.3	-27.2	-27.1	-26.8	-26.4	-26.2	-25.9	-26.1	-26.6	-27.5	-27.9	-28.1	-28.3	-28.2	-28.2	-26.5	-23.2	
4	-28.2	-28.2	-28.4	-28.5	-28.2	-28.1	-27.8	-27.7	-27.9	-27.6	-27.1	-26.3	-25.5	-24.5	-24.0	-23.9	-24.7	-25.2	-25.9	-26.8	-27.9	-29.3	-29.7	-30.2	-27.1	-23.9	
5	-29.4	-29.3	-29.5	-29.4	-29.3	-29.7	-29.7	-30.2	-30.5	-30.4	-28.9	-25.6	-22.2	-18.0	-16.0	-16.7	-18.4	-20.3	-21.5	-21.5	-21.7	-22.4	-23.5	-23.9	-24.9	-16.0	
6	-24.0	-24.0	-23.4	-23.4	-23.6	-23.4	-23.7	-24.6	-24.5	-23.7	-22.4	-19.6	-17.0	-15.1	-13.5	-12.8	-15.2	-16.5	-19.5	-21.8	-22.9	-21.9	-21.5	-21.0	-20.8	-12.8	
7	-20.1	-20.5	-20.5	-20.4	-20.5	-20.6	-20.4	-19.7	-18.9	-18.7	-14.6	-12.0	-9.8	-8.1	-8.1	-8.1	-8.1	-8.6	-9.1	-10.3	-11.4	-11.8	-12.9	-14.7	-8.1		
8	-12.9	-13.0	-13.1	-13.0	-13.2	-14.7	-16.1	-17.3	-18.1	-18.2	-18.0	-17.8	-17.6	-17.5	-17.5	-17.6	-18.4	-19.6	-20.5	-21.2	-22.0	-22.5	-23.0	-23.6	-17.8	-12.9	
9	-24.3	-25.1	-25.7	-26.3	-26.5	-26.5	-26.7	-26.8	-27.0	-26.7	-25.2	-23.9	-22.9	-21.9	-21.1	-21.5	-22.8	-24.1	-25.3	-26.1	-26.8	-28.0	-29.6	-30.5	-25.5	-21.1	
10	-30.3	-30.1	-28.8	-28.5	-28.3	-30.2	-32.1	-32.3	-32.2	-31.0	-27.7	-26.0	-24.0	-22.2	-21.4	-21.7	-22.4	-23.8	-24.9	-25.2	-25.0	-24.7	-24.6	-24.4	-26.7	-21.4	
11	-24.2	-24.3	-24.4	-24.3	-24.0	-24.1	-24.2	-24.8	-25.3	-24.2	-21.3	-20.5	-17.6	-16.9	-16.3	-16.5	-18.1	-19.9	-21.1	-22.0	-22.0	-22.9	-25.2	-27.0	-22.1	-16.3	
12	-27.6	-26.6	-26.0	-25.4	-24.5	-24.0	-23.2	-22.5	-22.3	-21.4	-20.4	-18.8	-17.8	-17.3	-16.9	-16.7	-16.9	-17.4	-17.8	-18.3	-18.6	-18.8	-19.0	-19.2	-20.7	-16.7	
13	-19.2	-19.4	-20.6	-21.8	-23.0	-22.9	-22.3	-24.3	-25.2	-23.2	-19.8	-17.5	-15.7	-13.8	-12.4	-12.5	-12.1	-13.4	-15.9	-18.1	-19.8	-18.2	-17.4	-17.2	-18.6	-12.1	
14	-16.9	-16.4	-16.3	-16.6	-17.4	-18.0	-18.5	-19.0	-19.6	-18.9	-17.3	-15.3	-12.1	-8.1	-6.8	-7.5	-8.1	-9.4	-10.8	-13.1	-15.2	-16.4	-17.5	-18.4	-14.7	-6.8	
15	-19.4	-19.7	-19.6	-19.2	-18.6	-17.8	-17.7	-17.9	-17.9	-16.9	-15.2	-13.4	-11.8	-11.3	-11.3	-11.7	-12.8	-14.2	-14.9	-15.4	-15.5	-15.6	-15.5	-15.8	-11.3		
16	-15.6	-15.5	-15.5	-15.4	-15.3	-15.3	-15.3	-15.2	-15.0	-14.6	-14.0	-13.1	-12.7	-12.3	-12.1	-12.1	-12.0	-12.4	-12.8	-13.5	-14.1	-14.7	-15.2	-15.6	-14.1	-12.0	
17	-16.1	-16.4	-16.7	-16.9	-17.1	-17.4	-17.6	-17.4	-17.5	-17.1	-16.6	-15.7	-14.6	-14.2	-14.1	-14.3	-15.0	-16.4	-18.1	-18.9	-19.1	-18.9	-18.9	-19.2	-16.8	-14.1	
18	-19.6	-21.2	-22.2	-21.8	-22.1	-22.5	-22.2	-22.1	-22.0	-21.1	-18.5	-15.6	-12.6	-10.1	-8.1	-6.8	-6.3	-6.3	-7.1	-8.3	-8.5	-9.3	-9.8	-10.0	-14.7	-6.3	
19	-10.0	-10.6	-10.9	-10.7	-10.6	-11.2	-12.2	-12.2	-11.9	-11.7	-9.2	-7.5	-6.1	-5.1	-4.7	-5.2	-5.4	-5.5	-5.7	-6.3	-6.7	-7.0	-7.4	-8.5	-8.4	-4.7	
20	-9.1	-9.8	-10.2	-10.5	-10.7	-10.9	-11.2	-11.2	-11.0	-10.7	-9.9	-8.9	-7.9	-7.6	-6.8	-5.5	-5.1	-5.9	-6.2	-7.4	-7.9	-8.5	-9.8	-11.3	-12.0	-9.1	-5.1
21	-12.6	-13.1	-13.4	-14.3	-15.1	-15.9	-16.1	-17.9	-18.7	-16.5	-13.6	-11.2	-9.0	-7.0	-6.1	-5.4	-5.4	-6.3	-7.2	-7.8	-8.6	-8.5	-9.7	-9.9	-11.2	-5.4	
22	-9.3	-9.4	-7.6	-7.8	-7.9	-7.8	-7.7	-7.8	-7.8	-7.6	-6.7	-5.2	-3.5	-2.9	-2.2	-2.5	-2.6	-3.5	-4.1	-4.9	-5.3	-5.7	-5.7	-5.9	-5.9	-2.2	
23	-6.3	-7.1	-7.3	-9.1	-10.2	-10.9	-11.7	-12.5	-13.4	-13.8	-13.5	-13.1	-12.2	-11.8	-11.8	-12.5	-13.4	-14.5	-15.5	-16.1	-16.8	-17.3	-17.8	-18.8	-12.8	-6.3	
24	-19.1	-19.6	-19.9	-20.3	-21.3	-23.6	-25.5	-27.0	-26.6	-21.9	-19.5	-18.3	-16.9	-16.2	-15.6	-15.3	-16.2	-17.6	-18.8	-19.6	-19.9	-20.3	-20.4	-20.0	-15.3		
25	-20.4	-20.2	-20.1	-20.4	-21.0	-21.1	-21.9	-23.3	-23.6	-22.2	-18.8	-17.4	-16.5	-15.8	-15.9	-15.8	-16.4	-17.4	-18.7	-19.7	-20.7	-20.6	-21.0	-21.2	-19.6	-15.8	
26	-21.3	-20.9	-20.7	-20.8	-21.0	-21.8	-22.3	-22.5	-21.9	-21.6	-19.4	-16.8	-14.0	-11.5	-9.8	-8.7	-8.9	-10.9	-13.9	-15.2	-16.1	-16.4	-17.3	-16.9	-17.1	-8.7	
27	-17.2	-18.0	-18.6	-19.1	-19.7	-20.1	-20.7	-20.9	-20.9	-19.4	-16.6	-13.5	-9.9	-7.6	-5.0	-5.0	-1.8	-1.0	-2.8	-5.5	-8.0	-8.6	-8.3	-8.2	-10.3	-12.6	-1.0
28	-11.4	-11.6	-12.7	-14.4	-14.7	-12.9	-11.9	-12.9	-13.9	-12.6	-9.3	-5.0	-2.1	-1.3	-1.6	-0.8	-1.3	-3.2	-5.2	-5.7	-6.1	-6.8	-7.3	-7.6	-8.0	-0.8	-0.8



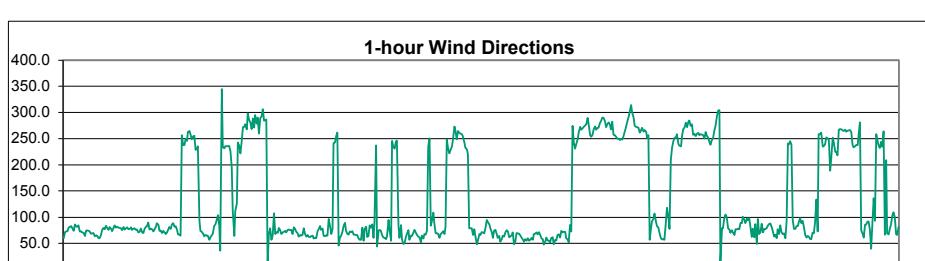
Lagoon Wind Speed (km/hr) – February 2019

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	14.1	21.1	19.4	17.0	23.0	22.7	21.2	20.0	21.2	19.0	18.4	20.0	20.3	19.7	17.9	16.3	12.4	14.7	17.8	18.5	15.7	13.6	15.6	19.3	18.3	23.0
2	16.0	11.8	11.9	13.2	15.5	18.6	22.5	28.1	28.1	29.5	28.6	25.1	24.7	23.6	21.0	22.2	24.5	21.6	24.8	26.3	24.3	20.6	18.6	16.9	21.6	29.5
3	14.0	19.2	18.9	16.7	19.0	18.6	18.9	21.2	18.9	19.8	19.7	18.6	18.2	16.7	16.9	14.8	16.8	17.9	18.8	16.9	15.9	16.7	14.6	18.4	17.8	21.2
4	18.3	16.4	13.6	14.8	13.3	14.5	14.7	15.3	13.4	14.3	14.5	13.3	14.1	14.8	16.3	15.1	12.6	13.3	14.6	10.6	5.8	2.9	4.1	3.0	12.6	18.3
5	9.9	12.1	14.2	15.0	17.0	17.7	16.1	16.3	17.1	18.3	15.8	13.8	8.6	6.6	21.1	23.7	22.7	20.1	24.9	20.1	19.8	18.8	19.2	13.1	16.7	24.9
6	11.8	9.2	9.9	10.7	7.1	4.9	1.7	1.9	6.4	11.3	10.9	10.5	9.7	9.6	7.9	5.8	5.8	8.9	2.5	1.5	3.4	8.1	8.9	8.9	7.4	11.8
7	14.8	15.8	17.5	17.8	21.1	18.4	18.8	16.1	16.5	15.4	16.7	13.0	11.8	11.0	17.2	15.2	12.1	9.7	9.9	10.2	7.6	7.6	7.3	11.8	13.9	21.1
8	10.0	3.2	6.1	11.4	19.4	22.9	20.4	16.6	14.7	16.8	16.4	17.9	18.1	16.6	18.1	17.5	16.4	16.5	14.9	14.9	16.4	16.2	15.0	14.5	15.5	22.9
9	14.7	13.4	15.2	17.9	15.8	15.0	16.6	15.8	18.0	17.0	17.6	18.7	20.4	19.6	17.6	21.9	20.4	15.5	13.8	12.4	9.6	5.2	4.2	3.0	15.0	21.9
10	2.4	4.8	7.8	7.7	11.1	6.4	4.1	4.5	6.0	7.4	6.0	13.9	18.1	21.1	25.6	27.4	25.3	24.3	23.4	25.0	24.2	20.1	17.4	15.9	14.6	27.4
11	11.6	13.3	7.3	6.0	8.2	9.9	6.5	6.7	6.7	2.7	4.0	5.5	4.4	11.7	14.6	18.1	17.7	14.6	12.4	14.2	12.8	8.5	3.0	3.0	9.3	18.1
12	3.8	7.1	10.5	5.7	2.5	5.0	8.4	7.6	12.0	12.5	12.7	9.6	10.5	9.8	12.0	14.2	14.0	14.2	14.8	14.8	14.2	11.6	12.8	11.4	10.5	14.8
13	7.8	6.0	3.3	2.8	2.5	4.6	8.6	5.0	4.4	5.9	7.9	12.3	16.3	16.4	18.1	15.9	13.1	8.9	7.4	3.9	4.4	13.0	13.1	14.5	9.0	18.1
14	12.3	11.8	14.4	13.9	12.4	14.8	13.0	18.2	17.2	17.5	14.1	13.0	10.8	4.5	17.2	18.3	13.6	16.9	19.4	21.9	22.1	21.6	23.4	21.7	16.0	23.4
15	21.7	20.3	15.1	15.8	12.1	14.2	12.7	7.3	7.7	6.9	7.9	10.0	12.7	14.1	15.4	15.3	18.2	19.7	18.0	18.0	18.2	18.5	17.9	15.6	14.7	21.7
16	15.1	9.4	6.3	9.9	10.5	15.6	19.4	19.8	19.5	21.4	21.0	23.1	23.0	22.8	20.8	19.6	18.2	16.8	17.7	19.5	13.8	17.8	16.8	16.2	17.3	23.1
17	15.7	15.7	15.0	14.4	16.0	14.5	13.9	12.7	13.1	12.0	13.2	15.7	15.1	17.5	18.4	18.0	17.7	15.2	11.8	11.7	10.1	10.0	10.3	5.5	13.9	18.4
18	5.4	1.6	5.7	10.5	9.7	11.4	13.4	18.2	18.7	21.0	23.5	21.3	21.2	22.3	23.1	27.5	29.3	29.4	27.6	27.0	30.1	30.9	31.3	28.3	20.3	31.3
19	27.8	28.2	26.0	24.8	25.4	26.3	28.0	29.7	34.3	25.3	37.1	35.8	35.3	35.1	33.0	31.1	31.0	30.1	29.3	24.1	19.2	16.4	18.7	17.1	27.9	37.1
20	18.5	19.4	16.0	13.5	14.5	16.5	15.4	14.0	12.8	11.7	11.7	10.0	9.7	4.8	3.2	10.1	10.6	12.9	19.5	14.3	14.3	19.7	19.3	16.0	13.7	19.7
21	15.3	14.8	13.9	12.7	6.2	5.1	4.8	4.5	4.1	9.4	10.9	11.8	9.7	14.1	18.1	17.7	16.0	18.5	17.5	16.3	16.0	20.8	17.2	19.2	13.1	20.8
22	24.3	23.9	38.6	37.0	36.2	35.2	39.0	38.6	39.8	39.6	34.5	29.4	28.1	27.9	30.0	28.8	22.7	24.6	21.1	15.2	11.7	9.7	10.7	7.5	27.3	39.8
23	4.4	6.6	16.3	25.6	16.1	16.1	14.8	16.9	17.7	16.9	18.3	20.5	19.1	18.1	17.3	19.0	17.3	19.2	15.8	16.0	14.3	12.8	14.1	13.4	16.1	25.6
24	10.9	9.7	10.3	11.2	6.1	2.0	3.7	2.3	3.2	7.5	15.0	17.2	19.3	20.6	19.2	18.9	20.5	18.7	16.6	16.6	14.2	10.1	12.7	12.8	20.6	
25	9.1	3.2	4.4	6.4	6.5	4.9	3.5	5.2	6.5	6.2	8.6	16.0	19.3	19.9	20.1	19.0	16.1	13.6	14.9	15.9	14.1	17.0	18.5	17.4	11.9	20.1
26	13.5	14.2	12.6	10.1	6.8	4.2	2.4	5.2	10.9	11.8	10.4	10.9	11.0	11.6	12.4	9.8	7.6	8.0	9.4	9.5	11.5	10.3	8.7	16.4	10.0	16.4
27	17.6	18.5	19.0	20.1	18.8	18.9	21.0	20.3	20.4	19.6	13.1	14.4	11.1	10.3	8.6	4.0	5.0	13.2	8.0	3.9	2.5	6.8	8.4	5.7	12.9	21.0
28	2.8	1.7	2.9	3.9	3.1	3.2	7.4	11.2	10.4	6.5	6.4	3.3	8.9	5.2	9.9	10.3	13.1	18.9	14.3	10.3	8.5	9.5	11.3	15.9	8.3	18.9
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	13.0	12.6	13.3	13.8	13.4	13.7	14.0	14.3	15.0	15.1	15.5	15.9	16.1	15.9	17.5	17.7	16.8	17.1	16.5	15.3	14.2	14.2	14.0	13.6		
MAX	27.8	28.2	38.6	37.0	36.2	35.2	39.0	38.6	39.8	39.6	37.1	35.8	35.3	35.1	33.0	31.1	31.0	30.1	29.3	27.0	30.1	30.9	31.3	28.3		



Lagoon Wind Direction (°) – February 2019

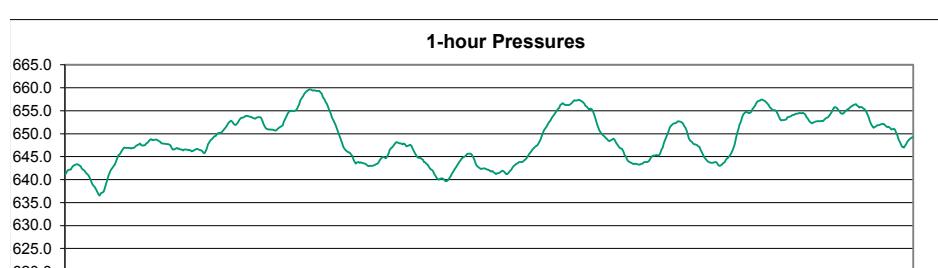
Day	HOUR																								MEAN	MAX		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	60.2	71.6	72.9	73.3	79.9	81.4	83.1	78.5	74.5	86.3	81.8	82.0	84.4	72.4	72.5	70.6	70.2	64.3	74.8	74.9	73.8	72.4	68.4	69.1	75.3	86.3		
2	70.0	63.8	65.4	64.1	60.0	59.9	65.6	75.8	79.7	77.2	83.4	79.2	75.7	81.3	77.8	73.4	79.3	84.4	79.9	82.3	79.8	79.6	78.6	75.1	75.9	84.4		
3	81.2	76.4	78.3	80.6	77.4	78.0	80.4	76.2	78.2	78.9	75.6	76.4	70.6	72.0	78.1	71.1	69.8	77.3	82.3	82.6	89.5	76.3	78.2	77.0	77.6	89.5		
4	72.7	76.2	81.6	88.8	85.0	73.8	74.6	70.0	73.6	70.9	67.9	70.3	75.8	81.4	77.7	86.3	88.9	81.8	82.7	75.9	67.4	66.9	64.4	256.6	77.2	256.6		
5	237.5	238.2	249.2	245.8	263.1	264.4	258.3	248.5	254.4	255.7	228.7	229.9	235.5	93.8	74.2	71.9	69.1	63.8	65.7	65.1	64.8	57.2	60.8	66.0	54.2	264.4	188.9	344.9
6	69.6	82.9	86.2	94.6	103.9	82.9	36.1	344.9	233.5	231.6	235.6	235.5	235.8	236.1	225.6	194.1	113.7	64.3	111.7	126.8	242.9	237.2	221.7	244.6	188.9	344.9		
7	272.0	272.4	277.2	268.1	298.2	286.1	281.4	268.6	288.7	271.4	295.2	278.4	290.3	260.2	289.1	292.1	306.0	284.5	285.4	286.9	10.6	67.7	79.1	56.9	287.6	306.0		
8	65.3	107.8	68.3	71.8	70.5	79.5	75.7	68.2	70.7	72.1	74.3	71.3	75.4	76.7	75.2	75.8	67.5	80.4	77.6	73.0	69.5	63.3	66.4	65.1	72.6	107.8		
9	66.4	78.9	68.1	62.9	66.1	62.9	62.0	63.8	65.1	59.1	61.2	60.3	73.1	78.0	83.2	75.8	78.1	64.8	63.7	65.6	64.5	96.5	83.5	67.7	68.7	96.5		
10	78.4	241.7	243.4	254.4	261.5	46.2	61.6	64.8	72.5	84.3	89.2	74.1	68.4	66.9	72.7	71.5	73.2	66.6	66.9	66.0	66.3	60.2	57.0	56.5	67.0	261.5		
11	79.8	54.8	76.7	81.9	62.3	63.7	84.6	79.9	86.1	60.6	90.6	237.1	44.0	74.7	75.6	74.3	65.7	61.6	60.7	58.1	63.3	95.1	75.7	55.5	70.1	237.1		
12	246.1	234.0	231.1	244.4	246.3	83.7	60.5	85.3	57.9	49.1	50.5	62.0	69.6	75.3	56.8	65.2	64.4	70.8	76.2	71.0	66.3	62.6	61.6	52.0	65.6	246.3		
13	64.4	59.4	67.9	66.8	74.1	235.0	250.2	83.4	94.0	109.3	88.6	69.9	69.6	68.7	60.7	68.1	70.5	73.3	67.5	82.2	248.8	230.8	221.9	229.3	82.0	250.2		
14	234.6	247.3	273.2	265.3	248.6	264.8	260.8	259.6	258.5	254.9	242.6	232.9	229.1	220.3	79.4	79.0	79.0	65.7	77.1	64.5	48.4	55.1	67.9	66.3	13.5	273.2		
15	71.7	71.0	69.2	80.2	94.5	91.1	86.2	79.1	71.1	60.4	74.6	75.8	68.3	60.5	64.1	53.7	58.6	64.6	63.0	71.0	75.0	72.5	62.1	63.1	70.2	94.5		
16	65.4	70.8	48.3	53.3	69.7	69.4	68.4	64.5	60.5	58.0	53.4	58.3	54.9	59.9	55.0	56.4	60.5	57.2	67.7	68.4	71.4	67.1	71.7	66.2	62.1	71.7		
17	59.3	58.0	47.8	53.9	61.0	55.7	54.8	51.7	59.7	62.1	48.2	57.2	55.8	66.2	67.2	61.3	74.2	70.6	72.3	72.0	60.2	57.4	52.3	84.9	60.6	84.9		
18	72.7	274.4	241.9	231.2	238.4	249.2	261.4	272.7	267.1	269.2	272.3	275.1	277.4	289.6	256.4	253.7	256.3	267.7	273.1	267.2	271.1	271.1	280.8	267.7	289.6			
19	283.5	290.2	289.5	283.4	272.1	278.1	281.0	276.3	267.9	282.1	257.3	256.9	253.2	249.7	249.9	247.5	249.7	248.3	254.4	263.4	272.1	282.0	290.7	302.8	267.6	302.8		
20	314.2	300.6	289.5	275.2	272.3	271.9	271.2	261.5	265.7	271.0	263.4	266.8	262.5	251.8	256.8	56.5	78.3	91.7	97.3	107.1	90.5	82.6	80.4	69.2	304.8	314.2		
21	59.5	57.4	58.5	56.9	92.9	117.9	98.2	77.8	208.9	233.2	245.1	252.3	251.6	258.9	239.9	236.8	235.3	255.3	268.4	271.3	280.2	271.8	282.6	284.8	263.9	284.8		
22	274.0	277.8	257.6	259.2	254.9	259.9	260.8	256.8	258.2	257.8	256.3	250.2	262.9	254.9	252.1	243.5	238.5	246.6	250.8	265.3	275.2	292.4	303.8	304.0	258.9	304.0		
23	14.3	78.8	78.9	97.7	105.3	98.9	79.3	76.5	70.2	75.3	71.3	66.1	76.8	76.5	78.3	76.7	89.4	88.5	101.4	94.9	88.8	98.3	94.3	98.7	84.3	105.3		
24	80.7	62.4	78.4	62.0	86.7	48.6	97.0	68.0	71.1	87.4	70.9	77.7	77.5	79.6	83.8	87.5	88.1	82.2	72.7	63.3	66.7	60.2	77.4	68.0	76.0	97.0		
25	84.3	70.6	67.7	69.6	59.9	92.3	241.1	239.5	245.1	238.5	95.2	77.7	77.9	83.2	83.1	90.7	98.7	88.9	92.9	81.4	65.8	61.2	64.2	63.2	80.6	245.1		
26	58.6	57.8	70.4	69.1	91.9	133.9	72.7	258.3	258.1	261.5	234.6	236.4	239.2	252.7	250.7	246.8	189.1	209.9	251.6	243.8	225.2	224.6	218.0	267.3	236.5	267.3		
27	268.4	267.8	265.6	264.8	267.1	263.7	265.1	265.6	266.5	262.5	238.5	233.7	235.5	237.4	237.6	257.3	281.1	75.1	69.4	61.5	85.8	85.8	92.1	92.1	259.4	281.1		
28	77.2	39.8	87.8	136.4	92.8	258.1	248.5	238.1	232.2	243.5	234.7	264.0	66.8	208.9	69.1	67.3	77.2	85.6	103.0	109.6	100.1	68.1	65.8	81.3	96.3	264.0		
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%		
MEAN	124.4	138.7	138.9	141.3	144.9	144.7	147.2	155.5	156.8	158.0	149.3	153.8	141.3	142.4	130.9	121.7	120.3	111.6	118.0	118.6	117.2	118.4	118.3	127.3				
MAX	314.2	300.6	289.5	283.4	298.2	286.1	281.4	344.9	288.7	282.1	295.2	278.4	290.3	289.6	289.1	292.1	306.0	284.5	285.4	286.9	280.2	292.4	303.8	304.0				



Number of Non-Zero Readings	672
Maximum 1-HR Average	345 degrees
Maximum 24-HR Average	305 degrees
Monthly Calibration Standard Deviation	88.77
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	135.0 degrees

Lagoon Pressure (mmHg) – February 2019

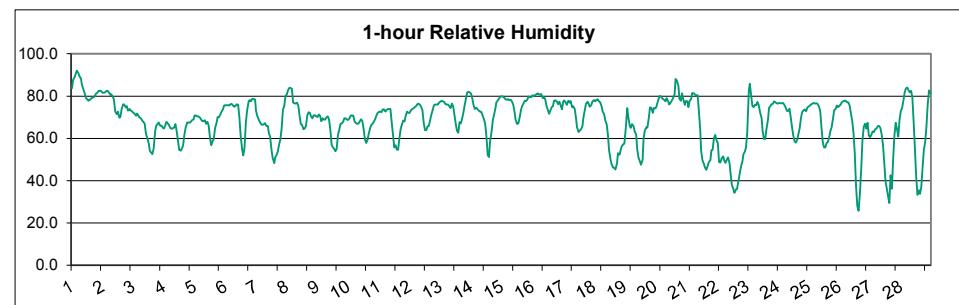
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	641.2	641.8	642.1	642.2	642.2	642.7	643.1	643.2	643.3	643.4	643.3	643.1	642.9	642.4	642.1	642.0	641.6	641.3	641.0	640.5	639.8	639.1	638.7	638.4	641.7	643.4
2	637.9	637.4	636.8	636.5	637.1	637.2	637.4	638.0	639.0	639.9	640.9	641.6	642.1	642.5	642.9	643.3	643.9	644.8	645.3	645.6	646.1	646.4	646.9	647.0	641.5	647.0
3	647.0	647.0	646.9	646.9	646.8	646.9	647.0	647.2	647.4	647.6	647.7	647.9	647.6	647.4	647.5	647.5	647.9	648.1	648.5	648.8	648.9	648.6	648.7	648.7	647.7	648.9
4	648.7	648.6	648.4	648.3	647.9	647.9	647.8	647.8	647.8	647.8	647.7	647.7	647.0	646.6	646.8	646.9	646.7	646.8	646.8	646.6	646.5	646.4	646.6	646.6	647.3	648.7
5	646.6	646.5	646.5	646.4	646.4	646.3	646.3	646.6	646.7	646.6	646.5	646.4	646.3	645.9	645.7	646.2	647.0	647.6	648.3	648.6	648.9	649.2	649.5	649.5	647.1	649.6
6	649.9	650.2	650.2	650.2	650.4	650.7	651.1	651.5	651.9	652.4	652.7	652.9	652.6	652.3	652.0	651.9	652.3	652.7	653.1	653.5	653.5	653.6	653.8	653.9	652.0	653.9
7	653.9	653.8	653.7	653.7	653.5	653.5	653.3	653.4	653.7	653.7	653.6	653.5	652.8	652.1	651.5	651.2	651.0	651.0	651.0	651.0	650.9	650.8	650.7	650.7	650.7	650.7
8	651.1	651.4	651.5	651.6	651.9	652.7	653.3	653.8	654.3	654.8	654.9	655.0	655.0	654.9	655.1	655.2	655.8	656.4	657.2	657.8	658.2	658.7	659.0	659.2	652.4	653.9
9	659.4	659.7	659.7	659.6	659.4	659.5	659.4	659.3	659.4	659.3	659.0	658.7	658.0	657.5	657.1	656.5	655.9	655.1	654.3	653.6	652.9	652.5	651.9	651.2	657.0	659.7
10	650.4	649.6	648.8	648.1	647.2	646.8	646.4	646.1	646.1	645.9	645.6	645.2	644.5	643.9	643.5	643.8	643.9	643.6	643.7	643.6	643.5	643.4	643.1	645.4	650.4	
11	642.9	643.0	643.0	643.0	643.1	643.2	643.4	643.5	643.8	644.2	644.6	644.9	645.0	644.7	644.7	645.2	645.8	646.5	646.9	647.2	647.6	647.9	648.2	648.1	645.0	648.2
12	648.0	647.9	647.9	647.7	647.9	647.7	647.4	647.4	647.5	647.6	647.3	646.7	646.2	645.7	645.2	644.9	644.8	644.7	644.6	644.4	643.9	643.7	643.5	643.2	646.1	648.0
13	642.8	642.4	642.1	641.9	641.3	640.9	640.4	640.1	640.0	640.2	640.3	640.2	640.0	639.7	639.7	640.0	640.3	640.8	641.3	641.7	642.2	642.6	643.1	643.6	641.1	643.6
14	644.0	644.3	644.7	644.8	645.0	645.2	645.6	645.7	645.7	645.4	644.9	644.2	643.5	642.9	642.8	642.5	642.3	642.4	642.5	642.5	642.3	642.2	642.2	643.9	645.7	
15	642.0	641.8	641.9	641.6	641.5	641.3	641.4	641.4	641.6	641.8	642.0	641.8	641.5	641.2	641.2	641.5	641.9	642.2	642.7	643.0	643.2	643.4	643.6	642.1	643.8	
16	643.9	643.9	643.9	644.1	644.4	644.7	645.1	645.5	645.8	646.3	646.5	646.9	647.1	647.3	647.6	648.1	648.7	649.3	650.1	650.8	651.2	651.6	652.1	647.4	652.6	
17	652.9	653.4	653.8	654.1	654.6	655.0	655.4	655.7	656.2	656.5	656.6	656.4	656.3	656.2	656.2	656.3	656.5	656.7	657.0	657.3	657.3	657.2	657.4	655.9	657.4	
18	657.2	657.1	656.9	656.5	656.1	655.9	655.5	655.3	655.5	655.3	654.7	654.0	653.1	652.1	651.3	651.3	650.7	650.2	649.9	649.7	649.4	649.1	648.8	648.4	653.0	657.2
19	648.6	648.8	649.0	648.6	648.4	647.1	647.7	646.9	646.8	646.0	645.4	644.9	644.0	643.8	643.7	643.4	643.5	643.4	643.4	643.4	643.3	643.3	645.6	649.0		
20	643.4	643.5	643.8	643.9	643.9	643.9	644.1	644.4	645.0	645.2	645.3	645.3	645.4	645.3	645.3	645.7	646.5	647.0	648.0	648.7	650.1	651.0	646.1	651.6		
21	651.9	652.1	652.3	652.3	652.4	652.7	652.7	652.6	652.5	652.2	651.8	651.3	650.7	649.7	649.0	648.5	648.3	648.0	647.7	647.7	647.6	647.4	647.2	646.5	650.2	652.7
22	646.0	645.5	644.8	644.5	644.2	643.9	643.8	643.7	643.6	643.7	643.8	643.9	643.7	643.2	643.1	643.4	643.6	643.9	644.3	644.6	644.8	645.2	645.6	644.2	646.0	
23	646.2	646.9	647.7	649.0	650.2	651.1	652.0	652.8	653.6	654.2	654.6	654.8	654.7	654.5	654.5	654.8	655.3	655.7	656.1	656.6	657.1	657.2	657.4	653.5	657.4	
24	657.5	657.2	657.2	656.8	656.6	656.3	655.8	655.5	655.2	655.2	655.2	654.9	654.4	653.8	653.2	652.9	653.0	653.0	653.1	653.2	653.6	653.7	653.8	654.8	657.5	
25	654.1	654.1	654.3	654.3	654.4	654.5	654.5	654.5	654.6	654.6	654.2	653.7	653.3	652.8	652.5	652.5	652.4	652.4	652.7	652.7	652.8	652.8	652.8	653.5	654.6	
26	652.8	653.1	653.3	653.5	653.6	653.9	654.4	654.8	655.4	655.8	655.6	655.3	654.9	654.6	654.4	653.7	652.8	652.6	651.6	651.3	651.7	651.8	651.9	652.0	654.7	656.1
27	656.3	656.3	656.5	656.2	655.9	655.7	655.8	655.8	655.5	655.4	654.9	654.4	653.7	653.7	652.8	652.6	651.6	651.4	651.3	651.4	651.5	652.1	653.9	656.5		
28	652.2	651.9	651.6	651.4	651.5	651.3	651.0	651.0	651.1	650.9	650.3	649.6	648.8	648.1	647.5	647.2	647.0	647.3	647.9	648.3	648.7	648.9	649.1	649.7	652.2	
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	648.9	648.9	648.9	648.9	648.8	648.9	649.1	649.2	649.4	649.3	649.2	648.8	648.4	648.2	648.1	648.3	648.4	648.7	648.9	649.0	649.0	649.1	649.2			
MAX	659.4	659.7	659.7	659.6	659.4	659.5	659.4	659.3	659.4	659.3	659.0	658.7	658.0	657.5	657.1	656.5	656.7	657.2	657.8	658.2	658.7	659.0	659.2			



Number of Non-Zero Readings	672
Maximum 1-HR Average	660 MMHg
Maximum 24-HR Average	657 MMHg
Operational Time	672 HRS
Monthly Calibration Standard Deviation	5.203
Operational Uptime	100.0 %
Monthly Average	648.9 MMHg

Lagoon Relative Humidity (%) – February 2019

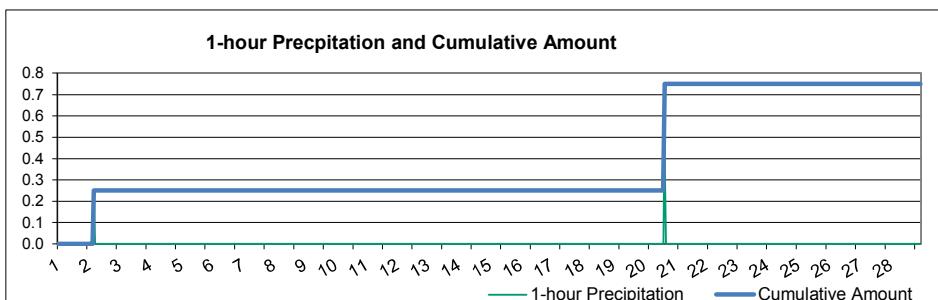
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	83.7	87.6	89.0	90.2	92.0	90.8	89.5	88.2	85.3	83.4	81.1	79.2	78.4	77.8	78.1	78.9	79.1	79.5	80.1	81.2	81.8	82.4	82.5	82.3	83.4	92.0
2	81.6	81.5	81.8	82.4	82.4	81.8	80.6	81.0	79.4	78.2	72.7	71.4	72.7	69.8	70.1	74.0	76.2	76.0	74.6	75.1	73.1	73.8	73.2	72.7	76.5	82.4
3	72.3	71.8	70.7	71.8	70.9	70.0	69.6	68.3	67.8	66.9	62.2	60.3	57.4	54.3	53.2	52.4	55.0	63.7	66.0	66.8	67.5	66.0	65.9	65.0	64.8	72.3
4	64.6	66.1	67.8	66.8	66.3	65.0	64.5	64.9	65.3	66.7	63.5	58.9	54.5	54.2	55.0	56.6	61.7	65.0	67.5	67.5	67.4	67.9	68.5	69.0	64.0	69.0
5	70.8	70.7	70.5	70.3	69.8	69.0	68.0	68.2	68.5	66.8	67.8	60.4	56.8	58.7	59.8	64.9	66.9	70.2	70.0	71.1	72.6	73.9	75.7	75.7	67.8	75.7
6	75.7	75.8	75.7	75.5	76.2	76.2	75.6	74.9	75.6	76.2	75.9	69.9	61.1	54.4	52.0	55.5	67.0	73.1	77.6	78.0	77.5	78.7	78.5	78.4	72.3	78.7
7	73.0	70.6	69.1	67.7	66.5	66.5	66.7	67.1	65.8	65.8	62.5	60.7	55.0	50.8	48.3	51.1	52.1	53.8	57.1	59.5	64.7	73.4	75.2	80.1	63.5	80.1
8	80.7	82.8	84.0	83.8	83.5	76.9	76.6	76.4	77.0	75.5	70.6	66.7	66.2	64.3	64.7	65.8	70.7	72.4	72.0	70.3	69.5	70.8	71.0	70.3	73.4	84.0
9	70.1	71.3	70.7	68.1	69.6	68.9	68.9	69.9	70.4	69.1	64.3	57.2	55.7	55.2	54.0	55.0	61.6	64.0	66.9	67.1	67.9	69.5	69.6	68.9	65.6	71.3
10	68.8	69.5	70.8	70.9	70.7	68.0	67.2	66.9	67.0	68.0	69.0	68.3	64.6	59.8	57.8	59.1	62.1	64.5	66.3	67.0	67.9	69.1	70.7	72.0	66.9	72.0
11	72.5	72.7	72.4	73.7	72.7	73.4	74.0	73.9	73.8	67.5	61.8	55.7	56.7	54.6	54.6	60.1	64.5	66.6	68.4	67.9	70.9	72.7	72.2	67.8	74.0	
12	72.2	73.2	73.8	74.2	74.9	75.3	76.1	76.5	75.9	75.0	73.2	67.4	63.8	63.8	65.7	65.8	68.5	71.3	73.4	75.8	76.0	76.0	75.9	76.8	72.5	76.8
13	77.3	77.7	77.6	77.2	76.2	76.1	76.0	75.3	74.4	76.5	75.2	71.1	66.8	66.8	62.7	67.6	67.1	69.4	72.3	75.7	78.9	81.7	82.1	81.8	74.2	82.1
14	81.1	78.7	75.6	73.8	74.5	73.8	73.1	72.7	72.5	70.9	69.2	66.9	60.9	52.0	51.2	57.9	63.2	68.7	71.4	74.1	77.1	78.0	79.0	79.8	70.7	81.1
15	79.9	79.7	79.1	78.4	78.3	78.5	78.1	78.3	77.3	75.8	72.4	68.8	66.8	67.2	70.1	73.3	75.1	76.7	77.8	77.7	78.4	79.7	79.6	79.6	76.1	79.9
16	80.3	79.9	80.3	80.8	81.3	80.8	80.6	81.0	79.0	79.7	78.2	75.1	73.9	71.6	73.2	74.9	75.2	77.8	78.0	77.6	76.2	77.3	76.0	73.7	77.6	81.3
17	77.3	78.0	76.9	75.8	77.7	76.9	77.6	74.7	75.3	73.8	69.5	65.3	63.0	63.6	64.4	65.8	69.8	73.8	76.3	77.3	76.2	75.0	75.8	77.4	73.2	78.0
18	78.1	77.5	78.0	78.4	77.6	76.8	75.0	72.8	71.3	68.8	66.4	61.3	54.7	49.8	47.9	46.2	46.0	45.3	48.0	52.9	52.3	54.8	56.3	57.2	62.2	78.4
19	57.5	65.7	74.3	70.4	65.9	64.9	66.7	65.7	63.5	61.8	55.1	51.0	48.8	47.5	49.9	59.8	63.8	65.3	65.1	70.5	74.6	74.5	72.1	74.4	63.7	74.6
20	74.2	74.9	77.2	79.8	80.1	79.2	78.6	78.3	77.5	79.0	77.6	75.9	76.7	78.1	78.9	80.9	88.1	87.4	84.7	78.7	77.8	81.4	78.5	75.8	79.1	88.1
21	77.6	77.5	74.8	77.7	78.6	81.5	81.2	81.0	80.3	80.4	74.7	64.2	54.1	49.7	47.8	46.2	45.1	46.9	48.7	49.9	54.4	54.7	60.2	61.7	64.5	81.5
22	58.5	57.9	48.8	48.7	50.6	51.4	49.4	48.4	49.9	51.1	48.0	43.1	37.9	36.3	34.3	35.9	36.1	39.4	42.8	46.3	49.2	52.4	53.6	55.7	46.9	58.5
23	62.7	82.4	85.9	80.7	75.4	74.7	76.0	75.7	77.1	75.7	72.4	69.6	63.6	59.7	59.7	64.3	69.1	74.4	75.2	76.1	76.3	77.5	77.1	76.7	73.2	85.9
24	76.5	76.8	76.6	76.8	75.8	74.6	73.0	72.9	74.0	69.8	65.2	61.3	58.6	58.0	59.3	62.1	65.0	69.7	72.5	73.3	73.7	72.8	74.6	70.4	76.8	
25	75.1	75.6	76.1	76.5	76.8	76.5	76.7	76.3	75.0	73.0	65.3	58.3	55.8	55.8	57.9	58.3	60.4	63.6	65.4	69.5	73.4	73.9	75.5	74.7	69.4	76.8
26	75.3	76.0	77.2	77.6	77.7	77.1	77.0	75.7	71.7	68.4	62.8	52.9	37.4	27.9	25.8	33.7	45.0	58.9	65.4	66.8	64.8	67.3	61.3	62.6	77.7	
27	60.5	61.8	63.2	63.1	64.4	64.6	65.9	65.8	64.9	61.9	57.2	49.1	39.7	36.4	32.7	29.3	42.6	36.2	50.2	61.4	67.4	64.4	60.9	68.8	55.5	68.8
28	73.0	74.3	77.8	81.8	83.7	84.0	82.9	81.7	82.5	79.5	67.7	55.2	41.6	33.4	35.4	33.7	37.2	46.2	54.6	58.1	65.5	76.1	82.6	81.2	65.4	84.0



Number of Non-Zero Readings	672
Maximum 1-HR Average	92.0 %
Maximum 24-HR Average	83.4 %
Monthly Calibration Standard Deviation	11.04
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	68.7 %

Lagoon Precipitation (mm) – February 2019

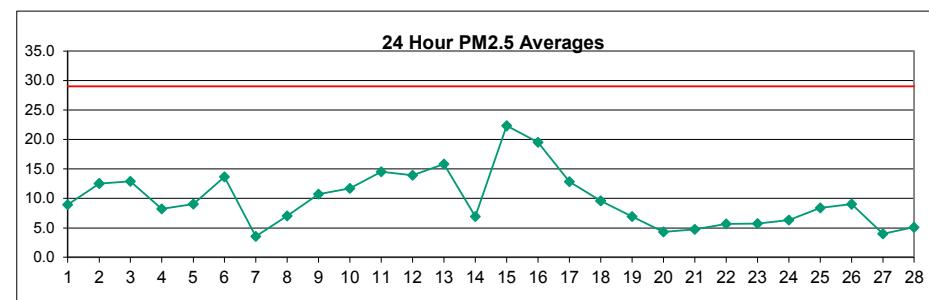
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



Number of Non-Zero Readings	2
Maximum 1-HR Average	0.5 MM
Maximum 24-HR Average	0.0 MM
Monthly Calibration Standard Deviation	0.022
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	0.00 MM

Windridge PM_{2.5} ($\mu\text{g}/\text{m}^3$) – February 2019

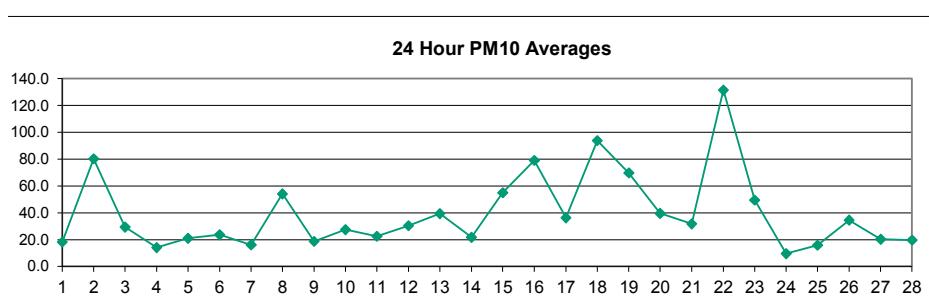
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.2	10.6	10.6	10.2	10.2	6.9	5.2	6.9	4.8	6.7	10.2	6.9	4.8	4.5	5.6	9.9	10.6	10.6	9.9	9.7	14.2	12.4	11.7	11.5	9.0	14.2
2	16.2	18.4	10.0	13.1	10.4	14.4	16.3	21.2	20.4	16.8	15.8	15.7	14.2	12.2	8.1	9.2	9.6	9.9	10.6	8.0	5.7	10.6	8.0	6.6	12.6	21.2
3	7.3	7.0	7.7	7.7	18.5	11.1	14.3	13.5	12.5	13.1	11.6	19.4	17.7	20.6	11.8	13.8	10.2	13.5	11.8	14.7	16.4	12.4	10.7	11.6	12.9	20.6
4	8.3	5.3	7.5	12.0	7.7	6.2	5.5	4.8	5.9	5.2	6.3	7.0	6.6	4.9	8.5	10.4	9.5	7.9	11.7	10.2	12.6	16.0	10.2	7.3	8.2	16.0
5	5.2	7.4	9.6	9.9	8.5	8.0	6.9	5.2	6.0	9.2	7.0	4.8	4.5	7.9	13.9	13.5	10.6	9.2	10.5	13.1	11.3	9.6	12.1	13.5	9.1	13.9
6	12.5	12.6	16.5	16.2	19.5	22.4	12.1	11.4	12.1	13.0	17.1	14.6	11.4	11.3	9.9	9.1	8.3	26.9	7.4	13.3	15.7	14.9	10.3	9.5	13.7	26.9
7	8.0	4.7	3.0	3.7	4.7	2.1	0.4	1.9	3.6	1.9	4.1	4.3	1.5	1.5	1.9	3.0	5.4	3.3	1.6	2.7	6.5	4.8	6.5	3.4	3.5	8.0
8	4.5	8.8	8.5	9.8	6.2	5.8	13.1	11.0	10.5	6.3	5.5	4.7	3.3	3.7	4.1	5.5	4.4	5.0	10.2	8.0	5.2	6.4	9.9	8.5	7.0	13.1
9	8.9	12.0	10.8	17.1	13.9	13.1	11.4	11.0	11.0	10.9	8.8	9.9	8.7	5.9	8.1	7.6	5.6	8.0	12.9	13.8	9.6	10.3	12.2	16.0	10.7	17.1
10	12.6	16.3	11.3	11.1	12.7	10.2	9.6	11.3	8.4	8.4	17.4	11.7	10.4	11.7	10.7	13.4	9.9	8.6	14.6	12.7	9.6	12.8	11.5	14.2	11.7	17.4
11	12.5	12.8	12.6	16.3	10.5	6.9	4.5	5.9	9.6	10.4	14.9	10.9	30.2	43.0	12.1	10.7	9.4	15.3	12.9	14.9	21.4	15.9	18.6	16.5	14.5	43.0
12	17.6	13.3	17.4	12.5	12.9	14.0	14.5	10.3	10.8	23.3	12.8	11.8	14.1	18.0	9.2	11.4	8.8	8.0	17.1	16.4	14.4	14.0	15.8	16.5	14.0	23.3
13	17.1	12.5	13.4	18.3	17.1	13.5	11.6	8.7	16.4	22.9	17.6	18.2	13.8	11.3	9.2	11.0	12.8	11.8	12.8	22.3	20.2	20.6	22.4	24.7	15.8	
14	19.1	8.7	6.3	6.9	4.7	3.3	2.5	1.1	0.7	0.0	0.3	C	C	C	5.1	3.3	2.9	2.3	5.6	13.9	14.4	19.0	18.5	6.9	19.1	
15	28.2	27.4	23.1	24.1	19.9	28.1	22.4	23.5	23.4	23.1	23.0	19.4	17.5	13.6	13.2	15.1	17.3	21.6	20.2	25.6	22.1	28.9	26.8	28.0	22.3	28.9
16	36.8	25.7	26.0	26.4	28.9	28.4	29.3	26.1	28.5	23.2	30.7	24.6	26.6	19.6	11.4	13.0	8.8	7.7	8.0	5.5	8.0	6.6	7.1	12.1	19.5	36.8
17	12.1	11.8	16.9	19.1	21.8	13.0	12.4	9.6	15.7	13.1	13.1	9.6	13.5	10.2	10.7	12.8	11.3	8.4	8.8	19.3	11.4	10.8	11.7	11.4	12.9	21.8
18	12.5	12.2	15.0	11.1	14.2	10.2	13.5	10.6	9.6	11.7	9.5	8.5	8.0	5.8	4.5	7.7	9.9	8.4	5.9	5.9	5.9	9.9	9.6	10.8	9.6	15.0
19	7.0	7.3	5.5	5.2	6.7	8.8	7.7	7.0	9.2	12.0	7.7	5.9	9.2	10.2	6.6	4.4	3.4	7.3	7.0	7.3	6.2	4.8	4.8	5.8	7.0	12.0
20	3.9	1.2	4.1	5.3	3.3	3.0	3.7	4.7	3.3	1.5	4.1	5.3	4.0	4.0	3.0	5.1	5.8	4.5	4.0	4.4	5.9	6.2	6.6	6.2	4.3	6.6
21	3.6	2.2	3.3	5.1	5.5	5.9	7.3	6.6	7.0	6.2	5.5	3.7	5.2	6.2	5.3	6.6	5.1	4.4	2.9	0.5	3.4	6.2	3.3	3.3	4.8	7.3
22	4.1	5.8	4.8	5.5	7.0	7.0	7.0	8.1	8.0	6.3	8.1	9.2	10.6	8.0	5.1	4.1	4.7	2.6	3.7	2.9	4.0	4.0	2.9	2.9	5.7	10.6
23	1.5	1.1	3.0	4.9	10.7	14.9	9.9	11.0	8.4	6.6	5.1	3.7	4.4	6.2	4.4	2.2	1.5	3.7	5.6	8.4	7.8	4.7	3.0	4.8	5.7	14.9
24	7.7	5.9	5.8	4.0	3.3	3.4	4.8	5.9	8.9	12.0	9.5	6.3	7.5	7.7	5.5	5.9	4.8	4.1	5.5	5.2	7.7	6.3	7.3	6.9	6.3	12.0
25	5.2	6.2	6.5	3.7	3.3	4.9	8.8	8.0	5.3	8.8	8.4	7.7	9.3	7.6	3.7	3.1	8.7	8.8	10.7	15.7	11.8	13.3	17.2	8.4	17.2	
26	10.6	9.6	11.7	12.4	11.5	18.2	14.3	14.4	9.9	10.7	15.3	10.7	11.7	12.0	7.3	7.3	6.2	4.0	2.6	1.9	3.3	2.6	3.0	5.1	9.0	18.2
27	3.3	4.4	5.5	2.9	0.0	0.4	1.2	3.3	4.4	4.4	2.2	3.3	2.9	2.3	7.7	10.9	7.6	5.1	3.7	5.3	4.4	4.0	4.4	2.6	4.0	10.9
28	2.6	3.7	2.6	3.4	6.3	7.7	8.0	6.7	9.1	6.6	7.0	7.7	7.9	5.5	4.0	2.9	2.3	5.1	5.5	4.0	4.4	4.0	3.3	2.2	5.1	9.1



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	667	
Maximum 1-HR Average	43.0 UG/M3	
Maximum 24-HR Average	22.3 UG/M3	
Monthly Calibration Standard Deviation	6.1	Operational Time Opperenational Uptime Monthly Average
		672 HRS 100.0 % 9.8 UG/M3

Windridge PM₁₀ ($\mu\text{g}/\text{m}^3$) – February 2019

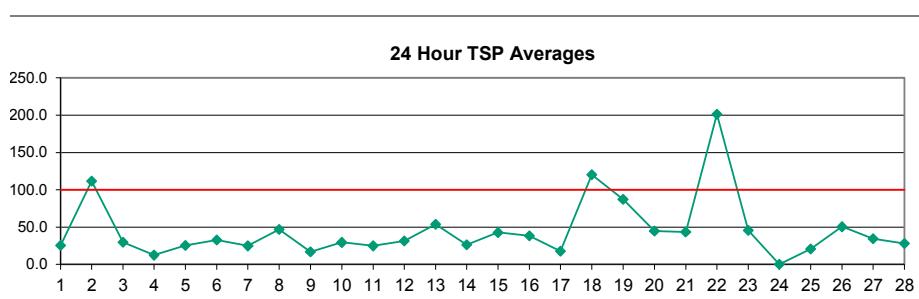
Day	HOUR																								MEAN	MAX		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	17.3	9.6	16.1	12.0	9.4	10.7	8.2	14.5	46.6	21.5	18.9	20.3	22.7	15.0	20.4	25.7	26.9	22.7	14.8	14.8	15.0	18.9	17.6	17.9	18.2	46.6		
2	28.6	35.7	54.9	80.9	116.2	190.4	98.6	43.6	52.7	52.4	126.5	52.3	82.7	127.2	74.3	112.2	146.6	104.6	69.3	120.4	66.3	41.7	32.0	17.8	80.3	190.4		
3	26.9	20.7	35.2	35.3	40.5	36.3	29.5	20.5	28.3	25.8	29.1	20.4	24.1	17.9	27.1	28.5	30.9	23.6	44.7	46.4	41.7	30.7	16.5	25.2	29.4	46.4		
4	11.6	37.5	25.1	6.8	9.8	21.8	8.1	8.0	7.0	10.6	7.1	18.9	17.5	14.4	16.3	18.8	14.7	12.1	12.3	16.8	17.4	14.5	5.2	7.4	14.2	37.5		
5	25.3	14.1	10.8	12.0	6.7	7.5	8.1	8.1	10.7	22.9	21.6	60.4	41.4	25.2	30.2	42.4	14.4	42.6	18.8	16.4	21.5	16.0	11.6	14.8	21.0	60.4		
6	12.1	12.2	14.9	16.1	14.7	25.7	25.6	24.1	19.4	35.4	42.9	31.4	80.8	45.1	16.0	9.4	9.0	38.5	16.0	10.9	13.5	13.8	24.0	14.5	23.6	80.8		
7	4.0	5.4	8.1	10.6	6.8	10.6	6.7	7.2	20.4	22.5	49.0	7.0	16.2	19.0	63.1	45.0	14.7	9.3	6.8	9.0	6.6	13.7	18.6	9.6	16.3	63.1		
8	16.1	12.2	13.8	24.4	31.6	170.8	87.9	81.0	68.8	20.8	36.6	38.1	45.2	100.3	65.4	77.6	48.3	75.4	57.9	49.1	59.6	58.9	37.3	20.6	54.1	170.8		
9	31.0	26.6	12.7	25.5	20.4	25.6	21.5	19.0	20.6	26.6	12.2	13.6	17.0	18.8	14.8	12.4	18.8	15.2	24.1	16.2	14.7	12.2	14.9	16.2	18.8	31.0		
10	15.1	17.6	17.7	17.9	28.0	17.5	15.0	18.8	15.7	41.4	26.7	55.9	28.2	21.4	15.1	21.4	16.2	17.4	13.5	13.4	14.0	68.5	75.6	66.3	27.4	75.6		
11	63.4	17.8	22.4	7.0	16.9	18.7	11.6	11.5	8.1	9.7	17.7	22.6	53.1	61.4	34.9	18.7	13.6	17.8	25.3	13.6	16.1	12.7	29.3	17.0	22.5	63.4		
12	22.9	20.5	25.8	28.1	18.8	17.9	28.2	22.0	15.4	41.2	20.1	15.0	20.6	30.0	27.3	28.4	29.5	23.5	38.4	52.8	51.4	50.4	62.9	40.2	30.5	62.9		
13	28.0	17.5	14.8	15.0	18.7	13.4	10.9	13.8	23.9	49.2	59.8	41.8	36.2	25.4	22.9	20.9	38.6	20.3	23.6	77.3	42.9	68.3	87.3	174.9	39.4	174.9		
14	96.3	23.9	10.7	9.3	6.6	3.9	1.3	2.7	4.1	8.5	58.5	C	C	C	C	C	21.8	31.0	26.9	18.8	23.0	21.6	23.1	21.8	96.3			
15	32.4	28.4	29.7	32.3	108.1	88.8	132.1	87.4	43.5	56.7	44.7	45.9	35.0	21.5	16.6	37.7	30.3	65.5	94.6	79.6	56.8	54.1	50.3	47.4	55.0	132.1		
16	47.5	55.5	54.1	50.0	46.0	47.2	81.1	147.6	136.1	90.7	83.9	77.1	71.7	67.9	79.1	107.5	55.9	81.5	93.7	106.7	83.9	79.9	79.8	72.7	79.1	147.6		
17	46.2	55.6	57.9	39.3	42.1	51.4	49.9	35.2	36.5	33.7	27.1	41.7	35.0	23.6	63.5	54.0	44.4	29.6	22.2	14.8	14.9	20.1	11.0	22.2	36.3	63.5		
18	16.1	10.9	17.7	24.2	16.3	19.2	16.2	13.6	20.8	48.8	53.5	90.1	51.8	68.7	52.4	179.7	150.3	213.9	198.8	169.4	93.5	237.6	187.8	299.1	93.8	299.1		
19	193.8	116.6	66.0	117.8	46.0	44.6	37.8	35.8	71.2	113.1	33.6	64.2	90.8	91.8	73.0	63.4	47.3	45.0	63.6	62.0	115.3	45.5	17.6	18.7	69.8	193.8		
20	8.0	4.0	6.9	18.9	18.8	16.2	17.6	23.0	24.8	50.7	83.3	47.3	45.1	68.2	20.4	29.8	33.1	69.6	23.7	135.0	29.8	28.4	100.6	45.5	39.5	135.0		
21	17.7	27.2	34.6	13.3	6.7	5.4	9.4	10.7	9.5	12.7	39.7	63.1	36.6	38.3	59.0	28.0	10.0	42.3	57.6	25.7	25.6	24.7	108.8	57.6	31.8	108.8		
22	97.7	170.1	65.2	211.9	161.9	141.4	233.7	191.5	143.0	316.2	393.9	219.8	97.1	213.1	117.9	115.3	52.1	15.9	70.1	54.7	48.0	12.0	6.7	6.2	131.5	393.9	49.5	199.6
23	4.0	5.3	7.1	96.9	199.6	78.7	84.2	94.4	68.6	81.9	39.8	29.4	21.7	27.0	25.5	18.9	34.6	72.3	26.6	34.3	55.0	29.9	34.6	34.6	9.6	21.5		
24	4.3	21.5	16.0	8.0	6.7	6.6	4.0	2.7	5.6	16.1	12.1	9.4	6.7	8.2	13.4	7.9	2.7	4.2	16.1	10.8	10.9	16.7	12.0	8.1	15.8	38.9		
25	10.9	14.5	9.3	16.8	13.6	17.3	6.8	11.8	16.6	33.7	28.3	24.0	9.4	8.0	4.2	6.7	6.7	8.1	9.5	13.6	19.2	32.1	19.3	38.9	34.5	124.9		
26	23.7	59.4	49.8	34.9	27.2	26.9	20.4	25.3	20.3	22.9	88.6	54.3	124.9	71.4	52.7	45.3	13.6	18.7	10.6	5.4	5.7	6.8	10.6	8.1	20.3	58.5		
27	11.8	10.7	9.4	8.0	6.7	8.1	8.2	14.8	12.3	19.6	50.0	44.5	37.4	40.9	53.0	58.5	12.2	13.7	22.6	8.0	4.3	2.2	17.5	13.6	19.6	46.9		
28	19.0	23.2	32.0	11.0	22.2	16.3	19.5	46.9	27.0	23.0	23.4	41.5	20.1	12.1	6.7	5.4	8.2	13.5	13.4	7.9	2.8	9.7	42.8	22.1	19.6	46.9		



Number of Non-Zero Readings	666
Maximum 1-HR Average	393.9 UG/M3
Maximum 24-HR Average	131.5 UG/M3
Operational Time	672 HRS
Monthly Calibration Standard Deviation	43.66
Operational Uptime	100.0 %
Monthly Average	39.6 UG/M3

Windridge TSP ($\mu\text{g}/\text{m}^3$) – February 2019

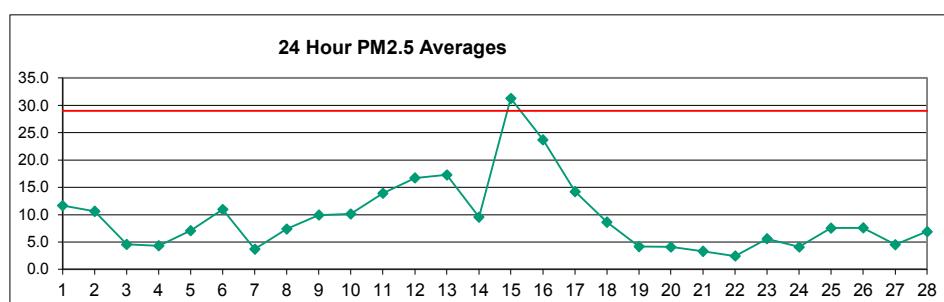
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	17.3	10.9	14.7	10.7	8.1	8.1	8.5	20.8	62.0	55.8	59.7	32.3	27.5	27.4	36.8	42.9	33.5	26.8	20.1	16.1	13.9	22.6	15.1	21.0	25.5	62.0
2	37.8	36.1	43.4	48.0	94.2	172.3	200.9	83.0	90.4	86.9	206.4	92.4	102.3	203.0	106.0	115.5	181.0	163.7	130.1	213.4	134.9	61.8	49.0	27.0	111.6	213.4
3	27.5	21.0	35.9	35.9	51.8	58.6	37.2	26.1	35.4	39.2	37.2	23.1	23.0	21.2	13.6	15.4	18.7	14.5	35.6	44.5	40.1	27.7	13.8	18.5	29.8	58.6
4	10.2	26.7	19.8	9.5	10.7	9.4	9.4	5.5	8.0	7.0	13.3	9.9	5.7	13.5	13.4	12.0	10.3	15.1	21.6	21.4	18.5	9.4	8.7	12.4	26.7	
5	22.6	14.8	14.6	9.1	7.9	5.3	5.4	9.7	44.6	42.5	25.5	49.4	34.6	50.8	64.4	24.8	62.0	26.8	21.6	20.1	16.0	12.3	14.8	25.6	64.4	
6	13.5	14.0	25.3	16.4	22.0	30.4	42.7	35.9	23.2	58.8	69.8	47.6	135.4	70.9	22.2	5.5	9.4	38.1	12.5	13.5	13.7	19.7	34.3	14.4	32.9	135.4
7	5.7	13.4	11.1	17.5	17.1	10.8	11.1	18.5	37.6	33.5	83.1	8.9	25.4	22.0	85.5	59.0	18.8	16.0	12.3	12.2	11.2	20.6	27.8	15.4	24.8	85.5
8	20.0	15.2	21.9	26.6	23.4	143.3	106.3	93.8	67.9	16.2	35.9	31.4	39.3	66.9	51.0	67.5	35.6	44.8	46.8	35.9	50.2	51.3	19.6	15.1	46.9	143.3
9	21.7	22.5	13.8	20.5	25.4	18.7	14.0	17.6	18.1	28.9	18.7	15.0	18.7	13.5	14.5	8.2	10.9	15.2	21.8	15.7	6.5	15.7	11.0	15.0	16.7	28.9
10	17.6	18.9	18.9	26.1	33.2	19.0	14.8	20.2	19.5	31.2	34.7	50.6	33.3	25.3	18.1	29.4	21.5	18.7	13.9	22.3	10.1	52.5	74.9	81.7	29.4	81.7
11	69.2	16.0	12.1	10.6	8.1	8.0	7.0	12.0	9.6	14.3	29.4	23.0	51.1	69.9	46.3	24.0	17.6	19.9	39.3	13.7	17.4	15.8	34.8	27.6	24.9	69.9
12	29.4	25.9	32.0	47.5	21.8	26.0	32.0	22.7	18.6	38.1	14.9	16.6	25.2	43.0	40.2	31.4	34.8	28.4	38.2	43.2	40.2	32.5	33.8	33.3	31.2	47.5
13	21.2	13.4	12.5	19.0	20.1	16.1	14.6	11.9	35.5	69.5	75.6	50.0	46.6	30.1	35.6	18.7	41.1	24.4	31.6	120.8	71.7	123.6	134.6	248.5	53.6	248.5
14	139.8	31.6	13.3	9.2	5.2	1.3	1.5	5.2	3.1	16.0	68.1	C	C	C	47.2	33.5	16.4	28.3	23.1	29.7	25.6	21.6	17.6	19.1	26.5	139.8
15	28.4	29.7	23.1	25.9	41.9	40.7	43.2	36.6	39.8	74.2	50.9	59.4	45.7	24.2	17.8	33.7	28.9	60.9	79.6	59.4	43.4	47.3	47.3	42.7	79.6	
16	40.5	36.4	25.9	36.4	29.8	29.9	39.8	70.6	76.9	59.5	52.7	45.9	45.9	39.2	33.9	38.9	18.8	15.2	17.8	31.3	40.5	33.7	29.9	36.3	38.6	76.9
17	23.0	24.3	24.4	26.9	17.7	28.3	21.5	14.8	12.6	12.1	12.3	21.5	14.8	11.0	25.6	20.2	16.1	9.4	10.9	17.6	21.4	10.4	14.8	10.9	17.6	28.3
18	18.8	12.7	17.5	12.2	16.3	20.1	10.8	9.7	26.4	68.9	57.5	90.1	51.9	79.6	64.4	266.6	244.6	357.4	317.1	226.0	122.8	250.4	191.2	354.4	120.3	357.4
19	205.1	131.7	69.8	112.9	55.4	47.3	39.1	31.9	80.9	135.3	40.3	102.3	146.6	154.9	95.9	75.4	51.6	61.4	90.9	100.0	163.6	54.9	19.0	22.8	87.0	205.1
20	10.7	4.8	4.3	24.3	19.8	18.9	20.3	19.9	23.0	49.2	75.3	43.2	31.3	39.1	30.0	41.5	15.1	32.6	41.4	155.3	49.7	30.6	221.0	72.1	44.7	221.0
21	16.2	17.8	30.6	5.3	4.0	5.4	8.3	16.1	9.8	30.7	79.1	33.8	32.7	48.2	91.3	49.5	21.3	77.7	104.4	34.0	44.6	44.0	153.2	83.7	43.4	153.2
22	141.6	244.5	95.6	282.7	243.9	236.4	356.7	280.8	219.4	504.8	665.2	335.5	156.8	289.5	187.1	189.0	72.3	25.8	105.3	84.1	90.7	14.9	4.8	2.6	201.2	665.2
23	2.8	10.7	7.4	51.8	257.8	118.6	80.9	57.5	58.2	53.9	40.3	21.5	17.4	14.8	15.1	8.0	24.3	24.2	88.2	25.7	28.6	38.8	16.4	29.2	45.5	257.8
24	0.0	6.7	6.6	4.0	2.6	2.7	4.1	9.5	12.4	28.1	14.9	17.5	13.5	12.1	10.7	5.4	8.2	8.2	10.8	10.4	14.9	16.0	6.6	4.1	N/A	60.3
25	9.5	12.7	12.2	16.1	10.3	8.4	10.9	16.3	22.2	53.9	40.6	40.1	16.0	6.7	8.1	8.2	16.1	12.2	17.4	15.0	23.2	36.4	28.7	20.9	60.3	
26	26.9	87.4	53.5	20.3	24.6	36.3	21.9	33.6	24.3	23.6	120.9	74.5	207.8	157.5	102.7	83.9	13.9	34.8	17.2	2.7	5.5	14.9	18.6	4.3	50.5	207.8
27	20.2	14.7	9.4	8.2	16.1	13.4	10.5	18.9	17.8	31.9	70.4	66.3	61.5	88.4	105.6	101.4	22.8	16.8	49.5	19.9	2.7	6.0	37.5	16.5	34.4	105.6
28	32.6	41.0	57.4	17.9	35.1	29.8	31.7	59.2	39.3	42.0	43.9	69.6	28.2	18.6	4.1	9.5	12.3	20.3	21.3	7.6	4.1	10.9	18.9	18.4	28.1	69.6
NO.	28	28	28	28	28	28	28	28	28	28	28	27	27	27	28	28	28	28	28	28	28	28	28	28	669	100%
MEAN	36.8	34.1	26.0	34.2	40.2	41.6	43.0	37.8	39.3	61.0	76.7	53.7	54.0	59.9	49.0	52.1	37.2	45.3	51.4	50.5	40.5	39.6	46.1	47.2		
MAX	205.1	244.5	95.6	282.7	257.8	236.4	356.7	280.8	219.4	504.8	665.2	335.5	207.8	289.5	187.1	266.6	244.6	357.4	317.1	226.0	163.6	250.4	221.0	354.4		



Number of 24HR Exceedences	3	Proposed Guideline
Number of Non-Zero Readings	668	
Maximum 1-HR Average	665.2 UG/M3	
Maximum 24-HR Average	201.2 UG/M3	
Izs Calibration Time		
Down Time	0	
Standard Deviation	61.9	
Operational Time		
Operational Uptime		
Monthly Average		
		672 HRS
		100.0 %
		45.7 UG/M3

West PM_{2.5} ($\mu\text{g}/\text{m}^3$) – February 2019

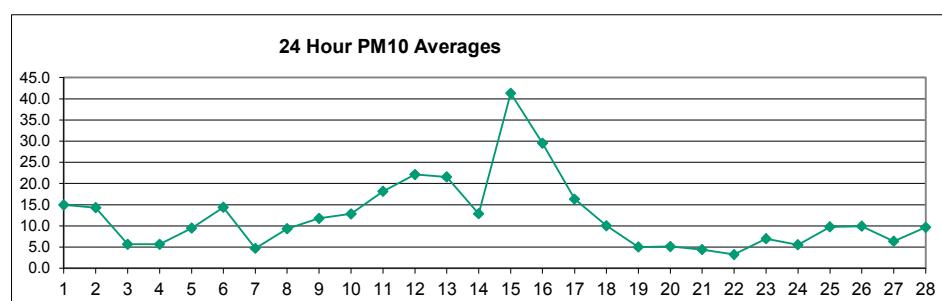
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	13.1	18.3	19.0	15.5	9.3	5.4	4.6	5.0	6.8	7.1	7.3	6.7	7.0	7.7	9.0	11.0	13.1	14.3	13.7	13.7	14.2	17.8	20.7	20.1	11.7	20.7
2	22.5	18.2	15.9	15.0	15.6	18.6	18.1	20.5	14.6	11.6	10.0	9.0	7.7	6.8	6.1	5.0	5.1	4.8	5.0	5.0	5.1	5.1	4.8	4.8	10.6	22.5
3	3.9	4.2	4.2	4.9	5.1	3.8	4.3	3.8	4.2	5.1	5.6	6.2	5.3	5.7	5.7	5.3	5.1	4.5	4.6	4.4	3.9	3.5	2.8	3.0	4.5	6.2
4	2.7	3.0	2.5	2.9	2.8	2.9	2.6	3.2	2.5	2.8	3.6	3.8	4.2	5.6	5.1	7.1	8.2	7.1	4.4	4.0	4.9	5.4	6.4	5.9	4.3	8.2
5	6.4	5.1	5.1	5.6	5.7	5.1	4.8	4.7	4.7	6.5	6.1	5.3	5.0	5.3	15.3	7.9	9.0	7.4	7.5	8.3	8.4	9.1	10.3	11.6	7.1	15.3
6	11.7	12.2	12.3	10.4	10.0	11.8	11.1	10.8	11.8	12.7	13.3	11.5	11.9	10.7	9.5	8.6	8.4	9.6	11.6	13.9	11.2	10.6	10.1	7.2	11.0	13.9
7	5.7	4.5	3.7	3.0	2.9	2.7	2.7	3.5	3.5	3.8	4.5	5.7	6.1	5.0	6.3	6.3	3.8	2.2	1.9	2.0	2.5	2.1	2.2	3.7	3.7	6.3
8	9.3	10.9	11.7	8.6	6.8	11.7	11.0	9.6	8.8	7.5	5.2	3.8	4.5	4.7	4.4	4.9	4.9	5.7	6.8	5.8	6.0	6.8	9.1	8.7	7.4	11.7
9	8.1	8.4	8.2	9.5	10.6	9.9	9.9	11.9	12.3	12.9	10.1	9.2	8.4	8.7	8.8	7.9	8.8	9.9	9.1	9.5	11.1	11.3	12.6	11.5	9.9	12.9
10	10.6	9.4	10.5	10.6	9.9	8.6	7.3	8.1	12.8	15.8	9.5	9.7	10.7	15.5	10.7	9.3	8.9	9.8	8.5	8.7	10.4	8.8	9.7	9.8	10.1	15.8
11	9.3	9.6	9.0	9.5	11.6	10.9	10.3	10.5	10.3	13.6	14.1	17.8	30.3	30.8	15.5	11.4	12.1	13.3	13.9	14.5	13.5	13.3	14.0	14.9	13.9	30.8
12	14.1	13.5	12.9	13.4	16.1	16.3	16.7	16.3	16.6	18.5	16.0	18.9	30.3	22.7	22.0	17.7	13.3	15.1	15.7	14.6	14.7	15.7	15.1	15.5	16.7	30.3
13	16.3	16.8	16.6	16.9	16.9	15.3	14.9	15.6	16.6	25.3	22.5	20.1	19.1	17.9	17.6	15.1	16.9	16.2	17.1	18.0	18.7	15.0	15.1	14.9	17.3	25.3
14	10.1	7.7	6.1	3.8	2.7	2.0	1.7	1.3	1.6	3.6	5.3	5.1	4.8	5.7	7.7	7.8	7.0	6.7	9.5	16.5	23.2	26.1	28.1	34.7	9.5	34.7
15	37.9	38.4	36.3	36.4	35.6	33.9	31.1	31.1	33.6	34.7	33.3	29.6	24.5	22.4	23.5	21.3	23.6	26.1	29.1	29.6	32.4	34.2	36.7	35.3	31.3	38.4
16	37.3	36.7	37.6	38.2	37.5	40.2	37.0	36.6	38.4	36.3	31.8	26.3	24.4	18.9	14.9	9.9	9.0	6.9	6.4	7.2	6.9	6.7	10.2	13.7	23.7	40.2
17	13.5	14.9	17.7	20.8	17.8	16.8	16.1	13.9	14.1	14.5	13.5	12.2	11.3	11.5	12.0	12.4	11.7	12.4	13.5	13.4	14.2	13.2	15.7	14.0	14.2	20.8
18	13.9	13.9	13.2	13.7	14.0	13.6	12.0	10.9	10.2	10.7	9.9	9.5	9.3	8.6	7.3	5.5	4.1	3.3	3.5	4.2	4.0	4.1	4.1	3.9	8.6	14.0
19	3.8	3.9	4.3	4.2	4.2	4.3	4.3	4.5	4.9	4.9	5.3	5.4	5.6	5.3	4.8	4.7	4.4	3.4	3.1	3.0	2.8	2.7	3.1	3.8	4.2	5.6
20	4.3	4.5	4.6	4.7	4.5	4.5	4.4	4.1	4.9	5.3	5.6	5.4	4.6	4.2	4.4	6.2	2.0	2.4	2.3	2.2	2.8	4.1	3.5	3.1	4.1	6.2
21	3.0	2.7	2.6	2.5	3.2	4.5	6.3	4.9	4.3	6.9	5.6	3.7	2.9	3.7	4.2	4.2	3.1	1.9	1.0	1.1	1.9	1.6	2.0	1.8	3.3	6.9
22	1.7	1.5	1.3	1.5	1.3	1.3	1.6	2.2	2.2	3.2	4.1	3.4	2.3	2.4	2.9	4.3	3.5	2.7	1.5	2.3	3.3	2.9	2.7	2.6	2.4	4.3
23	2.5	2.9	2.6	10.4	14.9	12.8	10.0	6.7	5.0	5.1	4.7	4.1	4.2	4.5	5.0	4.7	6.1	5.5	6.1	5.0	3.6	3.1	2.3	5.6	14.9	
24	2.5	2.6	2.4	2.2	2.5	2.1	2.6	4.3	5.9	6.8	5.7	5.6	6.0	4.7	3.8	3.7	3.4	3.7	3.1	3.0	5.0	5.6	4.6	6.0	4.1	6.8
25	6.6	6.5	6.5	6.5	7.0	6.4	7.0	6.6	7.3	6.4	7.7	6.6	6.1	6.5	6.2	7.1	8.5	8.4	8.4	7.8	7.1	10.8	12.0	7.6	12.0	
26	11.2	10.5	11.4	13.0	12.0	10.9	9.7	8.6	11.5	10.5	9.3	11.5	9.2	6.3	5.4	5.3	3.9	2.5	2.2	3.0	3.3	3.2	4.0	3.7	7.6	13.0
27	4.0	4.2	3.2	2.3	2.4	2.2	3.5	4.5	6.4	6.8	7.6	5.2	5.2	6.4	7.7	6.3	4.2	3.1	1.9	3.3	4.7	4.6	3.5	4.5	7.7	
28	6.1	6.5	9.4	6.4	6.5	6.4	6.3	6.3	7.1	7.8	9.5	12.9	11.1	7.6	7.0	6.4	5.6	4.8	7.0	7.9	6.9	4.0	3.4	3.0	6.9	12.9
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	10.4	10.4	10.4	10.4	10.3	10.2	9.7	9.6	10.1	10.9	10.2	9.7	10.1	9.5	8.9	8.2	7.9	7.7	7.9	8.2	8.7	9.0	9.6	9.8		
MAX	37.9	38.4	37.6	38.2	37.5	40.2	37.0	36.6	38.4	36.3	33.3	29.6	30.3	30.8	23.5	21.3	23.6	26.1	29.1	29.6	32.4	34.2	36.7	35.3		



Number of 24HR Exceedences	1	Proposed Guideline
Number of Non-Zero Readings	672	
Maximum 1-HR Average	40.2 UG/M3	
Maximum 24-HR Average	31.3 UG/M3	
Izs Calibration Time		
Down Time	0	
Standard Deviation	7.673	
Opperational Time		
Opperational Uptime		
Monthly Average		
	672 HRS	
	100.0 %	
	9.5 UG/M3	

West PM₁₀ ($\mu\text{g}/\text{m}^3$) – February 2019

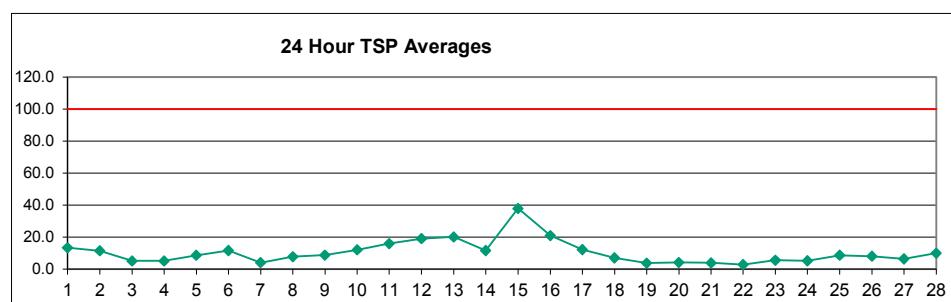
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	18.5	22.8	21.1	15.9	9.4	5.7	5.2	6.7	8.9	9.1	10.6	8.4	8.6	9.5	11.1	13.6	16.8	19.2	18.1	17.7	17.7	25.1	29.5	28.7	14.9	29.5
2	32.1	25.9	22.7	21.2	21.7	26.2	23.8	29.1	19.4	15.0	13.3	11.5	10.2	9.4	8.4	6.1	6.3	6.0	6.0	5.9	6.4	6.3	5.6	5.5	14.3	32.1
3	4.2	4.9	4.8	5.8	6.0	4.3	4.8	4.2	5.0	6.6	7.5	8.3	7.0	7.4	7.5	6.9	6.6	5.6	5.8	5.8	5.0	4.5	3.4	3.5	5.6	8.3
4	3.1	3.5	2.6	3.3	3.1	3.3	2.8	3.8	2.7	3.4	4.7	5.0	5.8	8.1	7.4	10.6	12.3	10.5	5.8	4.9	6.3	6.9	8.0	7.6	5.6	12.3
5	8.9	6.5	6.1	6.6	6.7	6.2	6.1	5.9	6.2	9.1	8.6	7.5	6.8	7.2	19.6	11.5	13.3	11.0	10.2	10.7	10.4	12.3	14.1	16.0	9.5	19.6
6	16.3	16.9	16.9	13.9	13.6	15.7	15.4	14.2	15.2	16.3	17.9	14.9	15.3	13.6	11.7	10.6	10.5	13.1	16.0	19.3	14.9	13.8	11.6	7.6	14.4	19.3
7	5.9	4.6	3.8	3.3	3.4	3.0	3.1	3.0	4.6	4.7	5.3	6.0	7.8	8.7	7.1	9.0	9.2	5.4	2.7	2.2	2.4	3.0	2.4	2.5	4.7	9.2
8	12.9	15.3	16.4	11.8	9.3	13.7	12.8	11.8	11.1	9.6	6.6	5.1	6.2	6.5	6.2	6.8	6.1	6.7	7.8	6.7	6.7	7.7	10.0	9.7	9.3	16.4
9	8.6	9.0	8.5	9.7	10.9	10.6	11.0	14.4	13.3	13.9	11.7	11.3	9.9	11.0	11.4	9.8	11.4	13.4	11.0	11.6	14.0	14.2	16.7	15.6	11.8	16.7
10	13.5	11.4	12.4	12.5	11.3	9.5	7.8	9.3	16.6	19.9	11.7	11.8	14.1	21.1	13.9	12.3	11.2	12.9	11.3	11.7	14.2	11.1	13.1	13.0	12.8	21.1
11	12.0	12.9	10.6	11.4	15.8	14.1	12.2	12.2	12.3	17.7	19.1	23.8	38.1	41.9	20.6	14.9	15.6	16.5	18.0	19.9	18.3	18.2	18.9	21.2	18.2	41.9
12	19.4	17.9	16.3	16.6	20.7	20.7	22.9	22.7	22.6	25.8	21.9	24.4	42.0	30.9	30.1	23.6	16.7	19.1	19.8	19.7	19.3	20.0	18.9	18.5	22.1	42.0
13	20.7	20.3	19.1	20.1	21.7	18.1	17.4	18.2	20.3	32.6	28.3	27.7	25.3	23.1	21.8	19.1	20.8	20.0	21.1	22.1	24.4	21.0	18.5	15.7	21.6	32.6
14	10.1	7.8	6.1	3.8	2.7	2.0	1.7	1.3	1.7	4.8	7.7	7.3	7.0	8.2	11.0	11.6	10.4	9.6	12.2	21.9	32.6	37.6	40.3	48.9	12.8	48.9
15	50.2	52.3	48.8	49.7	47.2	42.0	38.2	40.7	47.1	42.7	40.9	38.8	33.3	29.7	29.7	28.4	31.0	32.7	38.8	39.7	44.0	45.0	51.9	49.6	41.4	52.3
16	52.8	51.4	51.4	46.6	48.6	58.3	49.3	42.5	46.6	43.2	35.4	32.3	29.9	21.0	16.6	10.8	9.6	7.3	7.1	8.7	7.9	7.1	10.9	14.0	29.5	58.3
17	13.8	15.1	17.9	21.0	18.1	17.1	16.4	14.2	14.8	17.1	14.9	15.0	12.4	12.6	13.8	13.7	12.9	15.1	16.9	18.7	20.2	18.3	22.0	19.4	16.3	22.0
18	17.9	16.7	15.2	16.1	16.2	15.5	12.9	11.4	10.7	12.3	11.5	10.9	11.1	10.0	9.0	6.9	5.1	3.9	4.0	4.9	4.8	4.9	4.9	4.5	10.1	17.9
19	4.3	4.3	5.0	4.6	4.5	4.6	4.5	4.9	5.7	5.7	6.8	7.1	7.4	7.2	6.7	6.5	5.9	4.1	3.6	3.4	3.2	2.8	3.2	3.9	5.0	7.4
20	4.4	4.6	4.9	5.0	4.6	4.7	4.6	4.3	6.2	7.3	7.9	7.4	6.0	5.8	6.2	9.1	2.8	3.0	3.2	2.8	3.4	5.3	4.7	4.2	5.1	9.1
21	3.5	3.0	2.7	2.8	3.9	6.4	9.4	6.8	6.1	10.3	7.7	4.7	3.8	5.3	6.1	6.1	4.4	2.5	1.1	1.3	2.3	1.8	2.3	2.1	4.4	10.3
22	2.0	1.6	1.4	1.7	1.6	1.6	2.0	2.9	2.9	4.4	5.8	4.8	3.1	3.4	4.1	6.3	5.0	3.8	1.9	3.0	4.4	3.6	3.3	3.1	3.2	6.3
23	3.0	3.6	3.4	13.2	17.1	13.9	11.6	8.5	6.2	6.0	5.4	4.8	5.2	5.6	6.8	6.5	8.6	7.8	8.9	7.1	4.8	4.1	2.9	2.6	7.0	17.1
24	2.9	3.0	2.6	2.4	2.7	2.1	3.0	6.0	8.2	9.4	7.9	8.2	8.8	6.8	5.3	5.3	4.8	5.2	3.6	3.6	7.2	8.1	6.5	8.7	5.5	9.4
25	9.2	9.1	9.2	8.8	9.2	7.9	8.0	7.6	8.9	7.7	9.6	9.0	8.7	8.8	8.0	9.2	11.1	11.0	10.7	9.4	7.8	14.0	15.1	16.1	9.8	16.1
26	15.2	13.6	15.4	18.2	16.7	14.4	12.3	10.8	13.5	13.2	11.9	14.7	11.9	8.2	7.4	7.6	5.5	3.2	2.7	4.0	4.4	4.0	5.1	4.5	9.9	18.2
27	4.7	5.0	3.7	2.7	2.9	4.8	6.4	9.4	9.9	10.9	7.5	7.5	7.6	9.4	11.0	9.4	6.2	4.5	2.6	4.8	7.0	6.8	5.0	6.3	11.0	
28	9.1	9.2	14.1	9.5	9.7	9.4	9.3	8.8	9.8	10.8	12.6	16.4	13.9	10.3	9.7	8.9	8.1	7.2	10.3	10.9	10.0	5.6	4.3	3.9	9.7	16.4
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	13.5	13.3	13.0	12.8	12.8	12.6	11.9	11.9	12.7	13.9	13.0	12.7	13.1	12.5	11.7	10.8	10.4	10.1	10.1	10.7	11.5	11.9	12.7	12.7		
MAX	52.8	52.3	51.4	49.7	48.6	58.3	49.3	42.5	47.1	43.2	40.9	38.8	42.0	41.9	30.1	28.4	31.0	32.7	38.8	39.7	44.0	45.0	51.9	49.6		



Number of Non-Zero Readings	672
Maximum 1-HR Average	58.3 UG/M3
Maximum 24-HR Average	41.4 UG/M3
IHZ Calibration Time	
Down Time	0
Standard Deviation	10.1
OpperatioEl Time	672 HRS
OpperatioEl Uptime	100.0 %
Monthly Average	12.2 UG/M3

West TSP ($\mu\text{g}/\text{m}^3$) – February 2019

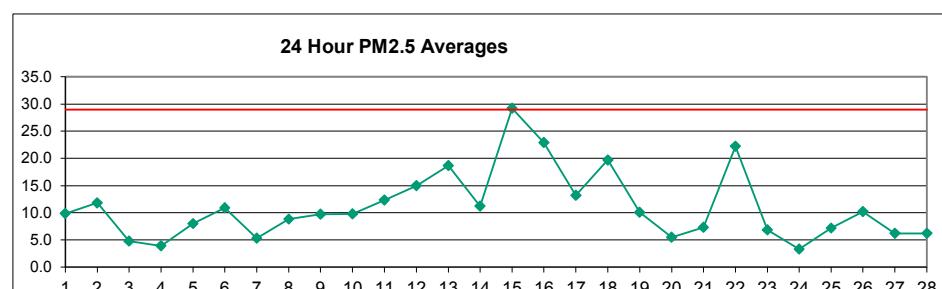
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	13.5	15.1	13.8	10.3	6.1	3.7	3.5	5.4	8.3	10.3	11.8	9.7	9.9	10.7	12.7	15.6	18.0	18.1	17.9	18.4	20.0	21.9	23.5	25.2	13.5	25.2
2	24.4	19.5	16.8	16.4	15.1	18.9	17.1	24.5	18.2	15.0	12.2	11.7	8.8	8.6	7.1	4.5	4.4	4.6	4.9	4.7	5.2	4.8	4.4	4.3	11.5	24.5
3	2.9	3.9	3.8	4.9	5.0	3.2	3.7	3.1	4.3	6.3	7.8	8.6	7.2	7.6	7.6	7.0	6.5	5.0	5.5	5.8	4.5	3.7	2.5	2.6	5.1	8.6
4	2.2	2.5	1.8	2.4	2.3	2.5	1.8	3.1	1.9	2.8	4.2	4.6	5.7	8.7	7.7	12.2	14.2	11.6	4.7	3.5	4.8	5.2	5.6	5.6	5.1	14.2
5	7.2	4.6	4.2	4.5	4.6	4.6	4.6	4.5	4.7	8.0	7.5	6.9	6.2	6.8	21.5	13.1	15.4	12.4	9.8	11.2	11.8	11.5	11.4	12.3	8.7	21.5
6	12.4	12.5	12.5	10.0	10.2	14.7	12.0	10.1	11.0	14.2	16.0	13.4	12.9	11.3	10.2	10.6	10.8	10.5	12.6	15.2	12.2	9.6	8.2	5.0	11.6	16.0
7	3.8	3.0	2.5	2.2	2.5	2.1	2.3	2.2	4.0	4.1	4.7	5.6	7.7	9.0	7.2	9.6	10.1	5.1	2.0	1.5	1.6	2.1	1.7	1.7	4.1	10.1
8	10.2	12.5	12.8	8.7	7.9	9.7	9.1	8.6	10.4	8.5	5.7	5.1	6.6	7.2	6.8	7.3	5.5	5.5	7.1	5.8	5.3	5.7	7.5	8.6	7.8	12.8
9	6.3	6.7	5.7	6.5	7.4	7.6	8.0	11.0	9.6	10.0	8.8	9.1	7.7	10.1	10.6	7.6	9.0	10.9	7.6	8.0	9.6	9.9	11.9	11.2	8.8	11.9
10	9.2	7.7	10.4	11.0	9.1	6.9	5.1	7.4	17.4	22.9	13.2	13.1	13.4	20.3	14.7	12.2	12.3	13.1	10.5	10.4	12.5	12.1	12.0	12.7	12.1	22.9
11	9.6	9.8	7.1	7.9	13.6	10.6	8.2	8.2	9.6	18.7	18.7	23.0	29.5	34.7	17.0	15.4	16.6	18.9	19.0	18.6	17.1	15.9	16.8	17.5	15.9	34.7
12	14.2	13.4	11.0	11.5	14.2	15.3	16.9	17.9	20.9	24.5	20.1	21.8	38.7	27.8	29.8	23.7	18.8	21.4	22.4	18.6	15.1	14.4	14.0	12.8	19.1	38.7
13	14.6	14.0	12.8	14.5	16.5	13.9	14.6	14.2	15.7	35.9	32.1	26.8	24.7	24.8	25.0	21.2	24.0	23.0	24.2	25.7	25.3	17.5	12.7	20.2	20.2	35.9
14	6.5	5.0	3.9	2.5	1.7	1.3	1.1	0.9	1.1	4.4	8.1	7.8	7.4	8.9	12.5	13.4	11.7	9.8	12.3	22.7	30.0	32.8	32.2	40.9	11.6	40.9
15	39.1	43.6	37.3	35.6	32.8	29.6	26.4	29.4	43.2	49.4	47.5	40.7	33.0	28.2	33.5	29.8	33.6	37.1	40.6	40.8	44.6	48.6	48.5	35.6	37.9	49.4
16	38.0	37.0	35.0	30.9	33.7	45.1	33.9	28.5	32.3	30.9	24.8	25.1	24.4	15.0	12.2	7.6	6.5	4.9	5.1	6.8	5.5	4.8	7.3	9.1	21.0	45.1
17	9.0	9.9	11.6	13.7	11.8	11.2	10.9	9.5	9.9	13.1	10.7	12.5	8.7	8.9	10.1	9.8	9.0	15.2	19.0	17.0	16.1	14.3	19.0	14.5	12.3	19.0
18	12.6	11.1	10.0	10.7	10.7	10.3	8.4	7.5	7.0	8.6	8.3	7.9	8.4	7.3	6.9	5.4	3.8	2.7	2.9	3.4	3.5	3.6	3.6	3.2	7.0	12.6
19	3.0	3.0	3.6	3.0	2.9	3.0	3.3	4.2	4.2	5.8	6.2	6.3	6.5	6.7	5.7	4.8	2.9	2.5	2.4	2.2	1.9	2.1	2.5	3.8	6.7	
20	2.8	3.0	3.2	3.3	3.0	3.1	3.0	2.8	5.4	6.7	7.6	7.1	5.1	5.2	5.5	8.8	2.4	2.3	2.8	2.3	2.5	4.5	4.2	3.8	4.2	8.8
21	2.6	2.0	1.8	1.9	2.8	5.8	9.0	5.7	5.5	10.8	6.5	3.8	3.0	5.0	6.3	6.8	4.6	2.3	0.8	1.0	1.6	1.2	1.6	1.4	3.9	10.8
22	1.4	1.1	1.0	1.3	1.2	1.2	1.7	2.8	2.7	4.3	5.9	5.0	3.0	3.4	4.1	6.7	5.0	3.5	1.4	2.4	3.6	2.8	2.4	2.1	2.9	6.7
23	2.1	2.6	2.6	9.2	11.2	9.1	7.8	6.0	4.5	4.2	4.0	3.7	4.1	4.4	6.1	6.2	9.0	8.1	9.0	6.9	4.5	3.7	2.3	1.9	5.6	11.2
24	2.0	2.1	1.8	1.6	1.8	1.4	2.0	5.3	8.2	10.5	8.5	8.9	9.8	7.2	5.0	5.1	4.6	4.9	2.7	2.7	6.8	8.1	5.6	8.5	5.2	10.5
25	9.7	9.2	8.4	7.9	7.6	5.7	5.4	5.3	6.8	5.8	10.2	9.5	8.9	8.3	7.2	8.8	9.4	9.1	8.0	7.0	5.1	13.3	16.8	15.4	8.7	16.8
26	12.6	10.3	11.6	14.7	12.8	10.7	9.2	7.6	9.2	9.8	10.9	14.6	11.0	7.7	7.0	7.7	5.3	2.6	2.1	3.5	3.6	2.8	3.6	3.1	8.1	14.7
27	3.1	3.3	2.5	1.8	2.0	1.9	4.2	6.1	10.1	10.6	12.0	7.7	7.9	8.1	10.5	12.4	10.0	6.8	4.7	2.4	5.3	7.6	7.3	5.2	6.4	12.4
28	10.1	10.1	15.9	9.3	9.2	8.8	8.7	7.8	9.0	11.4	13.7	18.6	15.6	10.7	10.2	9.0	8.1	8.0	11.4	11.9	11.3	5.2	3.1	3.0	10.0	18.6
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	10.2	9.9	9.5	9.2	9.3	9.4	8.6	8.9	10.5	13.1	12.4	12.1	12.0	11.5	11.5	10.8	10.5	10.0	9.8	10.0	10.4	10.3	10.4	10.0		
MAX	39.1	43.6	37.3	35.6	33.7	45.1	33.9	29.4	43.2	49.4	47.5	40.7	38.7	34.7	33.5	29.8	33.6	37.1	40.6	40.8	44.6	48.6	48.5	40.9		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	672	
Maximum 1-HR Average	49.4 UG/M3	
Maximum 24-HR Average	37.9 UG/M3	
Izs Calibration Time		
Down Time	0	Operational Time
Standard Deviation	8.831	Operational Uptime
		672 HRS
		100.0 %
		10.4 UG/M3

Berm PM_{2.5} ($\mu\text{g}/\text{m}^3$) – February 2019

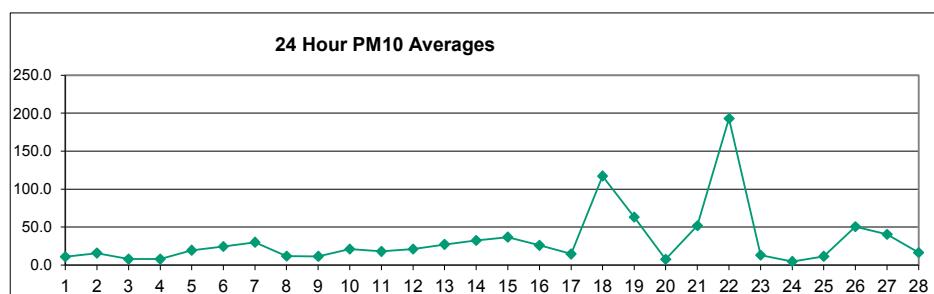
DAY	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	10.9	16.9	19.3	16.0	9.6	4.8	4.0	4.6	6.9	6.3	5.3	6.4	6.8	7.3	9.2	10.1	9.4	10.4	10.5	11.0	12.2	12.3	12.5	14.4	9.9	19.3	
2	14.0	11.8	11.5	12.2	18.4	16.4	18.3	19.3	14.7	17.3	10.3	12.9	15.6	10.3	11.3	13.3	10.0	7.8	9.5	8.4	6.0	5.9	4.5	4.3	11.8	19.3	
3	4.0	5.1	5.1	5.1	5.6	5.1	5.2	4.7	4.9	5.1	5.1	5.3	4.5	4.7	4.5	4.2	4.1	5.5	5.9	5.8	4.3	4.1	3.6	3.0	4.8	5.9	
4	4.5	3.3	3.3	3.5	3.6	3.3	2.8	3.0	4.0	2.8	4.3	4.2	3.8	3.8	4.5	4.5	4.3	4.0	6.3	6.9	6.0	3.2	2.6	2.7	3.6	3.9	6.9
5	4.2	5.4	6.6	6.5	5.7	4.8	4.6	5.2	23.0	16.0	7.7	12.4	8.1	9.3	8.1	4.3	6.7	4.9	6.9	8.0	7.9	7.9	8.7	9.3	8.0	23.0	
6	10.0	11.2	12.1	11.7	13.7	12.5	13.1	12.0	15.9	16.8	15.4	20.5	15.7	10.6	8.2	6.1	5.6	5.2	6.4	7.5	7.7	11.1	7.5	5.8	10.9	20.5	
7	4.9	4.8	4.4	3.9	2.9	2.8	3.8	4.6	5.4	7.2	3.2	4.0	5.3	23.7	13.1	5.0	4.3	3.4	3.8	2.2	3.1	2.0	2.1	7.1	5.3	23.7	
8	3.8	3.9	8.2	10.1	18.0	15.7	14.1	13.9	9.3	10.2	7.0	4.7	7.5	4.9	5.4	4.9	7.8	7.9	8.5	8.4	8.5	9.0	9.8	10.2	8.8	18.0	
9	9.8	10.0	10.5	10.0	11.2	10.4	10.4	10.5	10.1	9.6	9.6	9.4	9.2	8.8	8.1	8.2	8.8	10.7	10.0	11.9	10.0	6.9	8.6	11.0	9.7	11.9	
10	10.3	10.6	11.8	12.1	9.6	7.8	6.3	8.2	9.8	9.7	13.7	10.6	9.2	9.3	8.8	8.1	8.3	7.9	7.5	7.6	11.8	12.1	12.6	10.9	9.8	13.7	
11	8.8	8.8	10.0	8.3	8.5	9.6	9.9	9.1	7.9	9.1	13.9	23.5	32.4	14.5	11.9	9.8	13.7	13.7	12.6	13.4	12.1	11.3	10.8	12.2	12.3	32.4	
12	11.4	13.7	15.3	19.0	16.4	16.6	16.4	15.7	12.9	12.3	13.3	13.2	14.5	13.5	12.2	11.4	12.6	15.4	18.7	18.5	17.2	17.9	15.4	16.4	15.0	19.0	
13	16.0	13.6	15.7	15.4	12.8	11.0	11.8	14.0	20.0	24.7	19.5	15.5	13.2	13.5	11.8	12.9	12.2	14.0	20.0	20.0	58.1	20.2	21.9	40.8	18.7	58.1	
14	14.9	8.7	6.7	3.8	2.6	2.7	2.7	2.0	2.8	7.0	11.9	20.5	21.1	Y	4.6	4.1	5.6	6.0	10.7	18.3	22.3	22.0	24.3	32.6	11.2	32.6	
15	33.8	35.7	34.9	34.6	34.5	33.3	32.5	30.4	27.6	28.7	27.9	22.5	18.1	17.4	21.2	19.1	27.1	32.6	28.6	26.9	31.1	35.1	32.3	34.6	29.2	35.7	
16	34.4	32.6	34.3	36.7	34.3	34.8	35.7	38.9	35.4	31.7	28.8	29.0	24.2	16.0	12.4	9.3	8.7	8.5	9.1	8.6	8.2	9.1	15.7	14.1	22.9	38.9	
17	13.8	15.7	19.0	18.8	14.9	12.3	12.7	14.8	14.2	13.4	13.5	12.1	11.0	11.5	11.1	11.2	10.7	10.8	12.1	13.2	11.4	11.1	13.0	14.5	13.2	19.0	
18	15.1	12.8	11.0	13.9	13.7	13.5	12.2	12.6	15.3	15.0	14.7	12.8	12.4	13.5	34.4	45.7	44.6	27.9	18.4	14.8	24.2	17.6	32.5	24.4	19.7	45.7	
19	15.4	9.4	10.4	7.4	7.6	6.7	5.9	10.9	16.8	7.1	11.4	18.3	14.2	14.3	13.8	10.3	6.8	11.1	11.5	13.9	5.0	3.9	4.6	4.7	10.1	18.3	
20	3.8	4.5	4.7	5.4	5.2	5.2	6.7	7.4	9.0	10.7	7.5	8.5	6.4	7.5	9.1	6.2	3.0	2.0	2.0	1.7	3.5	4.6	3.5	3.1	5.5	10.7	
21	4.5	4.4	2.8	2.2	2.9	3.3	4.2	2.4	2.6	6.1	7.6	5.1	4.9	12.4	24.0	15.8	23.0	8.3	2.5	1.8	2.7	12.4	7.8	11.5	7.3	24.0	
22	27.6	10.4	22.5	14.8	19.0	22.9	16.0	18.3	46.8	68.9	26.1	35.6	46.9	31.3	32.6	25.0	21.8	17.7	10.5	9.1	3.0	2.3	2.3	2.3	22.2	68.9	
23	2.5	2.8	6.8	17.9	16.7	13.4	12.3	9.8	8.9	5.7	4.1	3.7	4.7	5.1	4.1	5.0	6.7	8.0	4.6	6.6	5.4	3.1	3.5	2.4	6.8	17.9	
24	4.6	3.0	2.5	2.7	2.3	1.9	2.5	2.6	5.2	4.5	2.8	3.5	3.3	3.1	3.1	2.9	2.9	3.3	3.9	3.8	4.6	4.1	3.1	3.7	3.3	5.2	
25	4.1	4.2	5.1	5.0	4.0	6.5	7.3	8.4	8.1	9.1	7.3	4.7	4.8	4.4	5.5	7.1	6.5	8.0	8.5	10.1	12.9	9.6	10.8	9.8	7.2	12.9	
26	10.3	8.4	8.2	8.6	11.8	8.5	11.1	8.6	9.8	20.2	16.3	36.8	25.1	14.7	14.0	9.9	2.9	2.6	1.8	1.9	2.5	2.9	3.6	4.0	10.2	36.8	
27	3.2	3.1	2.6	2.9	2.7	2.8	3.9	3.2	5.1	7.4	8.4	12.3	19.4	19.0	20.9	7.9	5.3	6.2	2.2	0.9	1.0	4.6	1.7	2.7	6.2	20.9	
28	3.5	3.7	3.5	5.9	5.7	7.3	12.7	5.5	6.0	14.7	12.6	13.3	5.4	4.0	3.2	4.0	4.9	3.4	2.2	2.1	3.5	7.4	6.1	8.8	6.2	14.7	
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	28	671	100%	
MEAN	10.9	10.0	11.0	11.2	11.2	10.6	10.7	10.7	12.8	14.2	11.8	13.6	13.1	11.4	11.8	10.2	10.3	9.6	9.1	9.4	10.8	9.8	10.2	11.5			
MAX	34.4	35.7	34.9	36.7	34.5	34.8	35.7	38.9	46.8	68.9	28.8	36.8	46.9	31.3	34.4	45.7	44.6	32.6	28.6	26.9	58.1	35.1	32.5	40.8			



Number of 24HR Exceedences	1	Proposed Guideline
Number of Non-Zero Readings	671	
Maximum 1-HR Average	68.9 UG/M3	
Maximum 24-HR Average	29.2 UG/M3	
Monthly Calibration Standard Deviation	8.7	Operational Time Operational Uptime Monthly Average
		671 HRS 99.9 % 11.1 UG/M3

Berm PM₁₀ (µg/m³) – February 2019

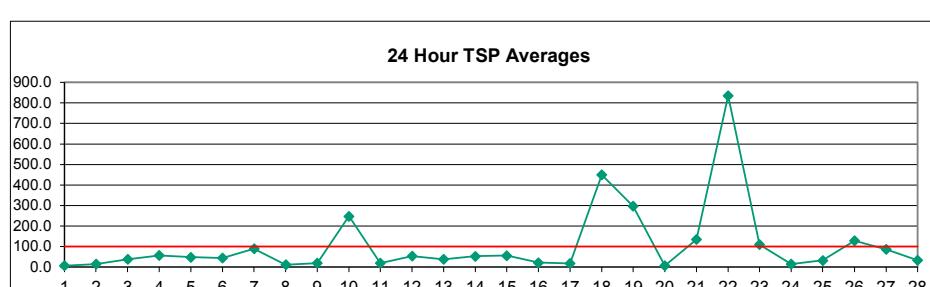
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.4	17.7	19.7	16.2	9.8	4.8	4.1	5.2	8.1	7.3	6.0	7.7	8.2	8.8	11.8	11.7	10.7	10.9	10.9	11.4	12.8	12.7	13.1	16.0	10.8	19.7
2	15.5	13.7	13.4	14.9	24.5	19.9	22.4	24.7	19.8	24.7	13.6	18.0	22.4	14.5	16.0	18.9	14.0	10.8	13.4	11.8	7.7	7.5	5.2	4.9	15.5	24.7
3	4.6	6.5	6.5	6.6	7.4	6.7	6.7	5.9	6.4	6.8	6.5	6.4	5.5	5.7	7.1	6.5	5.7	18.2	25.0	10.6	5.3	6.1	6.3	4.6	7.6	25.0
4	10.9	4.0	3.8	3.9	4.3	4.5	3.1	4.7	9.4	3.2	10.1	10.3	5.8	6.3	14.0	11.0	5.9	15.7	19.6	13.7	3.3	2.7	2.9	10.1	7.6	19.6
5	6.1	6.8	7.9	7.6	6.8	5.6	5.5	6.6	32.9	26.9	34.2	103.3	55.3	27.8	24.2	7.1	30.6	9.7	10.6	12.1	9.1	8.6	10.5	10.4	19.4	103.3
6	11.9	14.2	15.2	14.2	18.5	18.5	19.4	17.4	23.6	25.1	47.6	155.5	80.6	28.2	13.8	11.2	7.5	6.5	7.3	8.4	10.9	15.6	9.0	6.4	24.4	155.5
7	6.8	10.7	11.8	14.8	6.6	7.0	14.6	28.1	36.4	57.2	8.3	17.5	23.1	214.6	106.7	32.6	29.6	17.5	19.8	6.9	15.5	4.5	5.7	15.7	29.7	214.6
8	5.3	5.2	11.3	13.9	26.1	21.5	19.1	17.9	10.7	12.5	9.6	6.7	10.9	6.8	7.7	7.0	10.4	10.1	11.0	11.3	11.3	11.1	10.8	12.1	11.7	26.1
9	11.4	11.5	12.2	10.9	12.3	11.3	11.6	11.7	11.3	10.1	10.0	11.7	10.8	11.4	9.0	9.9	11.2	17.2	10.8	12.3	10.4	7.6	13.2	13.9	11.4	17.2
10	13.4	14.5	15.1	16.4	12.0	8.8	6.9	9.6	12.3	19.5	96.4	23.0	13.4	17.6	16.2	12.5	10.2	8.5	8.4	7.9	40.0	48.5	52.4	19.8	21.0	96.4
11	10.4	9.7	13.2	9.4	9.6	11.0	11.8	10.5	8.2	11.1	20.0	34.8	48.7	35.7	28.1	13.4	28.9	21.1	13.1	14.0	12.6	16.7	16.1	16.1	17.7	48.7
12	14.7	18.5	22.1	27.5	22.6	23.0	21.6	21.0	14.8	12.8	13.9	18.2	32.9	25.7	20.9	19.2	19.1	24.3	25.5	24.2	21.6	22.7	18.1	19.3	21.0	32.9
13	18.0	14.5	18.2	18.0	14.3	11.4	12.2	17.2	25.9	37.1	28.8	22.1	18.3	20.7	14.8	20.2	14.9	28.3	56.0	29.8	87.1	30.1	32.1	60.7	27.1	87.1
14	19.8	10.8	8.2	4.6	3.1	3.3	3.5	2.6	3.8	28.0	87.1	166.1	177.1	Y	19.9	16.2	20.8	9.8	19.1	20.5	24.1	22.5	27.5	41.4	32.2	177.1
15	39.4	44.4	44.4	43.3	42.7	43.3	43.9	37.9	33.2	39.6	40.2	29.2	20.6	18.9	36.5	27.9	35.6	43.9	35.8	30.4	36.8	39.1	35.1	37.1	36.6	44.4
16	39.7	34.5	36.0	38.8	36.2	39.2	42.0	46.1	38.5	34.7	31.1	32.0	27.2	18.3	14.4	10.5	10.6	10.5	12.1	11.2	10.3	11.8	20.7	16.4	25.9	46.1
17	15.8	18.0	20.4	19.8	16.5	13.7	13.3	15.6	15.1	13.9	14.9	12.7	11.2	12.6	13.4	13.1	11.7	11.5	12.7	13.8	12.2	11.5	14.8	19.6	14.5	20.4
18	19.5	16.6	13.4	16.0	16.6	17.4	15.2	17.2	22.3	51.2	65.5	47.0	59.0	70.6	262.6	334.7	377.4	245.5	156.1	121.7	209.2	146.9	287.1	227.5	117.3	377.4
19	111.2	60.8	36.5	10.6	33.4	26.3	19.9	68.7	126.8	28.9	92.4	145.8	111.6	103.4	103.9	65.4	46.6	78.5	87.0	120.2	18.5	5.3	6.2	6.1	63.1	145.8
20	4.1	5.3	5.5	6.9	6.7	6.8	9.5	10.6	12.9	15.9	10.9	12.5	9.1	11.0	13.5	8.7	4.1	2.6	2.7	1.8	4.0	5.8	4.4	3.8	7.5	15.9
21	5.9	5.7	3.0	2.4	3.6	4.3	5.1	2.8	4.8	24.5	38.8	26.8	29.8	115.5	223.4	138.1	218.0	69.1	12.9	7.2	14.1	118.0	59.5	108.1	51.7	223.4
22	245.5	97.1	209.9	150.8	188.2	249.4	149.3	148.7	436.1	641.6	227.9	305.0	416.4	248.4	252.5	183.2	176.3	137.0	73.0	75.0	10.1	3.7	4.0	4.4	193.1	641.6
23	7.6	6.3	13.6	25.1	21.4	16.8	16.1	13.1	12.5	7.4	4.9	4.9	9.4	12.3	6.6	11.2	27.1	59.7	8.8	8.8	7.5	4.1	4.5	2.7	13.0	59.7
24	6.3	3.7	2.8	3.0	2.6	2.0	2.9	2.9	7.2	6.3	3.6	5.2	5.0	4.4	4.7	4.7	5.3	7.8	8.4	5.1	5.5	4.7	3.3	4.0	4.6	8.4
25	4.6	4.8	6.6	6.0	4.6	8.8	10.3	12.2	11.8	15.6	24.8	11.9	11.9	5.5	8.3	13.9	7.2	13.9	12.9	18.4	20.8	12.7	14.1	13.2	11.4	24.8
26	14.6	10.2	9.7	10.3	16.6	10.4	15.9	11.2	12.9	30.0	83.9	326.5	225.7	138.1	142.1	92.7	10.8	9.9	2.6	2.9	4.9	7.2	7.9	15.3	50.5	326.5
27	10.0	7.7	6.3	12.6	11.0	9.1	13.7	10.9	27.9	50.3	53.6	87.4	197.2	156.5	170.6	45.7	24.4	38.3	5.1	1.2	1.4	13.2	3.1	7.8	40.2	197.2
28	11.9	8.4	6.2	9.0	8.3	10.9	18.9	7.6	8.5	22.1	92.2	57.8	14.8	8.5	6.0	8.6	21.0	11.2	5.5	2.8	10.3	17.7	8.5	12.7	16.2	92.2
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	28	671	100%
MEAN	24.9	17.2	21.2	19.1	20.9	22.0	19.2	21.0	35.5	45.1	42.0	60.9	59.4	49.9	56.0	41.3	42.7	33.9	24.5	22.0	22.8	22.1	24.9	26.1		
MAX	245.5	97.1	209.9	150.8	188.2	249.4	149.3	148.7	436.1	641.6	227.9	326.5	416.4	248.4	262.6	334.7	377.4	245.5	156.1	121.7	209.2	146.9	287.1	227.5		



Number of Non-Zero Readings	671
Maximum 1-HR Average	641.6 UG/M3
Maximum 24-HR Average	193.1 UG/M3
Monthly Calibration Standard Deviation	59.49
Operational Time	671 HRS
Operational Uptime	99.9 %
Monthly Average	32.2 UG/M3

Berm TSP ($\mu\text{g}/\text{m}^3$) – February 2019

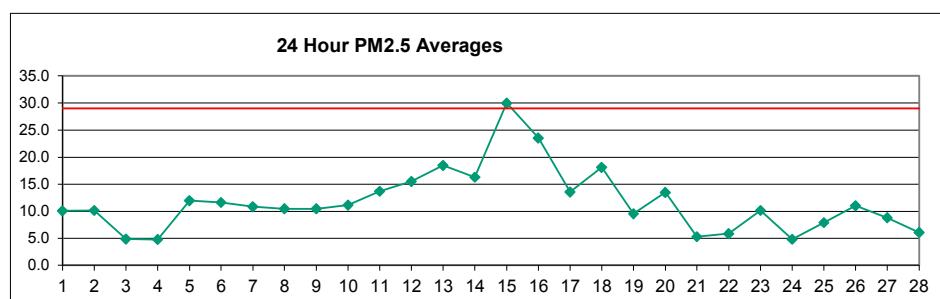
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	8.3	11.6	12.7	10.5	6.4	3.1	2.7	3.7	5.7	5.1	4.2	5.6	6.1	6.4	9.1	8.4	7.2	7.2	7.2	7.5	8.4	8.3	8.6	11.8	7.3	12.7
2	11.2	9.9	9.8	12.1	23.5	17.7	20.6	23.5	20.4	27.8	13.0	18.5	25.3	15.4	16.8	21.0	15.5	11.3	14.7	12.6	7.0	6.0	3.9	3.7	15.0	27.8
3	3.3	6.0	5.2	6.0	7.0	6.5	6.2	5.4	6.1	6.5	6.0	5.4	4.6	4.7	55.4	61.5	27.4	227.8	309.6	48.1	4.6	19.3	31.8	50.6	38.1	309.6
4	135.7	3.2	2.8	2.8	3.3	9.3	10.2	30.5	126.5	4.0	125.9	107.3	25.0	39.3	141.5	150.4	30.5	48.2	100.7	130.9	2.1	1.7	3.9	148.6	57.7	150.4
5	8.0	5.5	5.9	5.5	5.1	4.0	4.0	5.5	37.7	118.2	124.5	259.8	122.5	43.7	53.2	19.7	95.0	22.8	83.4	103.4	10.3	5.9	12.2	7.1	48.5	259.8
6	8.5	11.5	12.8	10.7	15.3	19.6	19.9	17.1	27.0	28.8	146.5	394.9	182.5	57.2	19.7	18.1	9.4	9.6	6.1	5.8	17.1	15.7	6.6	4.4	44.4	394.9
7	13.9	38.3	55.1	106.5	43.4	33.6	67.5	157.0	186.7	211.1	27.3	38.9	59.3	463.2	242.5	80.0	92.5	52.0	41.4	31.3	49.0	11.1	12.1	23.9	89.1	463.2
8	8.7	10.8	8.6	12.7	29.6	23.6	20.7	18.5	8.8	10.6	9.8	7.2	12.4	7.2	8.6	7.4	10.5	9.8	10.8	11.6	11.5	10.2	8.1	10.7	12.0	29.6
9	9.3	9.5	10.4	8.0	9.1	8.5	9.3	9.0	9.1	7.0	6.7	31.2	22.4	24.2	8.2	13.2	18.0	24.6	11.9	9.9	9.5	5.3	111.1	85.0	19.6	111.1
10	22.0	51.6	14.4	17.4	10.9	6.7	4.7	8.0	11.4	174.4	1884.0	231.4	43.0	241.4	188.7	95.9	41.9	14.6	9.7	11.3	751.0	884.2	1026.3	203.9	247.9	1884.0
11	8.0	7.3	10.4	6.3	7.2	8.0	8.4	7.0	5.3	8.2	18.0	36.1	43.9	52.7	53.6	19.8	55.6	34.1	9.6	9.1	8.4	19.6	25.2	15.1	19.9	55.6
12	12.0	16.1	23.2	27.9	20.8	20.2	19.2	19.0	11.1	8.6	15.7	34.1	139.4	72.5	163.8	169.7	139.5	242.5	26.8	25.2	21.6	23.3	16.4	17.4	53.6	242.5
13	14.2	10.4	12.3	12.7	10.2	7.6	8.0	14.4	22.5	42.2	31.4	26.9	40.2	44.0	65.0	156.5	25.1	40.6	77.3	28.3	100.7	32.8	33.4	68.3	38.5	156.5
14	19.2	9.2	7.0	3.8	2.3	2.7	3.2	2.3	3.7	51.3	138.3	309.0	325.5	Y	67.5	42.5	45.7	20.6	47.4	17.2	16.8	14.6	21.1	37.0	52.5	325.5
15	31.5	42.2	42.8	37.3	33.0	36.7	36.7	30.1	25.8	34.0	36.8	24.5	18.3	13.5	354.8	200.4	101.6	49.4	36.2	25.9	33.4	31.1	28.7	29.4	55.6	354.8
16	35.5	25.1	26.4	29.4	26.7	34.1	39.2	44.7	30.3	28.2	23.9	26.0	22.6	15.5	12.3	8.5	9.6	9.7	12.9	11.7	10.1	12.2	21.4	14.2	22.1	44.7
17	13.6	16.1	15.7	14.6	13.2	10.7	9.3	11.1	10.9	9.6	11.3	9.1	7.5	12.2	93.3	94.4	22.3	7.8	8.5	9.1	8.1	7.5	10.7	16.4	18.5	94.4
18	15.8	14.7	10.4	10.9	12.4	13.7	11.5	15.5	23.7	135.7	303.1	184.2	214.5	273.7	819.3	1047.3	1361.3	848.5	559.8	522.6	1075.1	836.3	1386.7	1094.8	449.6	1386.7
19	528.8	292.4	224.5	11.1	192.3	141.4	119.5	494.6	617.0	151.5	529.9	638.7	534.1	404.3	407.7	303.5	212.7	289.8	361.0	567.7	85.1	4.9	5.6	5.2	296.8	638.7
20	2.8	4.1	4.4	6.0	5.9	6.0	9.6	10.9	13.8	17.7	11.5	13.5	9.2	11.8	13.4	8.4	4.0	2.1	2.7	1.3	2.7	5.3	3.4	2.9	7.2	17.7
21	5.1	5.3	2.1	1.6	2.8	3.3	3.7	2.0	3.9	108.9	89.6	73.9	80.4	249.3	462.7	298.9	558.9	169.8	26.0	23.5	37.2	383.2	214.4	428.2	134.8	558.9
22	914.4	415.6	1302.3	1055.1	1285.4	2278.4	1401.4	777.3	1971.2	2619.7	1012.6	860.6	1273.9	646.9	680.8	430.0	372.1	303.2	175.6	222.2	20.9	3.7	8.3	7.0	834.9	2619.7
23	34.4	30.9	81.8	28.6	22.1	16.7	16.5	13.7	13.6	7.2	4.0	11.1	89.6	71.7	35.2	100.9	623.0	1318.0	80.3	8.9	8.2	3.8	4.1	2.0	109.4	1318.0
24	6.4	3.1	1.9	2.2	1.7	1.3	2.2	2.0	6.8	6.5	8.0	9.1	14.7	17.6	14.4	25.9	19.6	53.6	111.8	22.8	4.3	3.4	2.2	2.8	14.3	111.8
25	3.3	3.3	5.4	4.8	3.5	8.4	10.5	12.9	12.2	53.5	95.9	61.6	35.4	20.0	14.0	34.9	7.2	24.2	29.2	60.8	46.8	81.8	28.4	114.1	32.2	114.1
26	84.1	9.0	7.9	8.4	14.6	7.7	14.3	9.8	11.5	33.9	177.7	822.0	677.2	383.9	342.7	238.5	33.9	19.1	3.2	2.3	16.8	21.6	51.3	89.9	128.4	822.0
27	32.3	35.8	13.9	96.5	56.8	19.2	26.9	21.3	84.3	128.0	104.5	157.9	459.7	292.9	294.8	77.7	29.5	87.4	9.4	1.0	0.9	17.3	3.2	8.1	85.8	459.7
28	12.1	11.6	8.1	8.3	8.1	11.4	20.9	6.8	8.4	25.4	180.1	85.7	27.8	12.6	9.1	12.1	44.7	28.6	17.7	7.6	92.8	155.4	8.0	13.7	34.0	180.1
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	28	671	100%
MEAN	71.5	39.6	69.2	55.6	66.9	98.6	68.8	63.4	118.4	145.1	183.6	160.2	161.3	129.5	166.0	133.8	143.4	142.0	78.2	69.3	87.9	93.8	110.6	89.9		
MAX	914.4	415.6	1302.3	1055.1	1285.4	2278.4	1401.4	777.3	1971.2	2619.7	1884.0	860.6	1273.9	646.9	819.3	1047.3	1361.3	1318.0	559.8	567.7	1075.1	884.2	1386.7	1094.8		



Number of 24HR Exceedences		7 Proposed Guideline
Number of Non-Zero Readings		671
Maximum 1-HR Average		2619.7 UG/M3
Maximum 24-HR Average		834.9 UG/M3
IZS Calibration Time		671 HRS
Monthly Calibration		0 Operational Time
Standard Deviation		267.5 Operational Uptime
		106.1 UG/M3 Monthly Average

Entrance PM_{2.5} ($\mu\text{g}/\text{m}^3$) – February 2019

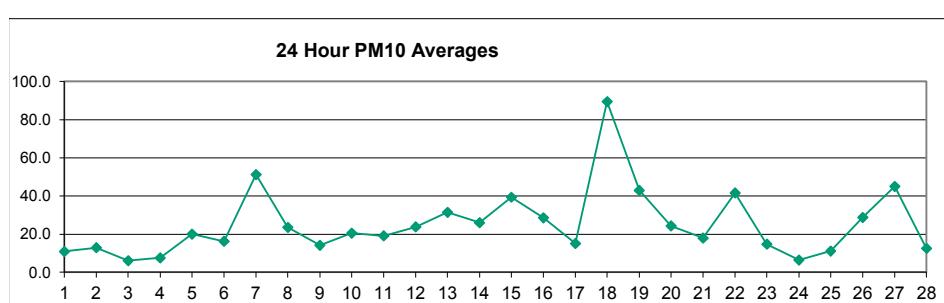
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	13.5	19.3	19.9	18.3	10.7	4.9	4.0	4.3	6.4	6.0	4.6	5.7	6.0	6.6	8.0	9.5	9.6	10.8	10.5	10.7	12.5	12.8	12.6	14.8	10.1	19.9
2	14.4	11.6	12.3	12.3	13.5	14.5	16.5	17.9	13.1	14.3	9.0	9.1	9.0	7.4	6.6	8.5	9.4	7.4	8.8	7.3	6.1	5.3	4.7	4.2	10.1	17.9
3	3.8	4.1	4.6	4.9	6.1	6.0	5.2	5.0	5.2	4.9	5.2	5.5	4.7	5.4	4.5	5.0	4.9	6.2	5.9	4.9	4.2	3.5	3.7	3.8	4.9	6.2
4	5.8	4.2	3.3	3.3	3.5	3.9	3.6	8.1	3.6	4.3	5.1	4.3	4.2	3.6	4.1	4.1	4.4	4.6	4.9	5.5	5.5	4.5	8.6	7.3	4.8	8.6
5	7.7	8.6	9.4	10.6	10.4	11.7	41.3	23.5	28.6	19.5	11.7	6.9	3.7	8.8	9.0	5.6	6.0	5.7	8.4	9.5	9.3	8.7	9.8	12.3	12.0	41.3
6	13.1	13.1	12.9	12.7	12.5	11.7	11.3	14.4	13.1	13.3	12.1	10.8	12.3	9.9	8.5	7.2	9.8	13.5	10.4	12.5	10.7	11.7	12.6	9.2	11.6	14.4
7	8.9	11.9	8.9	9.5	5.9	7.1	11.8	12.7	12.2	17.7	14.7	14.7	9.7	10.5	8.6	11.4	25.0	15.5	11.7	7.2	5.2	5.6	3.8	10.3	10.8	25.0
8	11.2	11.4	15.2	12.7	19.0	19.2	15.8	15.2	11.4	12.5	7.4	5.7	7.4	5.6	6.3	4.7	8.8	8.3	8.4	7.5	8.3	8.7	9.8	10.3	10.5	19.2
9	9.8	11.4	11.4	11.3	11.7	10.6	10.4	10.3	10.0	10.4	11.1	9.4	9.1	8.7	8.2	8.2	8.6	9.9	10.3	11.9	12.2	13.7	11.5	10.7	10.5	13.7
10	12.4	10.7	17.6	15.9	13.5	10.9	12.3	9.2	13.3	10.7	10.7	12.1	11.3	9.5	8.8	9.9	9.4	9.1	8.6	8.2	11.1	12.3	10.2	9.8	11.1	17.6
11	9.4	8.7	8.5	10.1	9.8	10.1	10.7	11.6	13.9	12.7	13.0	34.0	24.2	16.1	11.5	10.2	11.5	13.6	13.9	13.8	13.4	15.9	16.0	16.8	13.7	34.0
12	16.2	15.5	13.5	14.2	14.0	16.4	15.4	14.6	16.3	14.5	14.8	14.4	15.3	15.4	16.3	13.8	14.6	15.8	15.7	16.7	17.3	18.3	17.3	16.0	15.5	18.3
13	16.5	15.6	14.5	15.1	14.6	14.7	16.7	20.1	24.9	21.6	16.4	18.1	16.3	15.4	13.4	15.6	15.9	17.8	28.9	23.3	24.0	21.5	18.9	23.2	18.5	28.9
14	25.4	25.4	20.8	22.1	27.2	16.6	13.6	17.1	17.8	23.1	15.8	4.8	2.5	2.9	3.7	3.0	4.7	8.1	10.0	17.9	22.8	23.0	27.4	35.4	16.3	35.4
15	36.6	34.9	33.0	36.1	35.2	33.1	31.4	29.4	33.8	31.1	28.0	23.1	20.9	19.3	23.9	21.3	26.9	31.0	29.9	29.1	31.6	29.9	32.4	38.1	30.0	38.1
16	33.7	33.7	36.0	34.4	33.2	33.4	35.4	39.0	37.2	37.0	33.5	30.5	24.5	17.5	12.9	10.1	8.7	9.6	8.8	9.1	8.5	9.3	14.7	14.7	23.6	39.0
17	13.7	14.9	18.3	18.7	14.9	11.8	12.1	14.1	13.9	16.0	13.7	13.3	12.5	12.4	12.4	13.2	11.5	11.4	12.2	12.8	12.4	13.0	13.0	14.1	13.6	18.7
18	15.5	14.3	13.3	13.3	13.3	15.0	48.4	28.3	31.1	30.5	27.3	24.3	19.2	10.5	7.7	8.0	10.5	10.7	10.5	19.4	22.4	19.7	8.7	18.1	48.4	18.1
19	8.3	12.3	13.2	6.9	6.8	6.4	6.8	19.7	19.1	7.2	9.7	16.6	11.0	6.4	8.8	4.9	3.7	4.5	3.7	4.8	4.4	3.5	8.1	32.1	9.5	32.1
20	23.4	31.9	26.6	22.4	20.3	11.7	18.0	18.4	19.1	18.5	14.4	15.7	10.2	6.3	6.4	7.8	7.8	1.9	7.9	4.8	5.8	14.5	6.2	3.3	13.5	31.9
21	4.5	3.7	3.0	3.3	3.9	4.4	4.8	8.4	8.2	7.8	9.2	7.8	6.0	5.8	3.4	2.6	2.7	3.8	2.6	1.6	4.9	3.3	8.4	5.3	13.3	
22	3.7	4.0	12.2	6.2	5.3	8.6	7.1	5.8	7.6	13.9	4.9	4.2	6.3	4.5	5.8	2.6	2.1	2.2	2.5	2.4	2.9	7.4	9.6	8.5	5.9	13.9
23	6.8	4.7	4.9	18.7	18.5	15.7	12.2	8.8	9.1	6.5	5.8	5.7	4.2	4.7	4.4	4.2	7.6	9.8	13.1	15.7	12.4	16.4	12.0	21.4	10.1	
24	5.4	3.5	6.7	3.6	6.8	6.1	5.3	9.7	6.6	6.5	5.0	3.6	3.7	3.7	3.0	2.8	2.4	3.1	3.7	4.9	4.6	4.8	4.6	5.4	4.8	9.7
25	6.3	6.3	6.6	7.0	5.5	5.6	6.8	11.0	10.3	5.9	7.7	5.3	4.6	5.1	5.4	6.4	6.7	7.1	7.3	9.2	12.5	14.4	15.4	11.0	7.9	15.4
26	13.7	12.1	17.5	15.4	13.5	12.9	16.6	21.3	12.4	13.7	10.4	9.2	7.9	6.6	3.9	2.6	4.9	3.1	4.3	5.6	6.8	11.7	21.6	16.3	11.0	21.6
27	17.0	16.8	17.6	19.3	16.1	7.5	12.6	14.0	16.7	15.0	5.7	4.4	3.5	4.1	3.6	3.9	3.6	4.2	3.1	1.3	2.4	5.6	6.3	7.3	8.8	19.3
28	5.5	6.2	5.7	8.1	7.0	6.6	8.8	9.7	7.0	5.8	4.6	7.7	6.3	5.1	4.3	5.1	3.9	3.6	2.2	2.5	3.8	8.0	5.1	13.4	6.1	13.4
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	12.9	13.2	13.8	13.8	13.3	12.0	13.6	15.8	15.0	14.3	11.9	11.8	10.1	8.8	8.1	7.6	8.7	9.0	9.6	9.7	10.5	11.8	12.5	13.8		
MAX	36.6	34.9	36.0	36.1	35.2	33.4	41.3	48.4	37.2	37.0	33.5	34.0	24.5	19.3	23.9	21.3	26.9	31.0	29.9	29.1	31.6	29.9	32.4	38.1		



Number of 24HR Exceedences	1	Proposed Guideline
Number of Non-Zero Readings	672	
Maximum 1-HR Average	48.4 UG/M3	
Maximum 24-HR Average	30.0 UG/M3	
Monthly Calibration Standard Deviation	7.724	Opperational Time Opperational Uptime Monthly Average
		672 HRS 100.0 % 11.7 UG/M3

Entrance PM₁₀ ($\mu\text{g}/\text{m}^3$) – February 2019

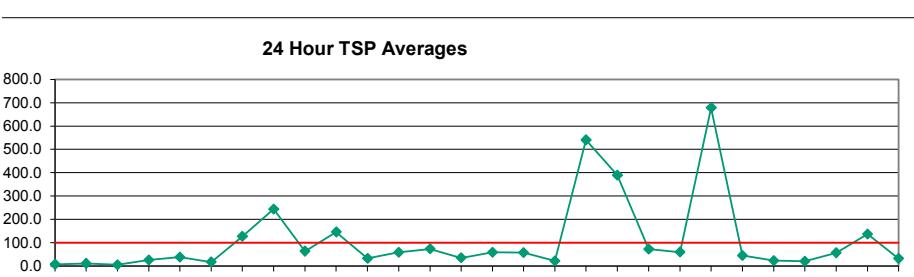
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	15.1	19.8	20.2	18.8	10.9	4.9	4.1	4.6	7.1	6.8	5.0	6.3	6.5	7.7	8.6	10.7	11.7	12.3	11.7	11.1	14.0	14.5	14.0	17.2	11.0	20.2
2	16.9	13.9	15.8	15.4	17.6	17.3	18.3	21.3	16.0	20.3	11.4	11.6	12.6	10.0	8.7	11.9	13.4	10.3	12.4	10.0	7.9	6.7	5.6	4.7	12.9	21.3
3	4.1	4.8	5.5	6.0	8.2	7.9	6.5	6.3	6.8	6.3	6.9	6.6	5.9	6.6	5.4	6.0	5.9	8.6	8.0	6.6	5.6	4.1	4.6	4.8	6.2	8.6
4	7.9	5.4	3.6	3.8	4.0	4.7	4.3	8.8	4.4	5.0	11.4	7.5	5.9	5.7	12.5	11.7	8.7	8.6	6.5	11.7	7.4	8.8	12.1	10.6	7.5	12.5
5	11.2	12.3	13.1	15.3	15.3	17.5	54.7	32.4	35.7	32.7	25.5	22.0	5.9	24.9	36.5	16.0	22.3	12.3	14.5	12.5	11.7	9.7	11.7	15.9	20.1	54.7
6	17.3	17.6	16.0	16.0	17.6	16.7	15.0	19.8	18.9	17.4	16.7	16.3	18.9	14.3	12.5	15.0	15.5	19.5	13.0	14.3	15.1	16.9	18.0	12.5	16.3	19.8
7	12.8	43.0	44.4	55.1	22.2	33.7	54.2	57.5	79.0	123.5	97.6	81.3	50.1	37.1	34.2	53.0	113.9	74.6	59.6	39.1	22.6	16.5	10.2	15.2	51.3	123.5
8	15.2	16.2	22.4	17.9	27.6	27.4	22.1	20.0	14.7	17.9	19.0	26.3	53.8	32.1	43.0	22.8	26.5	28.9	25.9	24.2	22.4	15.0	11.2	13.8	23.6	53.8
9	13.1	13.8	14.3	14.9	20.5	14.8	19.6	17.7	12.4	18.0	16.0	11.3	10.6	10.2	9.0	9.6	9.5	13.6	12.5	13.2	15.9	20.0	15.5	14.5	14.2	20.5
10	15.9	13.5	25.8	23.0	18.4	14.9	17.5	12.5	19.4	14.7	29.3	24.1	21.1	17.3	15.7	32.1	16.6	14.6	13.4	13.5	45.4	40.1	24.1	12.1	20.6	45.4
11	11.5	10.1	9.7	13.1	11.8	12.5	14.6	15.4	18.0	18.2	28.5	45.0	32.1	35.3	17.9	11.9	14.0	22.7	17.6	15.7	14.6	22.3	23.4	22.6	19.1	45.0
12	21.9	20.8	16.0	16.6	16.7	21.7	20.8	18.4	21.8	16.3	21.4	27.1	34.0	36.3	39.7	35.5	30.7	25.0	19.4	21.3	22.7	24.0	23.9	19.4	23.8	39.7
13	19.4	18.8	15.5	17.4	18.5	17.9	21.8	28.3	36.3	32.3	28.8	46.9	33.3	26.5	23.3	37.7	34.6	50.7	86.4	34.9	36.0	31.9	25.6	32.9	31.5	86.4
14	37.8	38.1	31.2	33.2	40.8	24.9	20.4	25.6	26.5	35.1	64.3	14.6	7.3	12.1	10.1	8.0	12.0	25.6	13.3	20.3	25.9	24.4	30.7	43.9	26.1	64.3
15	40.8	38.4	35.3	46.1	42.6	41.7	40.3	35.7	49.3	46.1	54.8	31.2	31.4	24.8	47.0	36.9	36.5	42.4	39.9	35.4	36.4	33.9	36.3	42.1	39.4	54.8
16	39.1	40.3	39.9	36.5	35.9	38.8	43.5	47.8	44.4	46.0	38.5	39.6	32.4	26.6	19.9	14.3	11.6	11.4	11.8	12.2	10.2	11.7	19.0	17.2	28.7	47.8
17	15.4	17.1	19.4	19.5	16.9	13.2	13.2	14.9	15.0	17.2	16.8	14.1	13.3	15.9	15.9	16.3	13.2	12.7	13.2	15.2	13.8	13.5	13.4	15.8	15.2	19.5
18	19.3	20.0	16.9	16.2	16.5	16.8	21.5	64.1	41.3	160.0	223.7	203.0	176.2	112.6	54.9	27.4	48.9	75.5	86.4	84.4	170.2	235.1	201.6	55.1	89.5	235.1
19	52.7	65.8	36.3	31.0	36.0	29.6	25.8	94.7	152.9	31.7	62.4	99.6	43.7	31.9	41.2	24.1	14.1	14.2	12.2	22.8	7.7	4.5	27.1	70.8	43.0	152.9
20	37.0	47.8	39.9	33.6	30.5	17.3	26.8	27.1	28.3	27.5	21.5	60.4	52.8	32.8	15.7	11.3	11.3	2.3	11.6	6.6	7.6	20.9	8.7	4.3	24.3	60.4
21	5.9	4.6	3.3	4.2	5.0	5.9	6.5	11.4	11.8	14.4	24.3	29.3	15.1	17.1	9.7	6.4	6.6	12.6	8.9	4.8	35.4	21.6	113.0	54.3	18.0	113.0
22	23.0	27.4	139.8	64.0	46.0	86.3	80.6	42.9	59.3	124.7	22.2	13.6	28.2	18.5	21.4	7.9	5.8	7.6	4.8	6.3	8.1	43.9	61.7	55.6	41.7	139.8
23	30.8	9.4	6.9	26.4	24.2	20.2	15.6	11.7	12.8	9.0	11.9	13.1	6.5	6.1	5.4	9.4	17.2	13.2	14.8	18.8	16.1	19.0	13.7	22.0	14.8	30.8
24	6.2	4.4	7.3	4.0	7.5	6.5	7.3	12.7	9.6	11.6	11.6	5.0	5.5	5.6	3.5	3.4	2.8	6.1	5.7	6.1	5.5	5.5	5.2	6.5	6.5	12.7
25	8.2	8.4	8.9	9.6	7.1	7.1	8.3	15.4	14.8	10.8	24.8	11.3	6.6	6.3	6.0	7.4	7.2	7.7	8.7	12.7	17.6	18.8	21.2	13.5	11.2	24.8
26	18.1	15.8	25.0	21.5	19.0	17.7	23.8	28.2	17.0	26.9	19.9	13.9	11.6	12.8	9.0	5.6	29.3	15.3	18.8	20.5	22.4	53.8	144.2	99.9	28.8	144.2
27	111.5	94.2	106.8	127.6	96.5	30.7	61.8	65.1	102.1	59.3	24.8	12.0	11.0	17.7	13.2	13.6	10.4	22.1	11.5	2.2	3.4	22.2	25.9	36.3	45.1	127.6
28	25.8	19.8	10.5	12.2	10.5	9.8	13.0	14.5	10.2	11.4	13.5	21.1	15.0	12.6	9.8	13.1	8.9	12.7	3.3	4.6	10.9	12.0	7.1	19.5	12.6	25.8
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	23.4	23.6	26.8	25.7	23.0	20.7	24.4	27.7	31.6	34.3	34.0	32.6	26.7	22.0	19.6	17.1	20.0	20.8	20.2	17.9	22.6	27.6	33.2	26.9		
MAX	111.5	94.2	139.8	127.6	96.5	86.3	80.6	94.7	152.9	160.0	223.7	203.0	176.2	112.6	54.9	53.0	113.9	75.5	86.4	84.4	170.2	235.1	201.6	99.9		



Number of Non-Zero Readings	672
Maximum 1-HR Average	235.1 UG/M3
Maximum 24-HR Average	89.5 UG/M3
Monthly Calibration Standard Deviation	27.77
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	25.1 UG/M3

Entrance TSP ($\mu\text{g}/\text{m}^3$) – February 2019

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.1	12.8	13.1	12.2	7.1	3.2	2.7	3.1	4.8	4.6	3.4	4.3	4.4	5.4	5.7	7.4	8.1	8.2	7.7	7.2	9.4	9.6	9.3	11.8	7.3	13.1
2	11.5	9.9	11.9	12.0	15.5	13.9	13.5	14.0	22.4	10.5	10.4	12.6	9.9	8.3	12.7	14.8	11.0	13.6	10.4	7.4	5.7	4.1	3.4	11.5	22.4	
3	2.8	3.7	4.4	5.1	8.0	7.6	5.7	5.5	6.0	5.9	6.3	5.5	4.9	5.1	4.1	4.6	4.5	8.9	8.3	6.4	5.3	3.5	3.9	4.0	5.4	8.9
4	7.3	4.6	2.6	2.7	3.1	3.7	3.5	6.4	3.3	3.9	83.6	45.4	17.6	18.5	112.8	102.5	31.9	17.5	18.7	39.6	7.2	74.0	12.9	11.6	26.5	112.8
5	11.1	10.8	12.7	16.3	16.1	19.6	44.6	30.8	33.1	69.3	89.2	62.3	10.3	43.3	137.7	52.7	95.4	37.5	65.0	10.5	9.6	6.8	10.1	15.3	37.9	137.7
6	17.6	18.6	14.5	15.2	18.4	16.2	11.6	16.2	15.9	14.0	15.5	23.0	24.3	23.1	16.9	32.2	24.5	20.0	9.6	9.7	12.7	15.4	16.2	9.7	17.1	32.2
7	12.3	184.8	182.5	257.6	79.1	120.7	214.8	176.1	222.9	335.5	240.3	181.2	128.7	76.4	61.3	98.3	149.2	99.2	74.4	69.4	38.2	27.3	13.6	15.4	127.5	335.5
8	11.3	12.7	21.8	17.6	31.4	31.3	24.7	20.8	13.6	18.5	219.1	463.5	975.4	669.6	872.1	552.6	394.8	355.8	299.1	322.5	298.2	168.2	9.2	60.4	244.3	975.4
9	50.6	22.1	33.0	33.7	127.4	135.8	277.8	232.0	12.8	230.8	59.9	31.0	16.6	21.0	12.5	18.1	14.1	22.1	31.3	20.9	75.9	22.7	14.7	13.0	63.7	277.8
10	13.2	10.8	28.0	23.1	16.7	13.8	19.4	13.1	22.3	15.2	297.6	238.4	135.8	108.9	77.3	394.8	106.6	91.5	95.8	143.7	778.1	581.0	263.9	11.3	145.9	778.1
11	10.6	8.4	7.7	13.3	10.5	11.8	15.7	15.3	17.2	17.7	253.2	94.1	35.9	57.0	25.8	15.7	21.5	40.1	18.4	15.3	15.4	21.1	24.2	19.5	32.7	253.2
12	18.7	15.5	10.8	11.6	12.1	19.4	19.3	15.2	19.0	12.5	55.8	68.8	73.2	119.2	225.2	235.4	201.2	149.0	18.6	22.0	23.7	25.0	24.0	18.0	58.9	235.4
13	16.6	17.9	10.8	12.8	15.8	14.3	20.5	31.3	40.1	34.5	199.6	301.8	106.3	81.7	71.5	318.8	83.3	97.9	158.3	37.8	38.2	26.3	19.0	22.6	74.1	318.8
14	36.3	43.7	36.1	38.5	47.4	28.8	23.6	27.9	29.6	41.8	135.0	23.4	16.3	26.7	33.4	26.5	26.4	69.4	20.9	15.3	19.6	17.3	24.4	41.2	35.4	135.0
15	32.6	29.2	25.4	42.7	36.7	40.0	38.3	31.2	52.4	45.8	102.2	50.0	52.6	37.5	275.3	231.5	55.1	47.0	41.0	31.3	31.3	27.7	30.5	34.5	59.2	275.3
16	34.2	32.7	31.9	26.4	27.5	33.4	39.7	47.9	42.2	45.9	34.5	114.4	194.0	279.2	174.9	97.2	41.9	9.8	12.2	12.5	8.9	11.4	19.9	14.7	57.8	279.2
17	12.4	14.6	14.1	13.5	13.8	10.9	9.9	10.4	11.0	18.2	38.3	26.3	28.0	78.4	87.6	61.4	20.0	9.1	8.9	10.6	9.2	9.1	9.0	11.5	22.3	87.6
18	15.9	18.3	12.9	12.4	13.9	13.1	19.5	60.0	44.0	644.1	774.1	628.8	639.6	327.2	289.1	113.3	276.8	437.0	693.1	851.0	1670.0	2220.0	2501.6	701.1	540.7	2501.6
19	768.6	290.6	300.7	640.6	687.8	478.8	305.8	1242.3	1430.2	307.6	630.8	657.0	238.9	165.1	242.5	187.3	116.5	53.4	61.6	289.5	35.6	5.8	76.3	129.2	389.3	1430.2
20	46.8	55.6	46.2	38.9	35.1	19.2	30.0	30.6	31.7	31.5	23.4	422.9	696.4	120.7	32.8	11.0	11.9	1.7	12.9	6.2	6.9	23.6	8.9	3.7	72.9	696.4
21	5.0	4.0	2.4	3.4	4.0	5.1	5.6	11.1	10.8	22.4	66.0	133.1	23.8	33.4	63.6	18.7	27.8	23.0	20.1	12.3	140.0	164.2	363.8	276.0	60.0	363.8
22	381.9	490.6	2700.0	1583.9	1140.0	2288.7	2075.4	1013.2	1387.4	2159.7	387.1	28.1	87.2	62.2	55.8	26.0	17.8	17.5	10.5	11.2	12.0	81.0	121.7	137.9	678.2	2700.0
23	59.4	17.7	7.1	30.0	25.6	20.9	15.8	12.3	14.3	9.3	98.9	221.7	24.0	14.4	12.1	73.7	313.4	14.3	12.5	17.4	16.9	17.3	11.8	15.1	44.8	313.4
24	5.0	3.6	5.5	2.8	5.4	4.5	7.7	11.5	10.7	98.1	164.0	23.3	15.0	15.3	9.5	13.3	5.1	88.1	42.7	5.1	4.0	4.1	3.8	5.0	23.0	164.0
25	7.2	6.9	7.8	10.2	7.0	6.2	6.9	14.9	14.9	69.3	73.2	39.9	20.1	16.6	9.9	17.3	5.7	8.9	27.1	38.3	16.0	17.5	23.2	12.1	19.9	73.2
26	18.9	15.7	28.3	23.7	19.5	17.2	24.0	24.4	14.7	62.8	34.5	16.3	13.0	14.3	14.2	7.5	75.8	57.7	29.3	33.7	61.6	125.5	300.8	341.0	57.3	341.0
27	399.7	313.5	374.2	547.9	388.3	74.1	152.2	145.8	295.9	161.4	52.9	21.3	24.3	38.6	31.2	26.0	19.5	63.3	22.2	3.0	5.4	34.7	50.8	52.2	137.4	547.9
28	33.2	37.2	15.4	13.9	11.2	9.7	13.0	14.8	9.8	17.3	31.1	28.4	35.7	27.0	27.8	41.9	14.0	67.0	7.9	56.2	158.5	66.1	6.5	21.0	31.9	158.5
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100%
MEAN	73.2	60.9	141.5	123.6	100.9	123.6	122.9	117.2	136.6	161.4	149.3	141.6	130.5	89.1	106.8	99.9	77.8	68.8	65.8	75.3	125.5	136.1	142.1	71.9		
MAX	768.6	490.6	2700.0	1583.9	1140.0	2288.7	2075.4	1242.3	1430.2	2159.7	774.1	657.0	975.4	669.6	872.1	552.6	394.8	437.0	693.1	851.0	1670.0	2220.0	2501.6	701.1		



Number of 24HR Exceedences		7 Proposed Guideline
Number of Non-Zero Readings		672
Maximum 1-HR Average		2700.0 UG/M3
Maximum 24-HR Average		678.2 UG/M3
Monthly Calibration Standard Deviation		0
Operational Time		672 HRS
Operational Uptime		100.0 %
Monthly Average		110.1 UG/M3