

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2023

MARCH 31, 2023



wsp



AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2023

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: MARCH 31, 2023

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March 30, 2023

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – February 2023

The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Lagoon Station for February 2023.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	100%	-	1
PM _{2.5}	98.5%	0	0
PM ₁₀	99%	-	-
NO	100%	-	-
NO ₂	100%	0	-
NO _x	100%	-	-
SO ₂	100%	0	0
Temperature	100%	-	-
Wind Speed / Direction	100%	-	-
Pressure	100%	-	-
Relative Humidity	100%	-	-
Precipitation	100%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAOs) or Guidelines (AAAQG) at the Windridge Station for February 2023.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	53.7%	-	-	12
PM _{2.5}	53.7%	0	0	-
PM ₁₀	53.7%	-	-	-

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. This Program uses the AAAQOs as Guidelines. The following table summarizes the data completeness and exceedances of the Guidelines at the GRIMM Monitors for February 2023.

GRIMM Stations	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of PM _{2.5} Guidelines	Exceedances of PM _{2.5} Guidelines	Exceedances of TSP Guidelines
West	100%	0	0	0
Berm	100%	9	7	22
Entrance	0%	0	0	0

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.
Senior Air Quality Specialist,
Vancouver Region

SIGNATURES

PREPARED BY



March 31, 2023

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Date

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



March 31, 2023

Tyler Abel, M.Sc.
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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 GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge’s Approval 1702-02-04. This report contains data collected between February 1, 2023 and February 28, 2023.

This monthly report was prepared by Tuonan Li, Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Senior Air Quality Specialist at WSP.

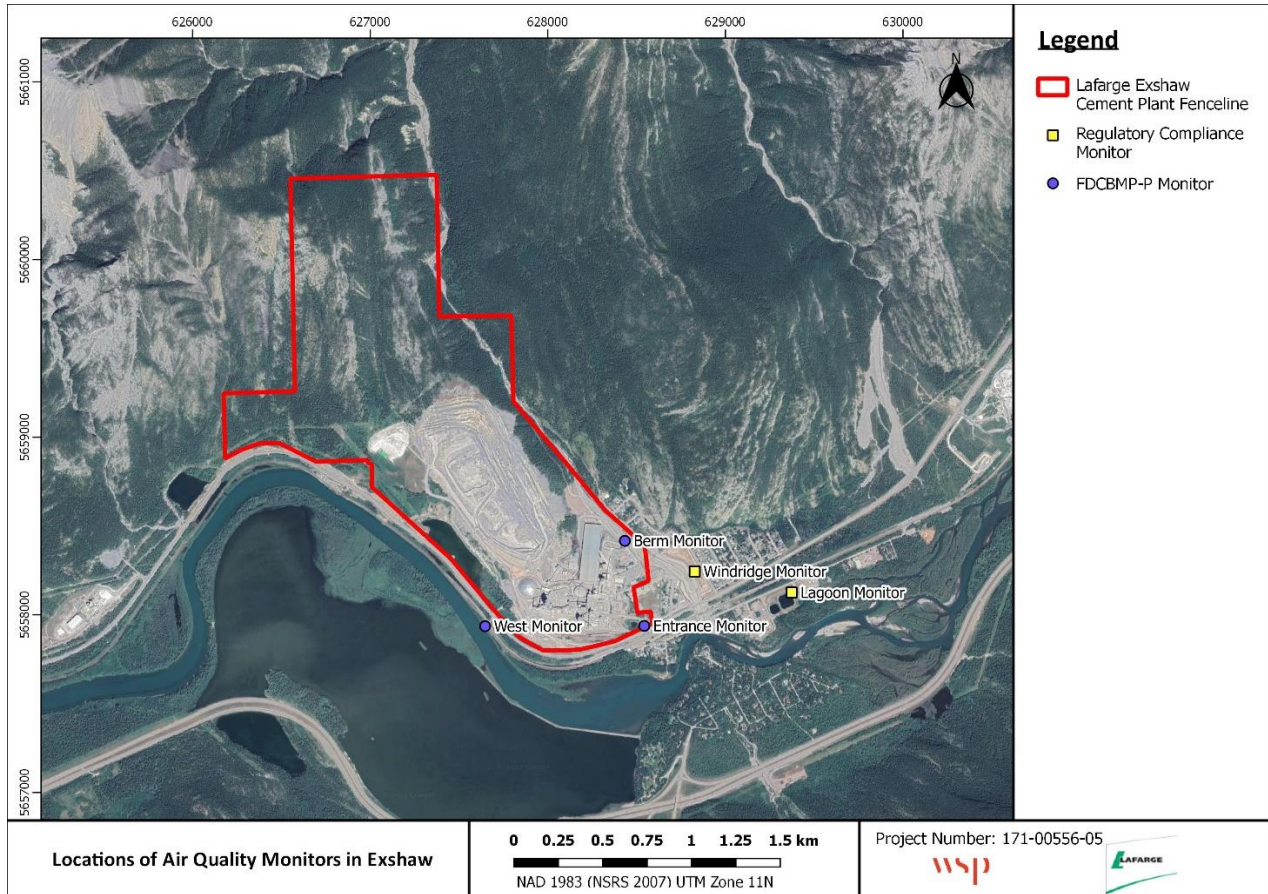


Figure 1-1 Locations of Air Quality Monitors in Exshaw

1.1 EXSHAW CREEK FLOOD MITIGATION

Due to flood mitigation construction at Exshaw creek (Figure 1-2), the Windridge monitoring station was taken out of operation and removed from the site on April 8, 2019. The flood mitigation work was completed in Summer 2020. The Windridge station was reinstalled on September 1, 2020 and is included in this report. The flood mitigation work has left an exposed creek bed area (see Figure below) that is a potential source of fugitive dust between Lafarge’s eastern fenceline and the Windridge station.



Figure 1-2 Photo of Completed Flood Mitigation Work at Exshaw Creek

2 FEBRUARY 2023 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 each station 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
NO₂ (ppb)	100.0	29.9	0	19.9	-
SO₂ (ppb)	100.0	10.8	0	3.1	0
PM_{2.5} (µg/m³)	98.5	26.2	0 ¹	8.8	0
PM₁₀ (µg/m³)	99.0	448.2	-	62.4	-
TSP (µg/m³)	100.0	923.8	-	112.5	1
Temperature (°C)	100.0	8.2	-	5.8	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	55.6/W	-	41.0/WSW	-
Precipitation (mm)	100.0	0 ²	-	0 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) – freezing temperatures can impact the precipitation totals in winter months

³ Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

Data Quality Notes:

- There were zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There were zero exceedances of the 1-hour PM_{2.5} AAAQG.
- There were one day exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station, NO₂ and SO₂ analyzers recorded 100% uptime for the month of February.
- All meteorological analyzers recorded 100% uptime for the month of February.
- The TSP analyzer recorded 100% uptime for the month of February.
- The PM₁₀ analyzer recorded 99% uptime for the month of February due to seven hours of equipment malfunction occurring on February 16th at 2:00, February 17th at 2:00, and February 23rd at 12:00 – 16:00.
- The PM_{2.5} analyzer recorded 98.5% uptime for the month of February due to 10 hours of equipment malfunction occurring on February 12th at 2:00, February 14th at 2:00, February 16th at 2:00, February 17th at 2:00, February 22nd at 2:00, February 23rd at 2:00, February 24th at 2:00, February 26th at 2:00, February 27th at 2:00, and February 28th at 2:00.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	53.7	55.0	0*	7.8	0
PM ₁₀ (µg/m ³)	53.7	485.0	-	174.4	-
TSP (µg/m ³)	53.7	985.0	-	219.4	12

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

Data Quality Notes:

- There were zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There were zero hours exceeding the 1-hour PM_{2.5} AAAQG.
- There were 12 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The PM_{2.5}, PM₁₀, and TSP monitors recorded 53.7% uptime during the month of February due to one hour of non-routine maintenance occurring on February 15th at 12:00. And further, 310 hours of power failure occurring on February 15th 13:00 – February 28th 10:00.

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} (µg/m ³)	100.0	35.8	0*	12.1	0
PM ₁₀ (µg/m ³)	100.0	47.1	-	15.2	-
TSP (µg/m ³)	100.0	46.1	-	13.5	0

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

Data Quality Notes:

- There were zero exceedances of the 24-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 1-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer recorded 100% uptime during 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} (µg/m ³)	100.0	207.2	9*	42.5	7
PM ₁₀ (µg/m ³)	100.0	1796.2	-	375.8	-
TSP (µg/m ³)	100.0	3746.0	-	1498.7	22

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

Data Quality Notes:

- There were seven exceedances of the 24-hour PM_{2.5} Guidelines.
- There were nine exceedances of the 1-hour PM_{2.5} Guidelines.

- There were 22 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 100% uptime during the month of February.
-

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.

Calibration/Maintenance Notes:

- The analyzer had 0% uptime for the month of February due to electrical issues requiring factory replacement of the AC-DC board.

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 3-9) and tables and graphs illustrating the monitoring results for February 2023.

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	The PM _{2.5} monitor was calibrated on February 15 th . The monitor had 98.5% uptime for the month of February due to 10 hours of equipment malfunction occurring on February 12 th at 2:00, February 14 th at 2:00, February 16 th at 2:00, February 17 th at 2:00, February 22 nd at 2:00, February 23 rd at 2:00, February 24 th at 2:00, February 26 th at 2:00, February 27 th at 2:00, and February 28 th at 2:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on February 15 th . The monitor had 99.0% uptime for the month of February due to seven hours of equipment malfunction occurring on February 16 th at 2:00, February 17 th at 2:00, and February 23 rd at 12:00 – 16:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on February 15 th . The monitor had 100% uptime for the month of February.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on February 23 rd . The monitor had 100% uptime for the month of February.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on February 23 rd . The monitor had 100% uptime for the month of February.

Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of February.
Wind Speed	MetOne Wind Sensor	The monitor had 100% uptime for the month of February.
Wind Direction		
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 100% uptime for the month of February.



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

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in February 2023. Figure 3-2 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-8 shows daily average concentrations recorded during February 2023 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There was 1 day exceeding the 24-hour TSP (100 µg/m³) AAAQO. There were 0 exceedances of the 24-hour PM_{2.5} (29 µg/m³) AAAQO. Further, there were 0 exceedances of the 1-hour PM_{2.5} AAAQG (80 µg/m³).

Historically in February, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are 0. The maximum number of 24-hour TSP AAAQO exceedances recorded in February was 2 days in 2018.

At the Lagoon station strong wind gusting that typically occurs in the area contributes to increased particulate levels that may arise from multiple sources including the Lafarge Plant, Exshaw Creek, dry sections of the Bow River, highway and rail traffic moving past the station and fugitive emissions from open areas.

Table 3-2 Summary of February 2023 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
NO₂ (ppb)	159	-	Lagoon	0	-	1.0	7.5	29.9	28	23	13.1	37.0	19.9	28	100.0
SO₂ (ppb)	172	48	Lagoon	0	0	0.0	1.1	10.8	11	19	29.3	255.6	3.1	11	100.0
PM_{2.5} (µg/m³)	80	29	Lagoon	0	0	0.0	3.2	26.2	16	1	33.5	246.4	8.8	28	98.5
PM₁₀ (µg/m³)	-	-	Lagoon	-	-	0.0	24.5	448.2	10	12	29.3	254.0	62.4	25	99.0
TSP (µg/m³)	-	100	Lagoon	-	1	0.0	42.3	923.8	10	12	29.3	254.0	112.5	10	100.0
Temperature (°C)	-	-	Lagoon	-	-	-29.9	-3.6	8.2	12	24	27.9	251.9	5.8	3	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.8	24.6	55.6/W	16	14	55.6	232.8	41.0/WSW	25	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	0.0 ¹	1	24	7.5	54.7	0.0 ²	-	100.0

¹ Maximum Daily Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

² Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

Table 3-3 Days exceeding the TSP AAAQO or PM_{2.5} AAAQO at the Lagoon 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)
Lagoon						
2023-02-10	112.5	-	251.2	24.1	39.0	high wind event
Total # of Exceedances	1	0				
Maximum # of Exceedances (February)	2 (2018)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022)				
Average # of Exceedances (February)	0	0				
Minimum # of Exceedances (February)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2017, 2019, 2022)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022)				

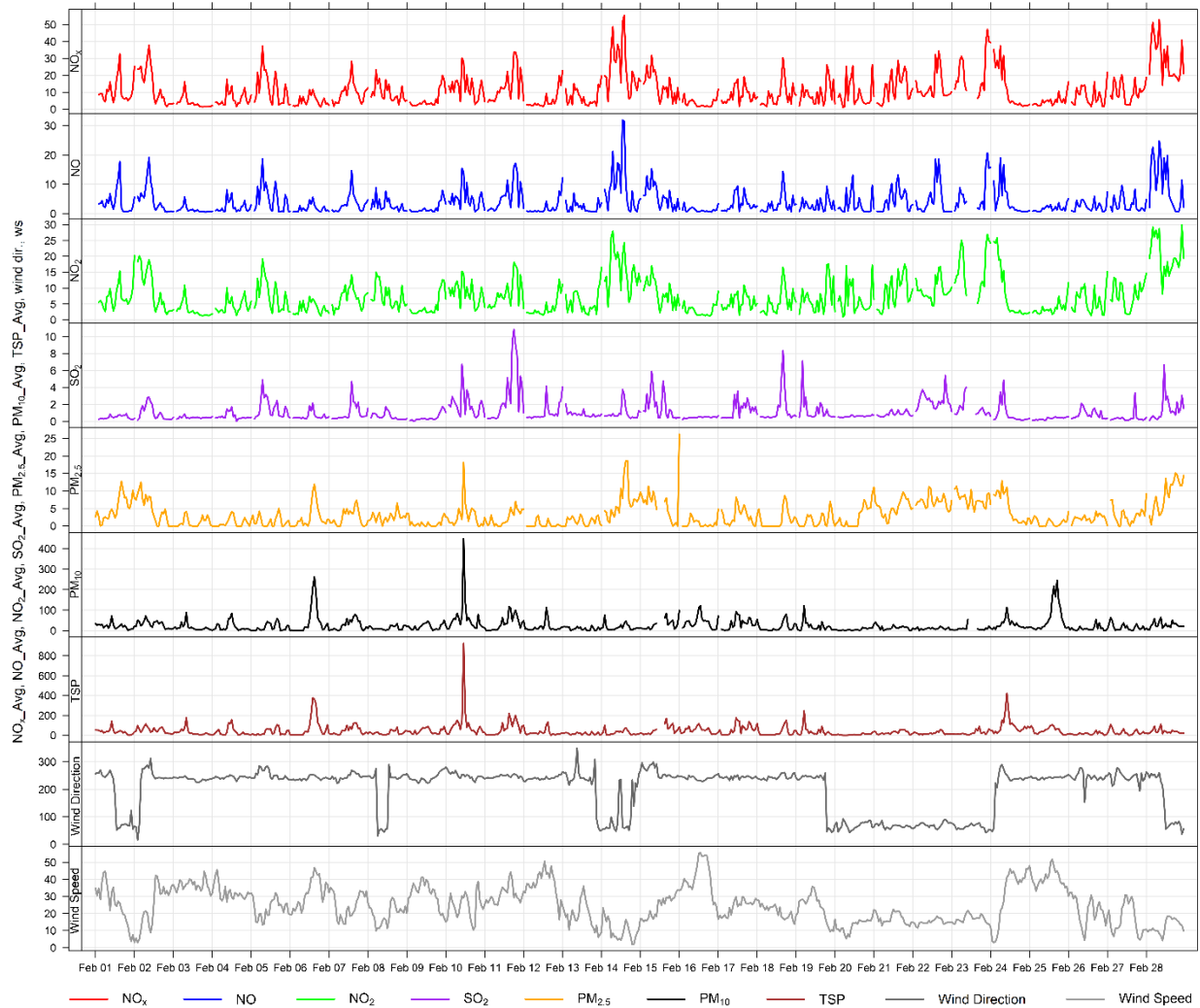


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

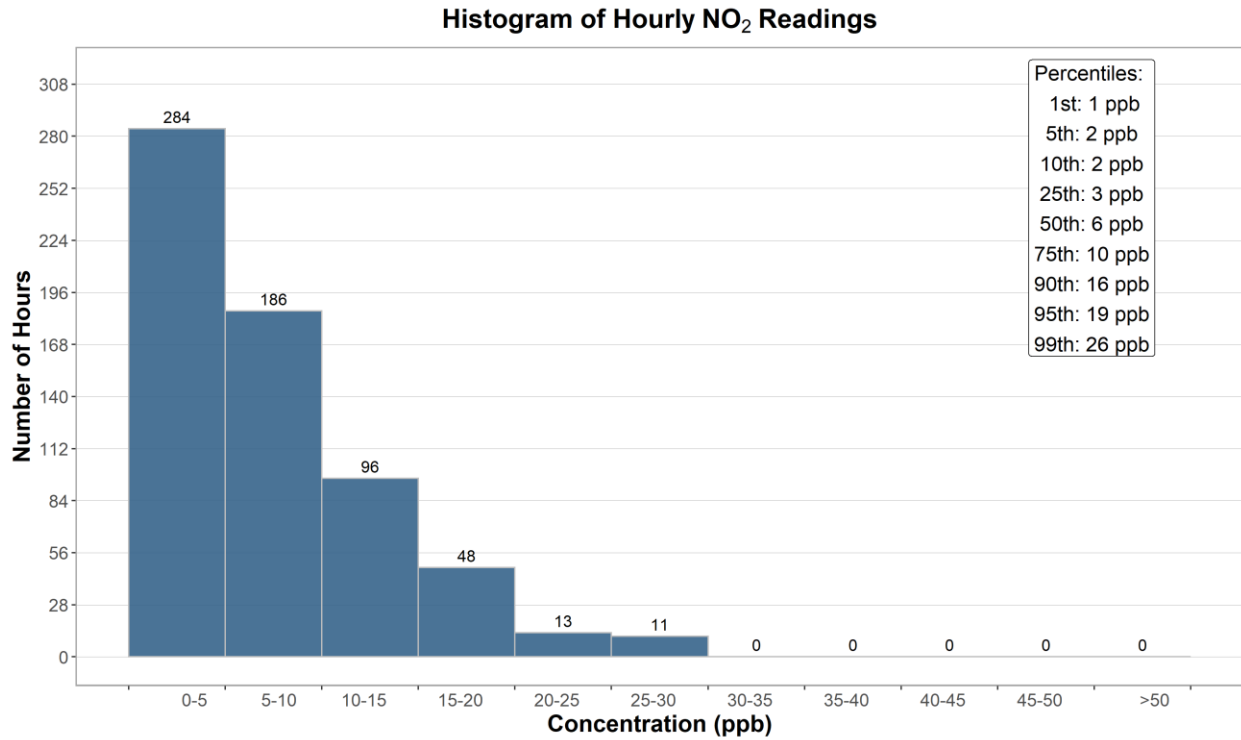


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

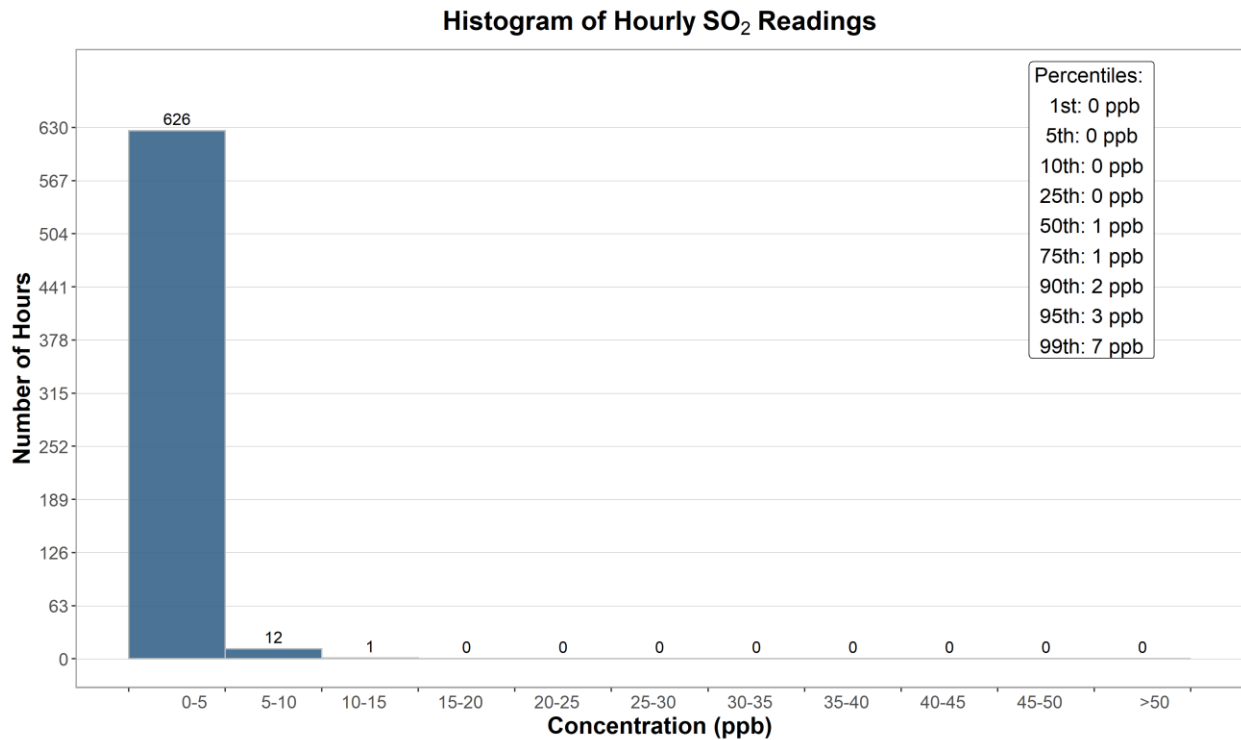


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

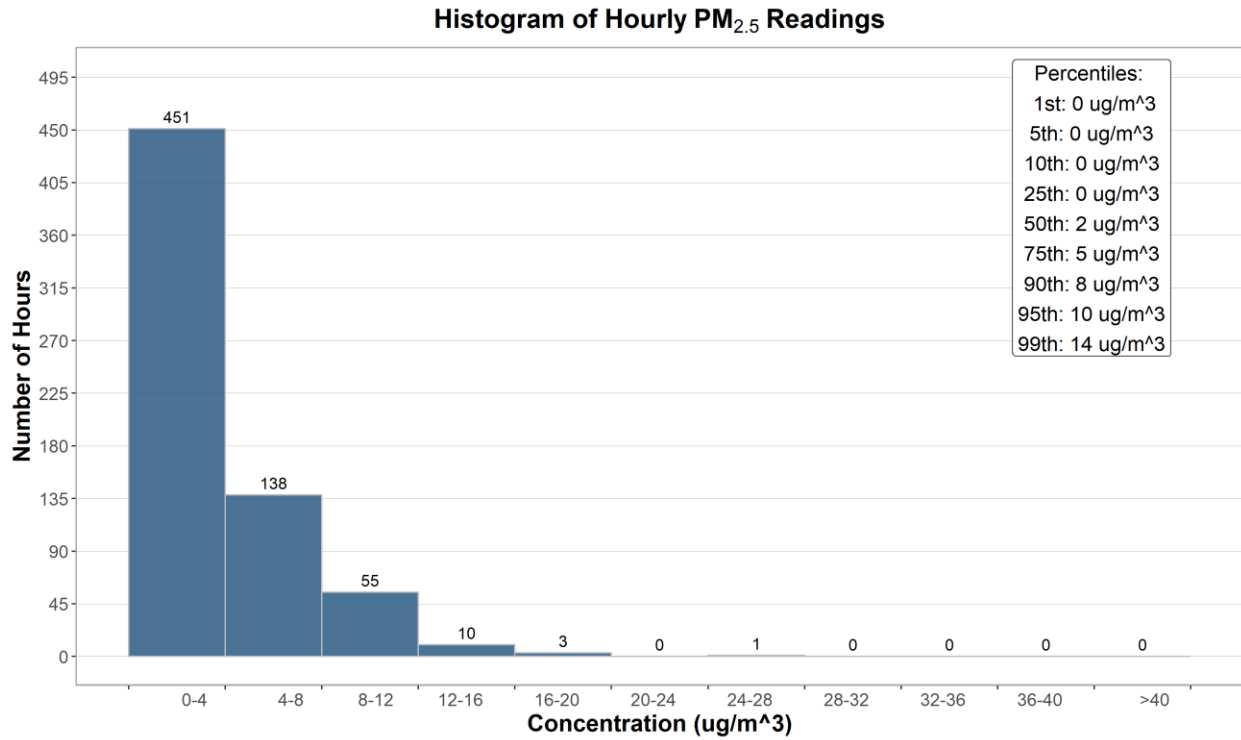


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

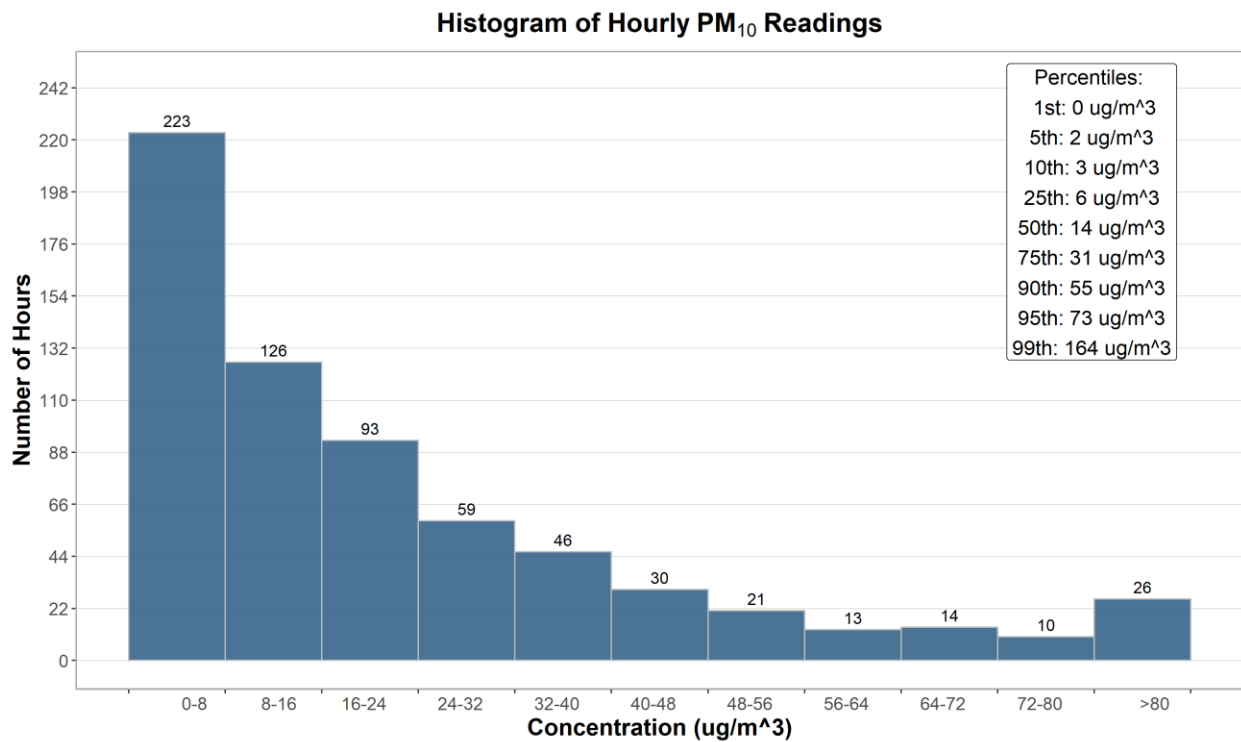


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

Histogram of Hourly TSP Readings

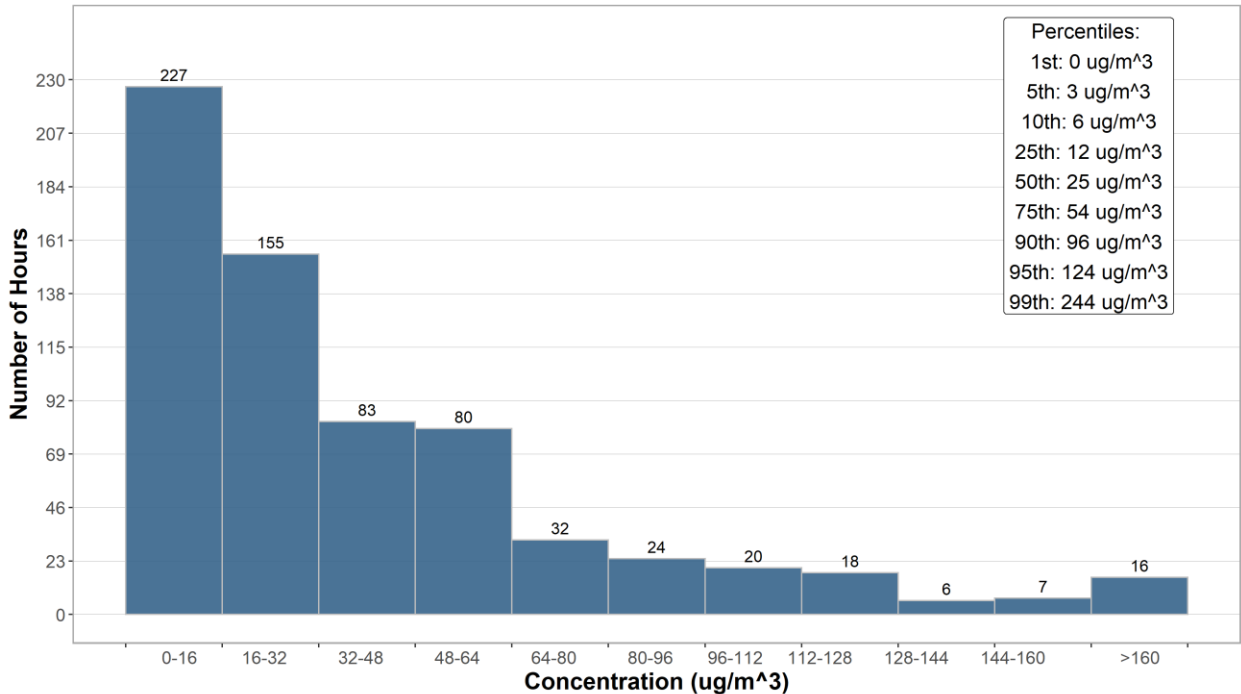


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

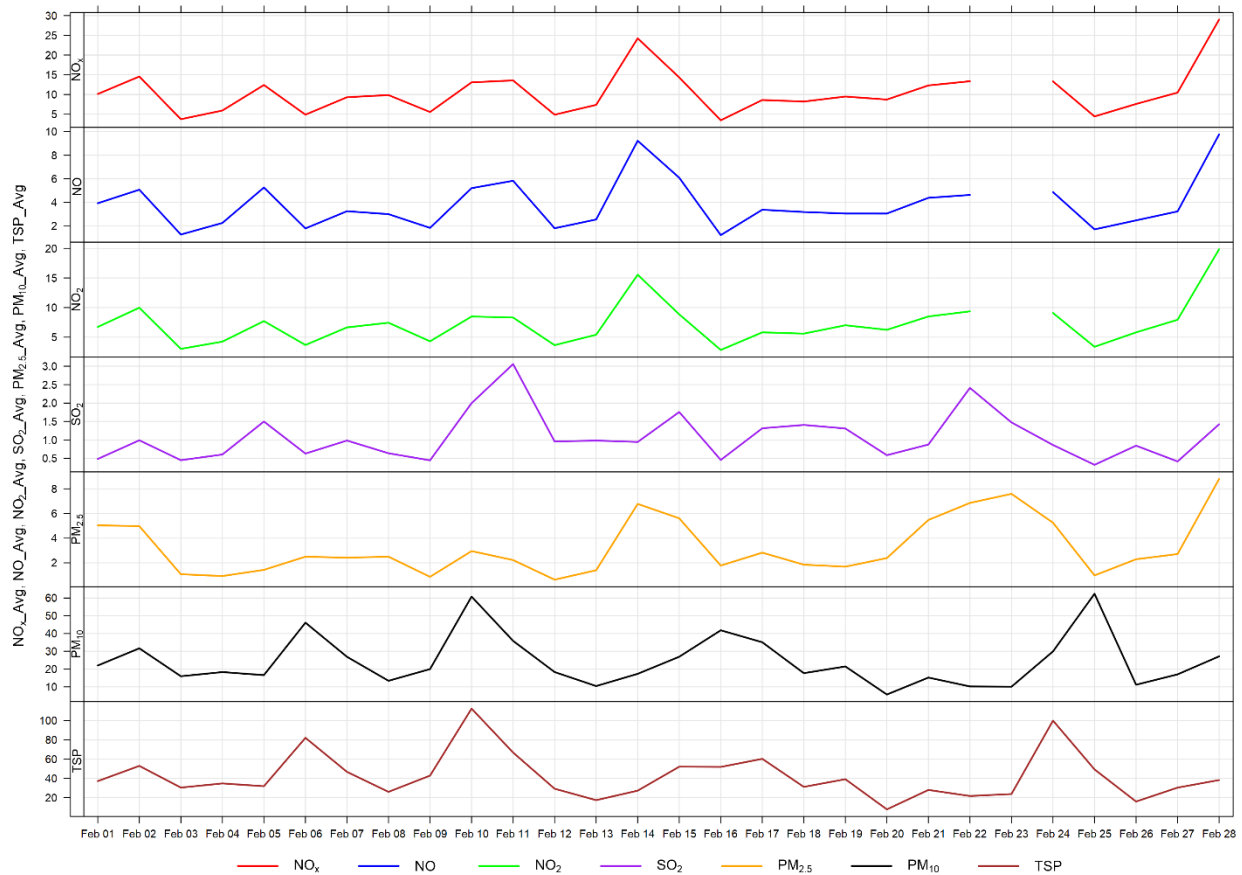


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-9 shows the wind rose for the 1 day of TSP exceedance in February. The wind rose shows that the winds predominately came from the west and west-southwest with high wind speed (> 20 km/hr).

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 typically shows that PM₁₀ and TSP concentrations have a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other airshed activities. The diurnal patterns also typically follow the diurnal pattern of higher wind speeds during the daytime hours.

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.

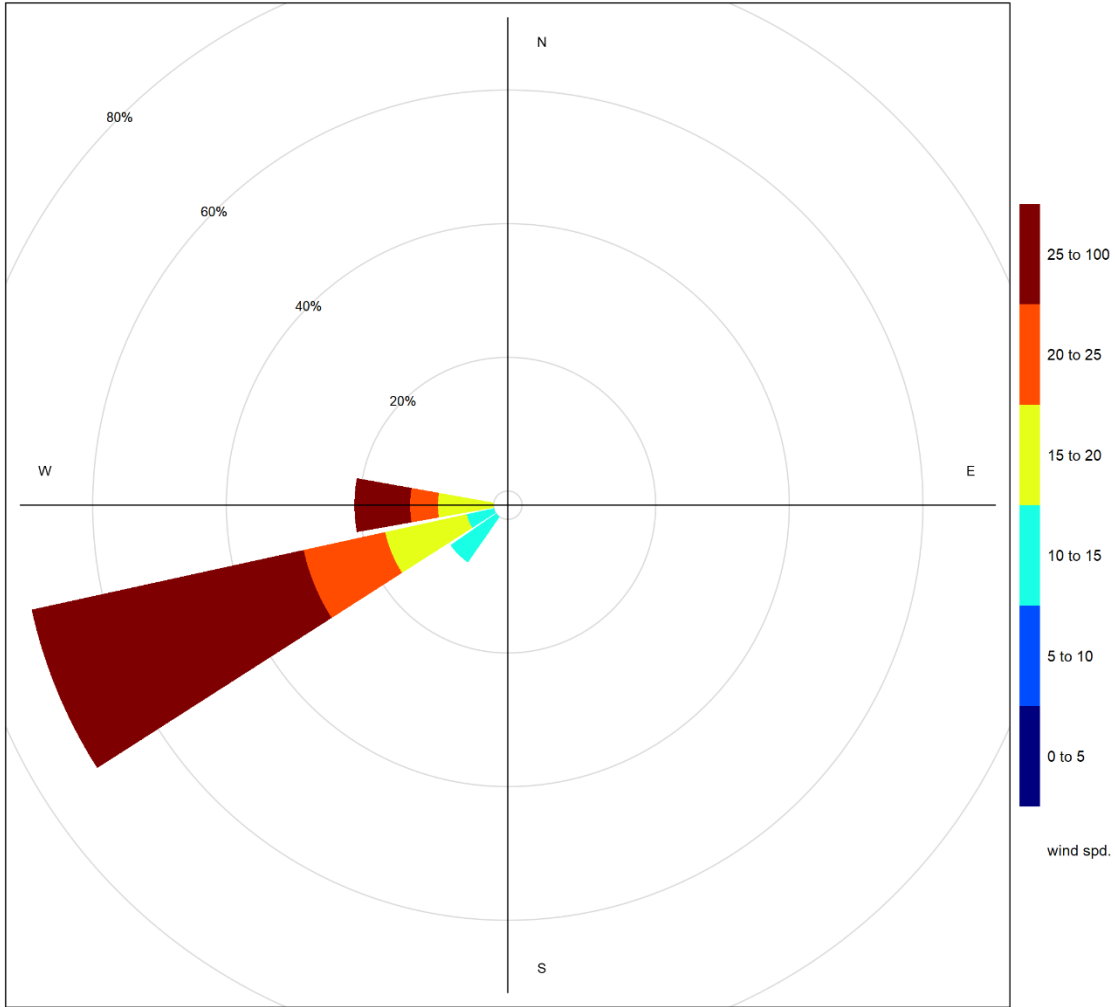


Figure 3-9 Wind rose for TSP exceedance day recorded at the Lagoon Station

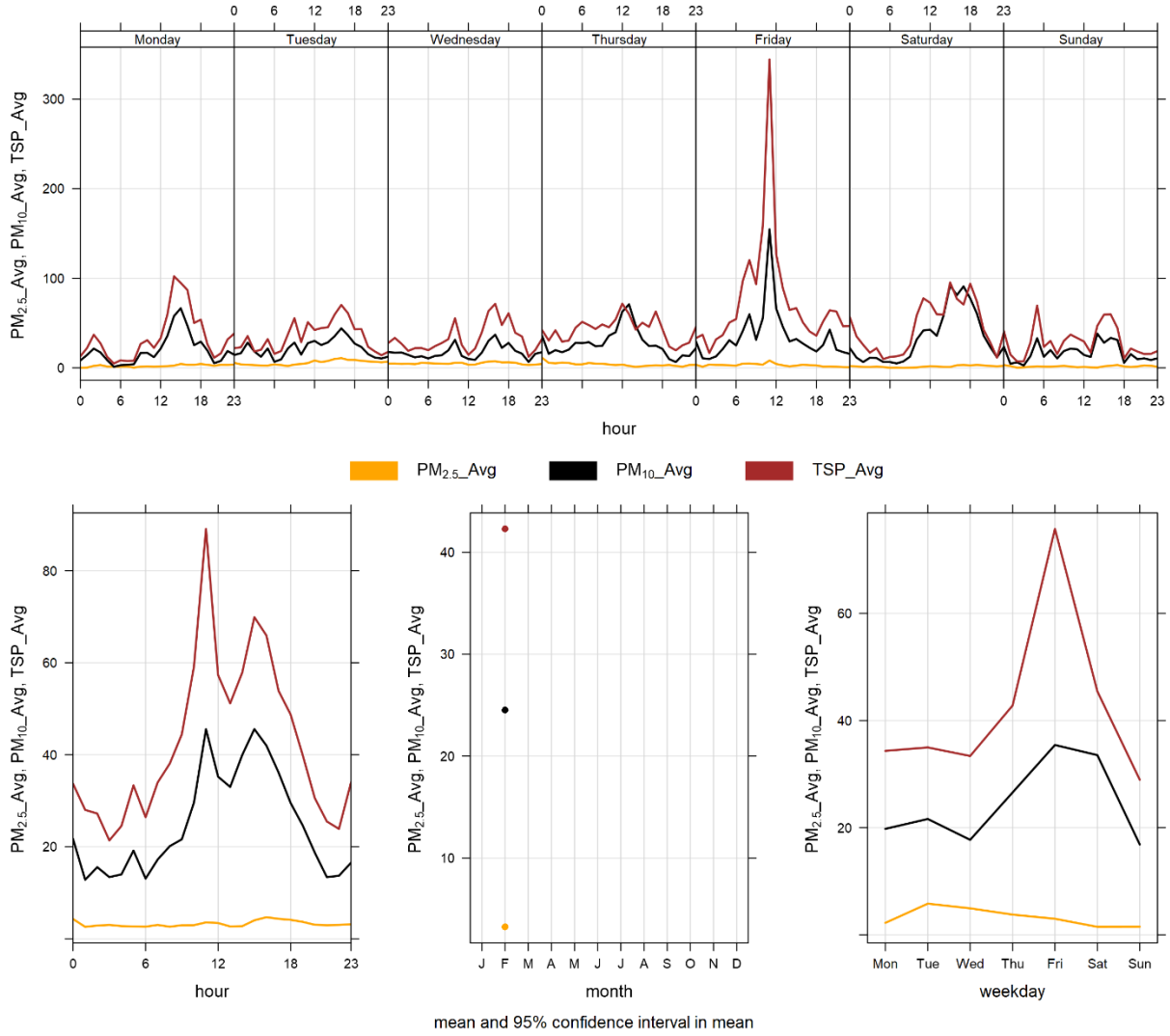


Figure 3-10 Lagoon monitor particulate matter time variation

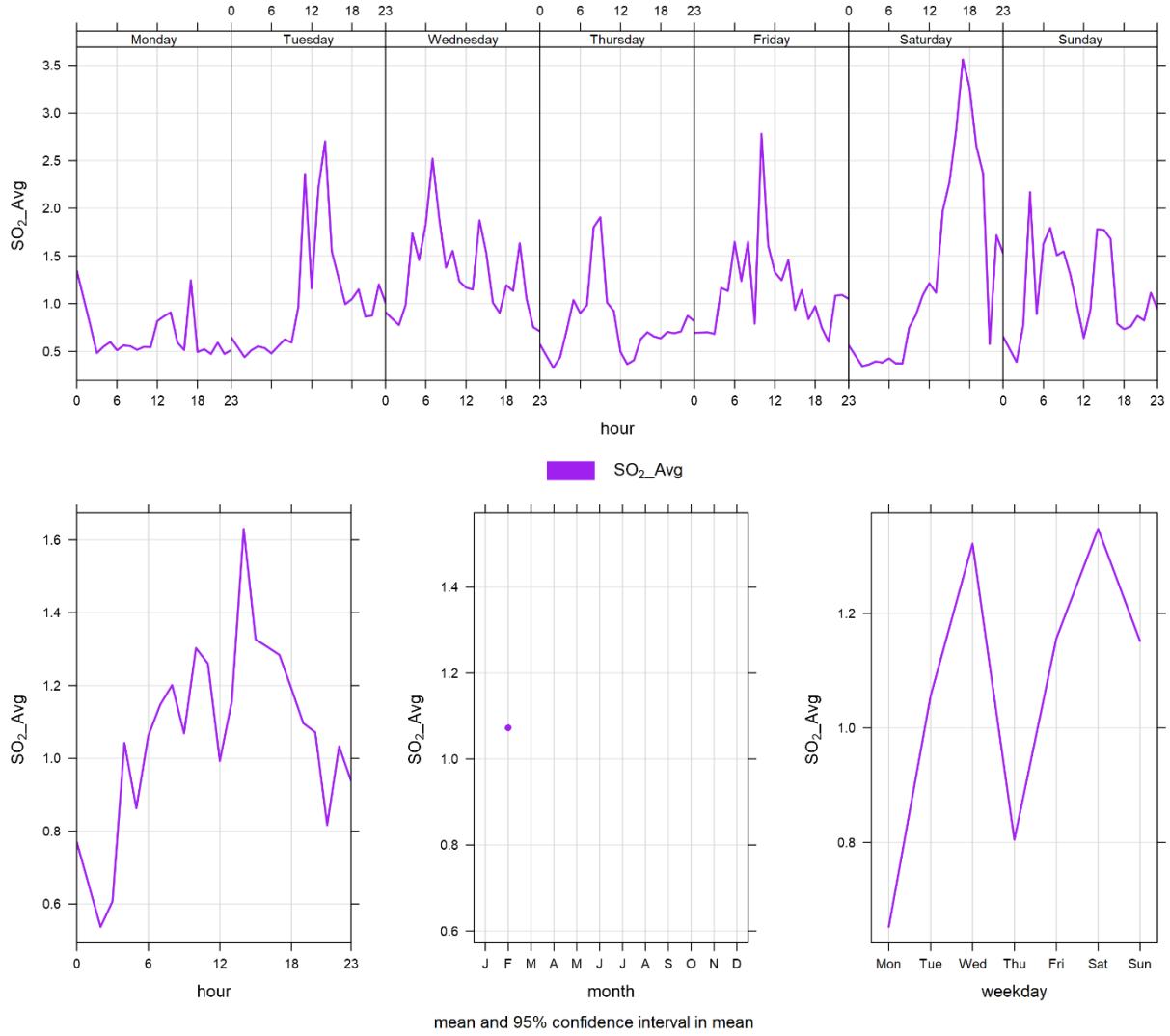


Figure 3-11 Lagoon monitor SO₂ time variation

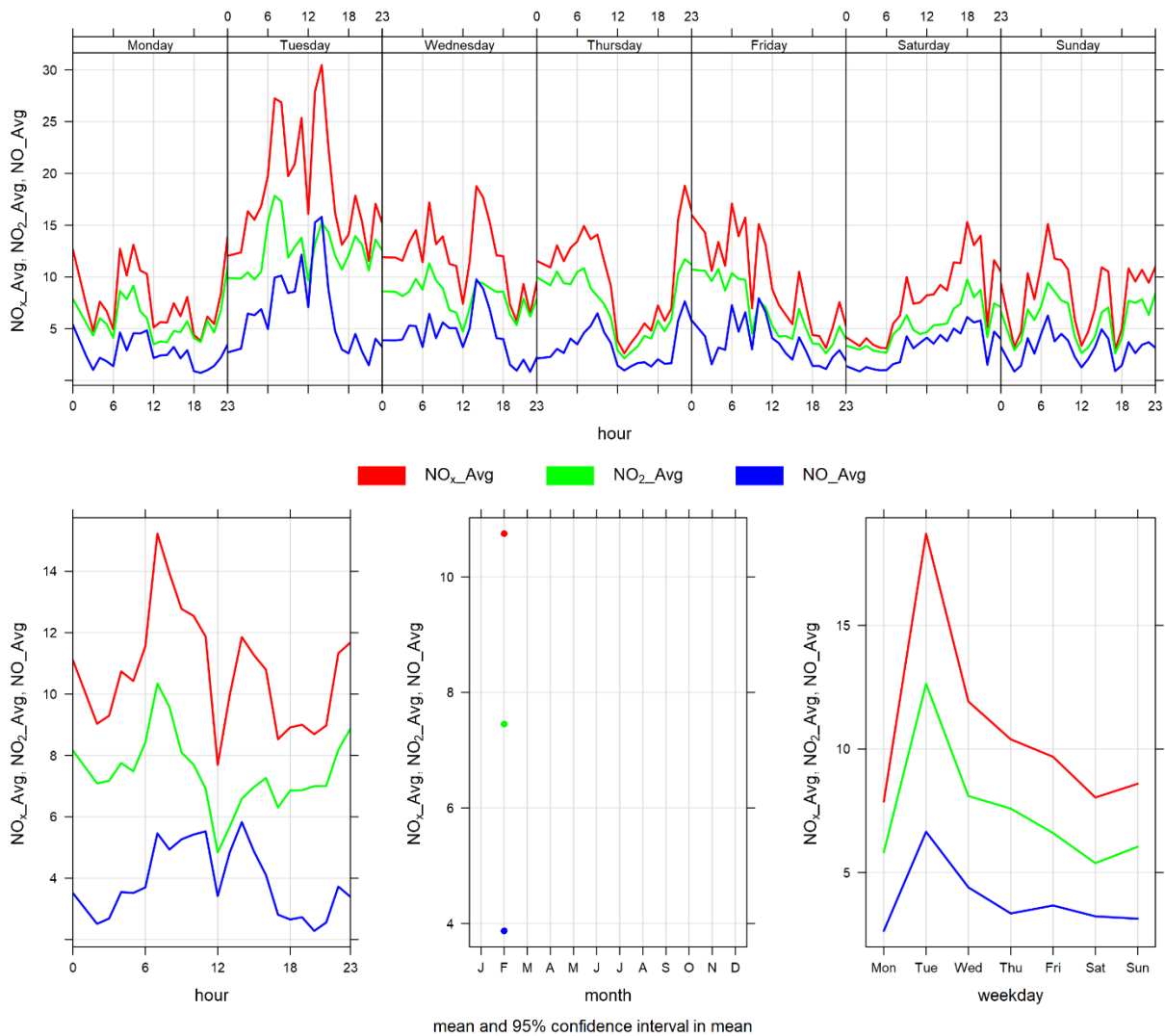


Figure 3-12 Lagoon monitor NO_x time variation

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 2023.

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	The PM _{2.5} monitor was calibrated on February 28 th . The monitor recorded 53.7% uptime during the month of February due to one hour of non-routine maintenance occurring on February 15 th at 12:00. And further, 310 hours of power failure occurring on February 15 th 13:00 – February 28 th 10:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on February 28 th . The monitor recorded 53.7% uptime during the month of February due to one hour of non-routine maintenance occurring on February 15 th at 12:00. And further, 310 hours of power failure occurring on February 15 th 13:00 – February 28 th 10:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on February 28 th . The monitor recorded 53.7% uptime during the month of February due to one hour of non-routine maintenance occurring on February 15 th at 12:00. And further, 310 hours of power failure occurring on February 15 th 13:00 – February 28 th 10:00.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in February 2023, and Table 4-3 summarizes the recorded exceedances. Figure 4-1 illustrates the time series for hourly PM, Figure 4-2 to Figure 4-4 illustrates 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, and Figure 4-7 illustrates the time series for hourly PM over different time periods. It should be noted that the data completeness recorded at Windridge station in February (53.7%) was below the data completeness criteria from the AMD. AEP was made aware of the power issue in a seven-day notification letter.

There were 0 exceedances of the 24-hour PM_{2.5} AAAQO, 0 exceedances of the 1-hour PM_{2.5} AAAQG, and 12 exceedances of the 24-hour TSP AAAQO recorded in the limited data collected in February.

Historically in February, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 8 and 0, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in February was 11 days in 2022.

Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on April 8th, 2019. The flood mitigation work was completed in August 2020. The Windridge station was reinstalled for September 1st, 2020. As per the photo presented in section 1.1 the flood mitigation work has left an exposed creek bed area immediately west of the Windridge monitor that may contribute to an increase in TSP levels. Further, the strong wind gusting that occurred in February would have contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 4-2 Summary of February 2023 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	4.8	55.0	10	11	30.3	254.0	7.8	12	53.7
PM₁₀ (µg/m ³)	-	-	Windridge	-	-	1.0	105.2	485.0	6	21	26.7	238.8	174.4	6	53.7
TSP (µg/m ³)	-	100	Windridge	-	12	0.0	146.6	985.0	10	11	30.3	254.0	219.4	6	53.7

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						
2023-02-01	110.4	-	254.4	26.0	64.7	high wind event
2023-02-02	168.9	-	248.9	23.2	48.3	high wind event
2023-02-03	190.5	-	237.5	36.7	28.9	high wind event
2023-02-04	186.4	-	243.3	32.4	40.2	high wind event
2023-02-05	121.9	-	251.3	23.1	46.1	high wind event
2023-02-06	219.4	-	241.3	31.6	36.7	high wind event
2023-02-07	155.2	-	246.3	24.9	44.3	high wind event
2023-02-08	139.9	-	253.3	19.7	48.3	Winds predominately from the southwest
2023-02-09	169.9	-	239.1	31.4	41.1	high wind event
2023-02-10	212.5	-	251.2	24.1	39.0	high wind event
2023-02-11	208.3	-	246.9	30.8	34.9	high wind event
2023-02-12	163.8	-	239.3	37.7	42.8	high wind event
Total # of Exceedances	12	0				
Maximum # of Exceedances (February)	11 (2022)	1 (2022)				
Average # of Exceedances (February)	8	0				

Minimum # of Exceedances (February)	3 (2019)	0 (2018, 2019, 2021)				
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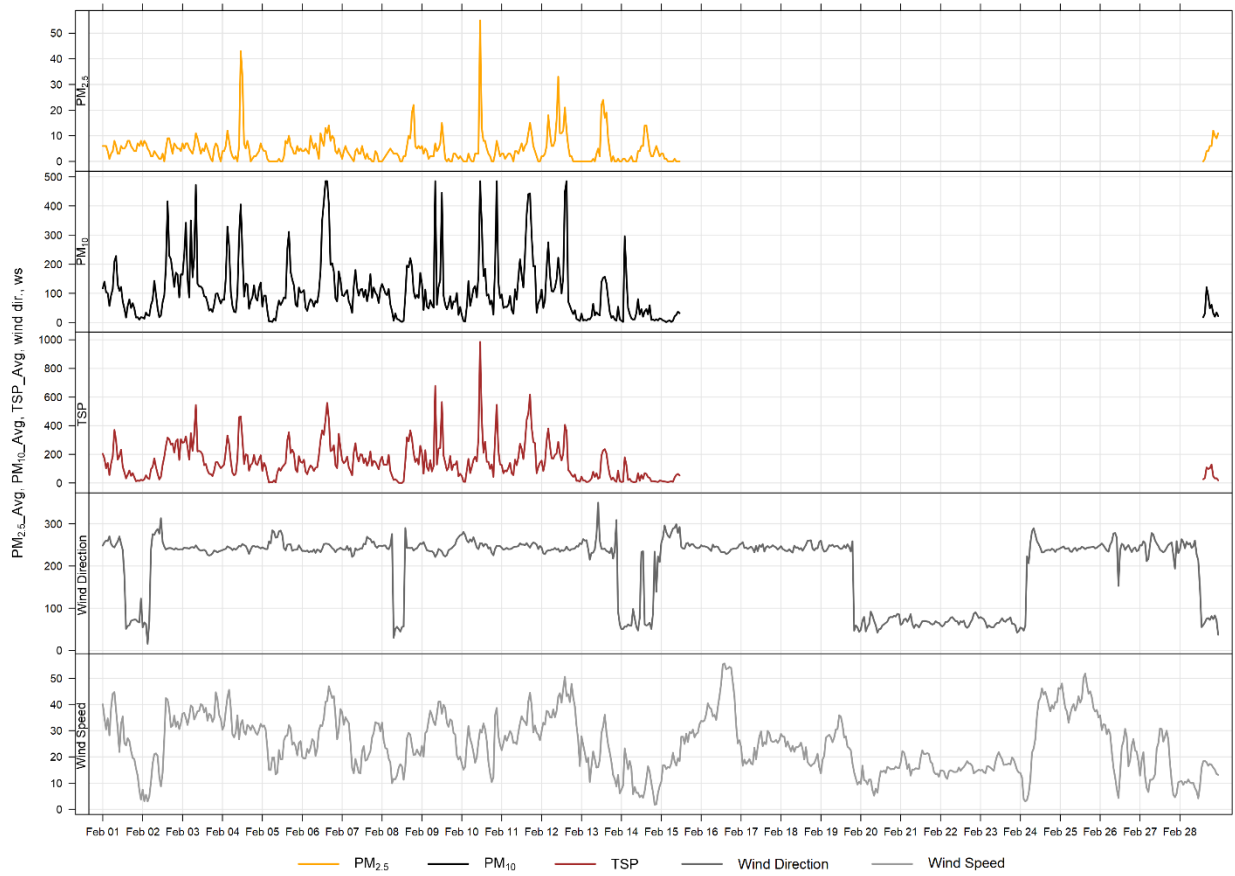


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

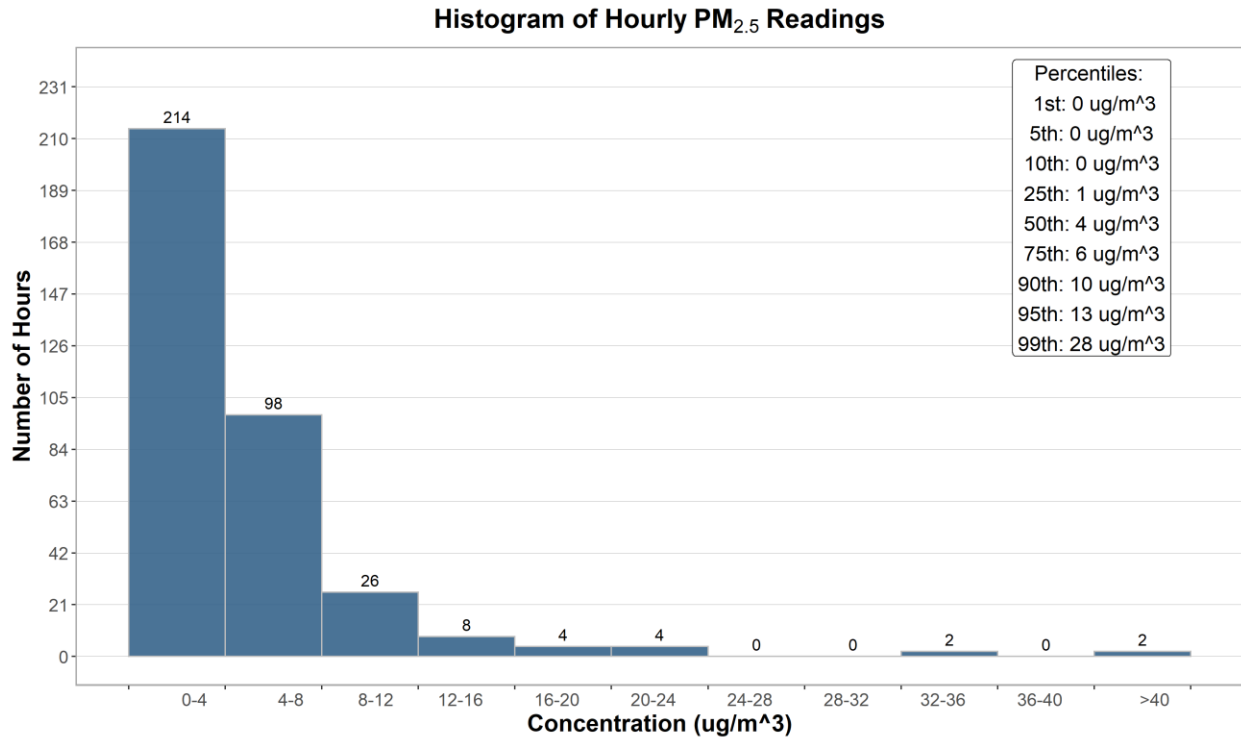


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

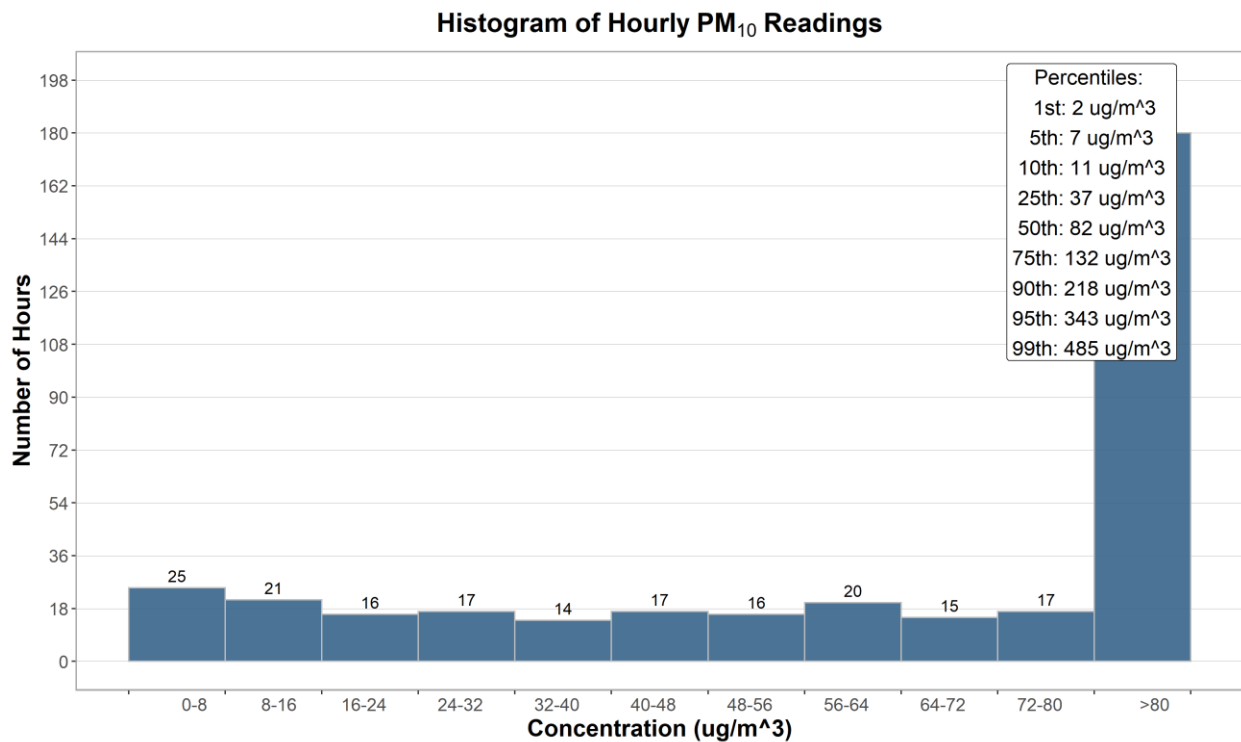


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

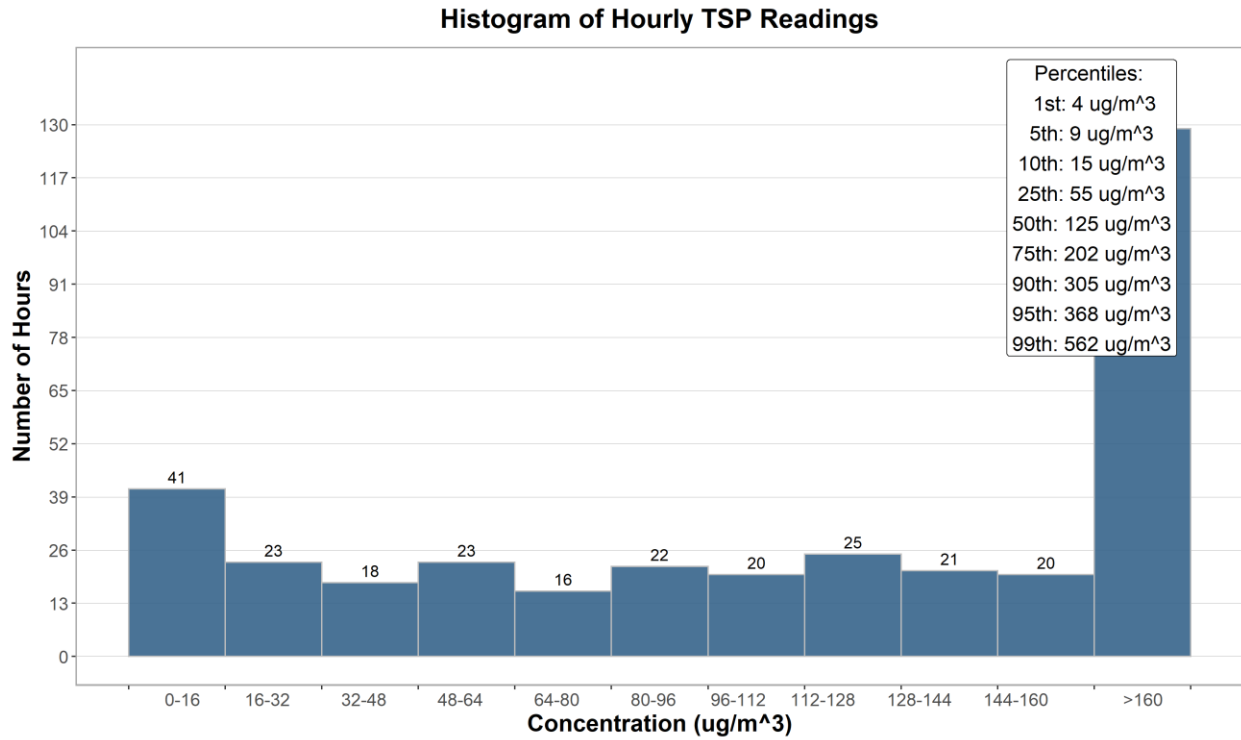


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

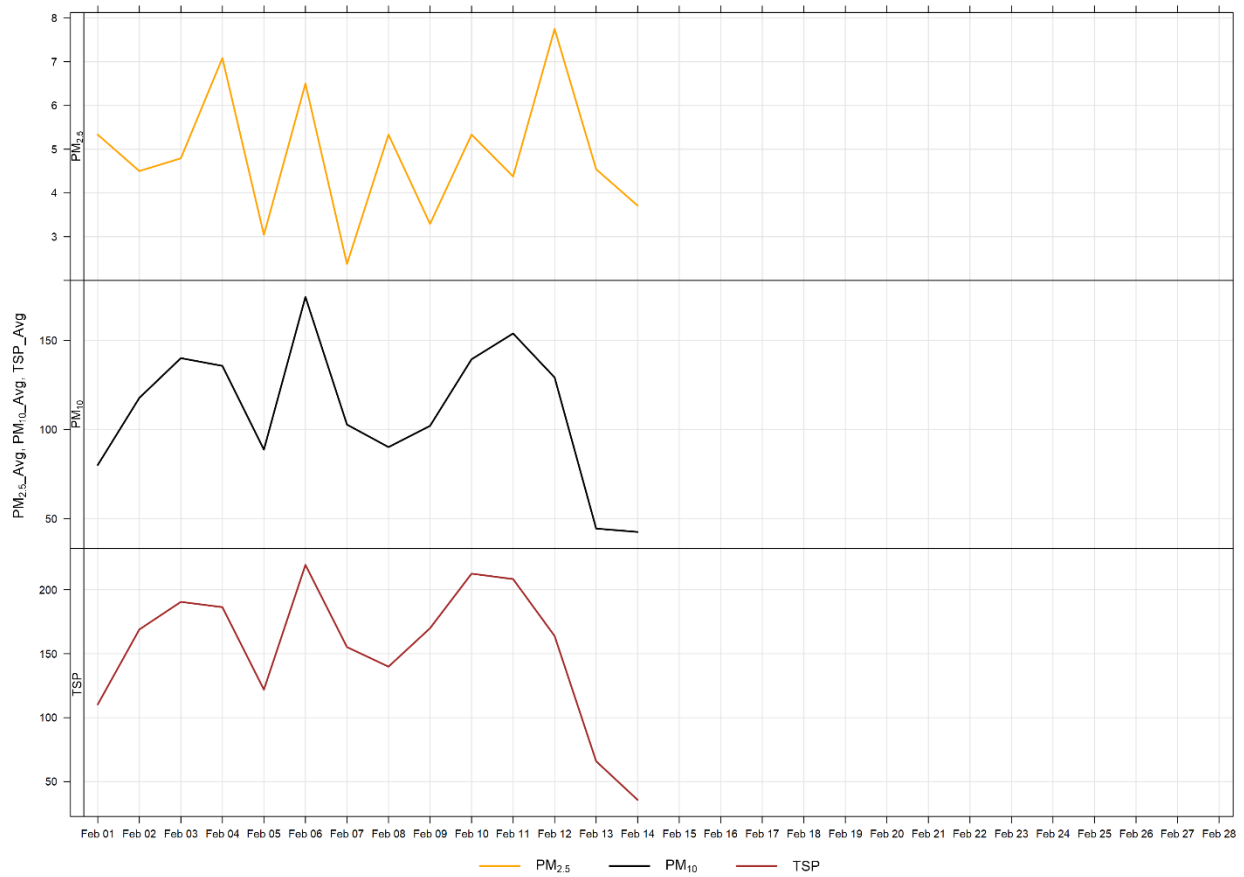


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 12 days of TSP exceedances. The wind roses shows that the winds predominantly came from the west-southwest direction, and were predominantly over 25 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 2023. Similar to the Lagoon station, typically PM concentrations show a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities. The diurnal patterns also follow the diurnal pattern of higher wind speeds during the daytime hours.

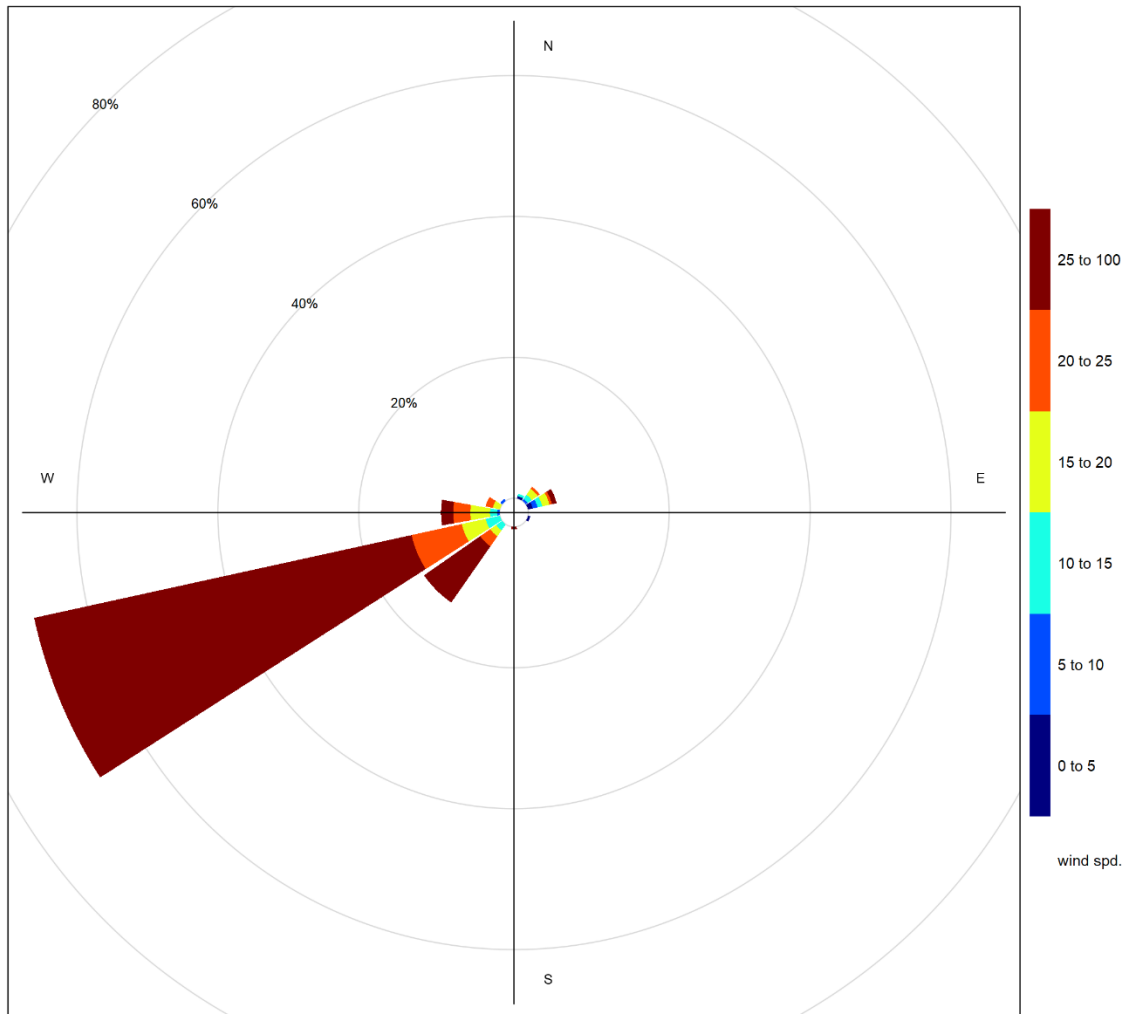


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

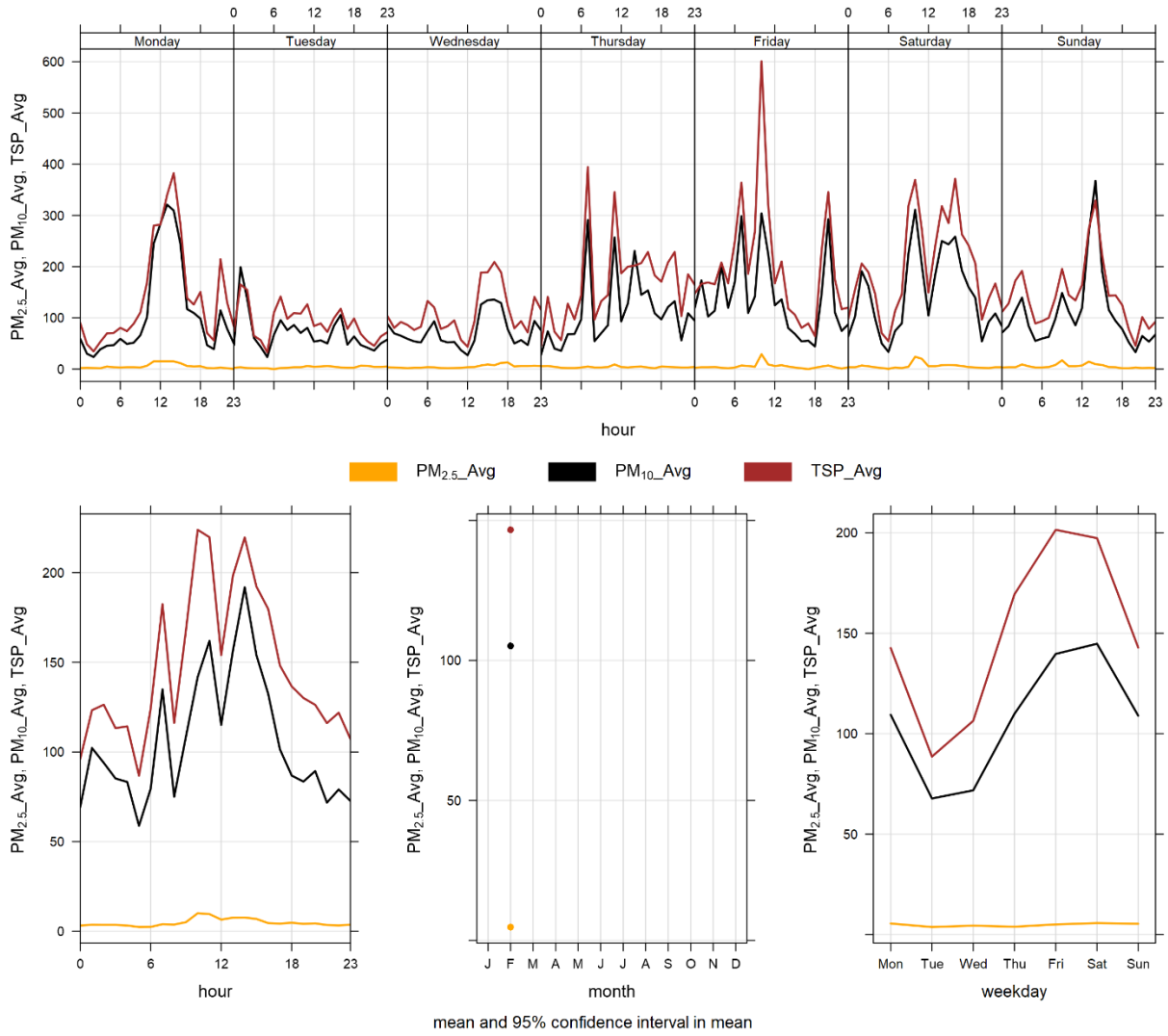


Figure 4-7 Windridge particulate matter time variation

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	The analyzer had 100% uptime during the month of February.

5.2 MONITORING RESULTS AND TRENDS

The West GRIMM was moved to 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. 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 were zero exceedances of the 24-hour TSP Guideline (100 µg/m³) and zero exceedances of the 24-hour PM_{2.5} (29µg/m³) Guideline. Further, there were zero hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of February, the West monitor records an average of 2 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines. The maximum number of 24-hour TSP AAAQO exceedances recorded in February was 11 days in 2010.

Table 5-2 Summary of February 2023 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	0	0.2	3.4	35.8	28	23	13.1	37.0	12.1	28	100.0
PM₁₀ (µg/m ³)	-	-	West	-	-	0.2	4.6	47.1	28	23	13.1	37.0	15.2	28	100.0
TSP (µg/m ³)	-	100	West	-	0	0.2	4.5	46.1	28	23	13.1	37.0	13.5	28	100.0

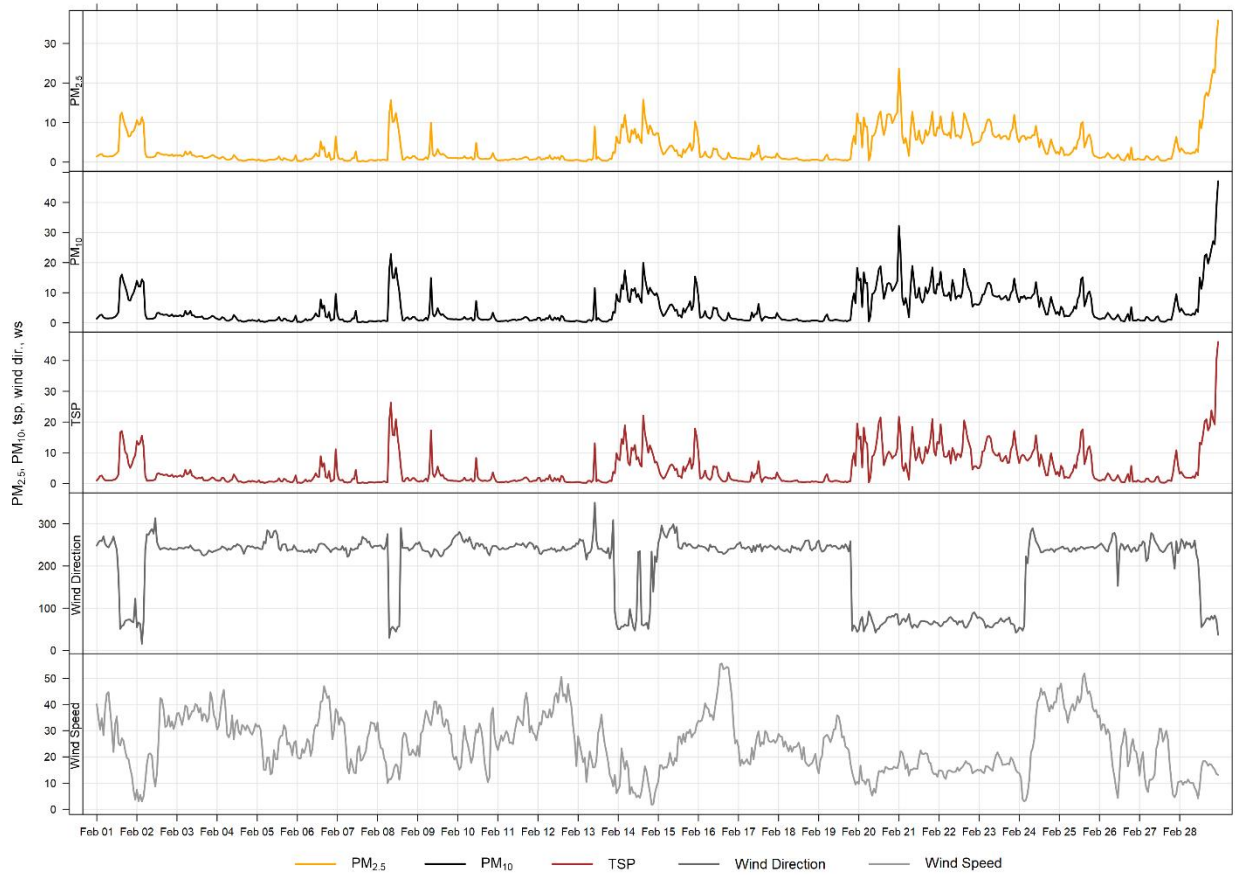


Figure 5-1 1-hour particulate matter concentrations at the West monitor

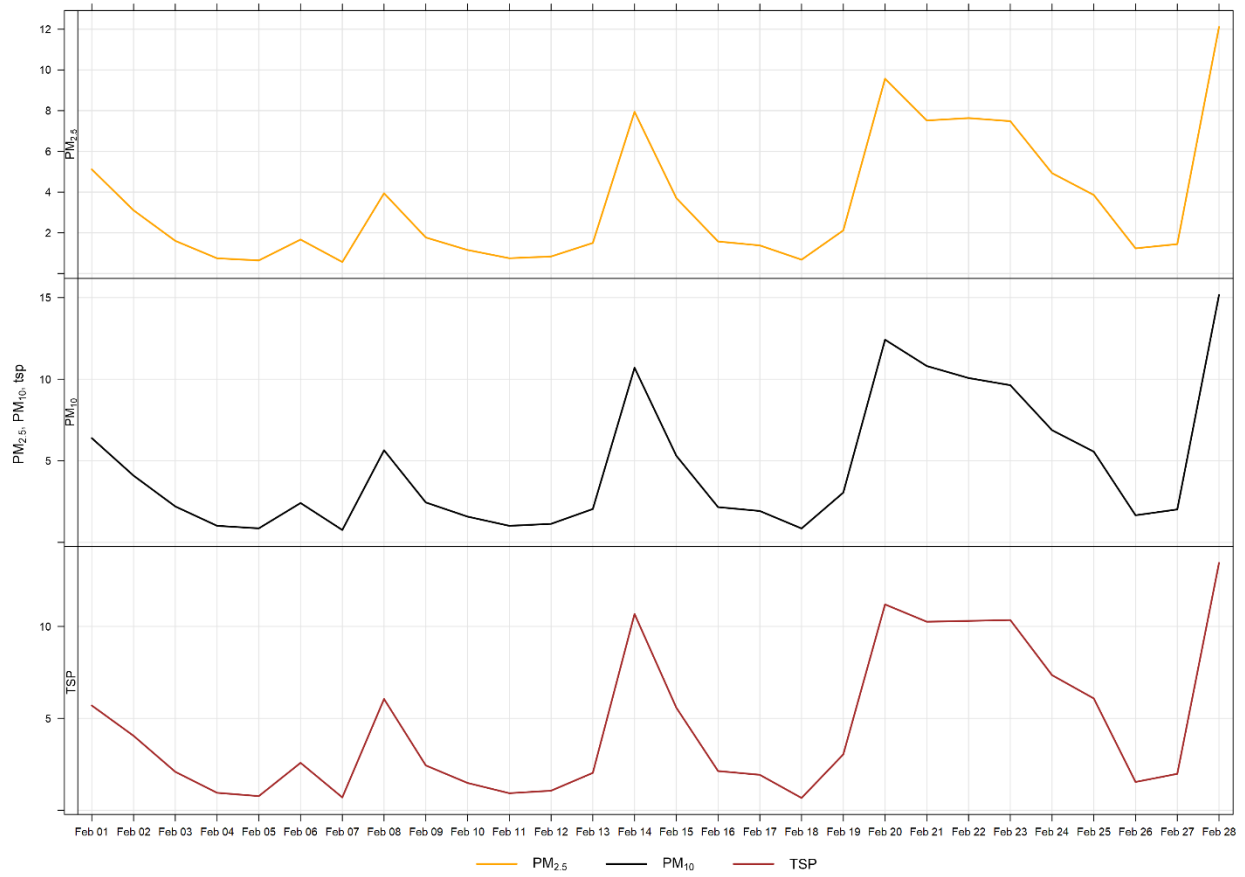


Figure 5-2 24-hour particulate matter concentrations at the West monitor

Figure 5-3 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 5-3 is based on data collected during February 2023. The diurnal pattern differs from the Windridge, Lagoon and Berm stations to the east of Lafarge and are likely more influenced by the switch into northeast wind (Figure 5-1) which results in a spike on February 20th to 24th (Figure 5-2). Historically this monitor saw daily variations in PM that were more likely a result of higher traffic volume during daylight hours than specific Lafarge operations. The West monitor was moved to its current location (Figure 1-1) on December 1st, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.

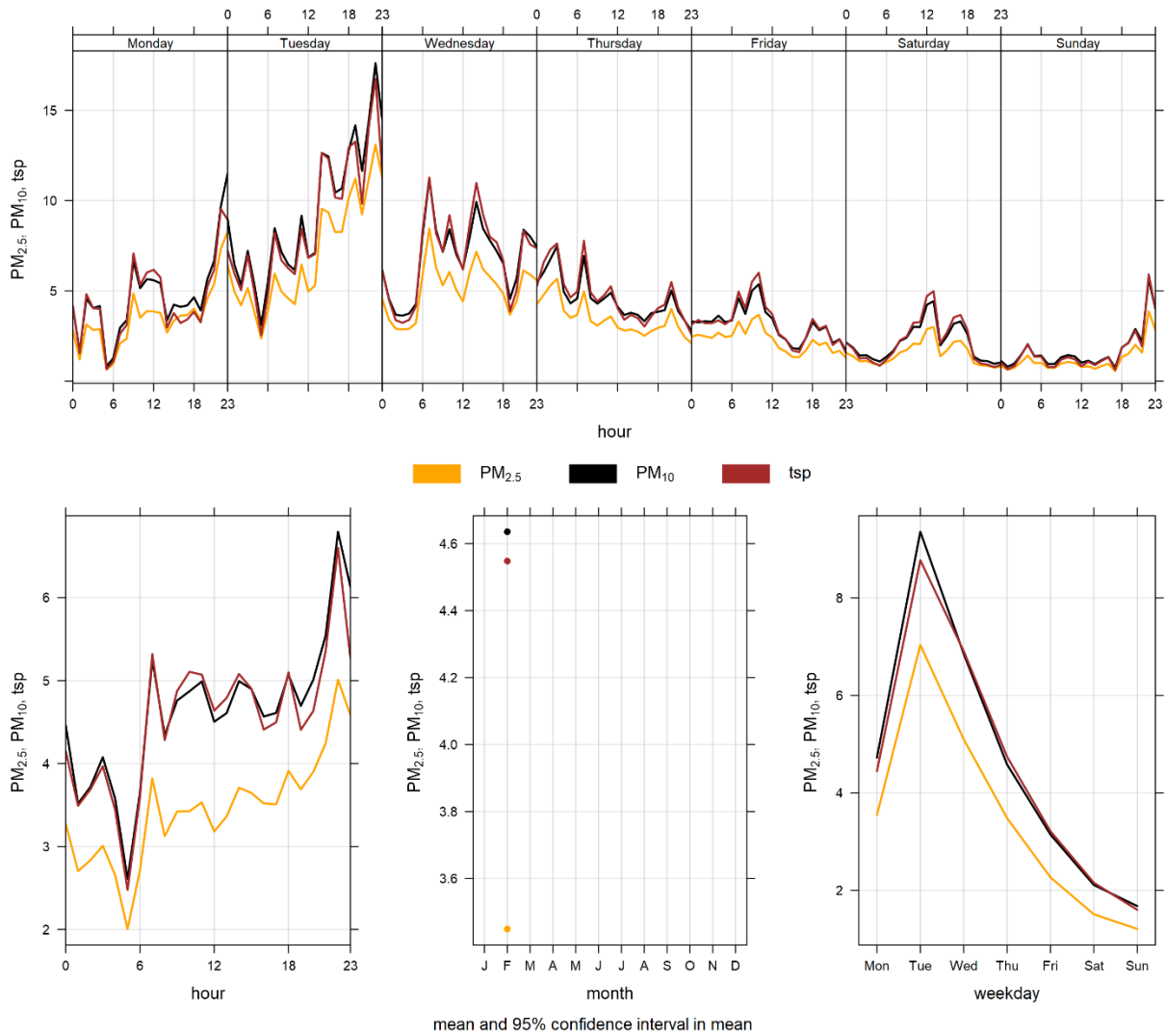


Figure 5-3 West monitor particulate matter time variation

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} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime during the month of February.

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. 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.

There were 22 and 7 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were 9 hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of February, the Berm monitor records an average of 17 and 1 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. On the other hand, the maximum number of PM_{2.5} exceedances in February was 3 days in 2021.

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. The strong wind gusting that occurred in February would have also contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 6-2 Summary of February 2023 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	9	7	0.2	21.1	207.2	10	11	30.3	254.0	42.5	16	100.0
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.2	163.6	1796.2	10	11	30.3	254.0	375.8	16	100.0
TSP (µg/m ³)	-	100	Berm	-	22	0.1	270.8	3746.0	24	12	42.6	243.2	1498.7	24	100.0

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						
2023-02-01	409.1	-	254.4	26.0	64.7	high wind event
2023-02-02	629.0	-	248.9	23.2	48.3	high wind event
2023-02-03	776.5	31	237.5	36.7	28.9	high wind event
2023-02-04	654.5	-	243.3	32.4	40.2	high wind event
2023-02-05	464.1	-	251.3	23.1	46.1	high wind event
2023-02-06	723.8	-	241.3	31.6	36.7	high wind event
2023-02-07	562.1	-	246.3	24.9	44.3	high wind event
2023-02-08	538.8	-	253.3	19.7	48.3	Winds predominately from the southwest
2023-02-09	752.4	30	239.1	31.4	41.1	high wind event
2023-02-10	731.3	33	251.2	24.1	39.0	high wind event
2023-02-11	744.1	-	246.9	30.8	34.9	high wind event
2023-02-12	454.2	-	239.3	37.7	42.8	high wind event
2023-02-13	228.4	-	245.3	18.9	46.7	Winds predominately from the southwest
2023-02-15	640.7	-	258.9	23.7	45.2	high wind event

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						
2023-02-16	1434.1	42	239.6	40.9	42.2	high wind event
2023-02-17	859.4	40	244.0	23.6	39.1	high wind event
2023-02-18	463.2	-	243.2	21.5	40.4	high wind event
2023-02-19	651.0	32	246.0	23.6	51.5	high wind event
2023-02-24	1498.7	38	244.0	30.7	52.5	high wind event
2023-02-25	958.5	-	242.3	41.0	48.7	high wind event
2023-02-26	208.6	-	245.3	22.0	51.4	high wind event
2023-02-27	102.5	-	245.2	16.7	45.5	Winds predominately from the southwest
Total # of Exceedances	22	7				
Maximum # of Exceedances (February)	24 (2013)	3 (2021)				
Average # of Exceedances (February)	17	1				
Minimum # of Exceedances (February)	7 (2019)	0 (2010, 2012, 2013, 2014, 2017)				

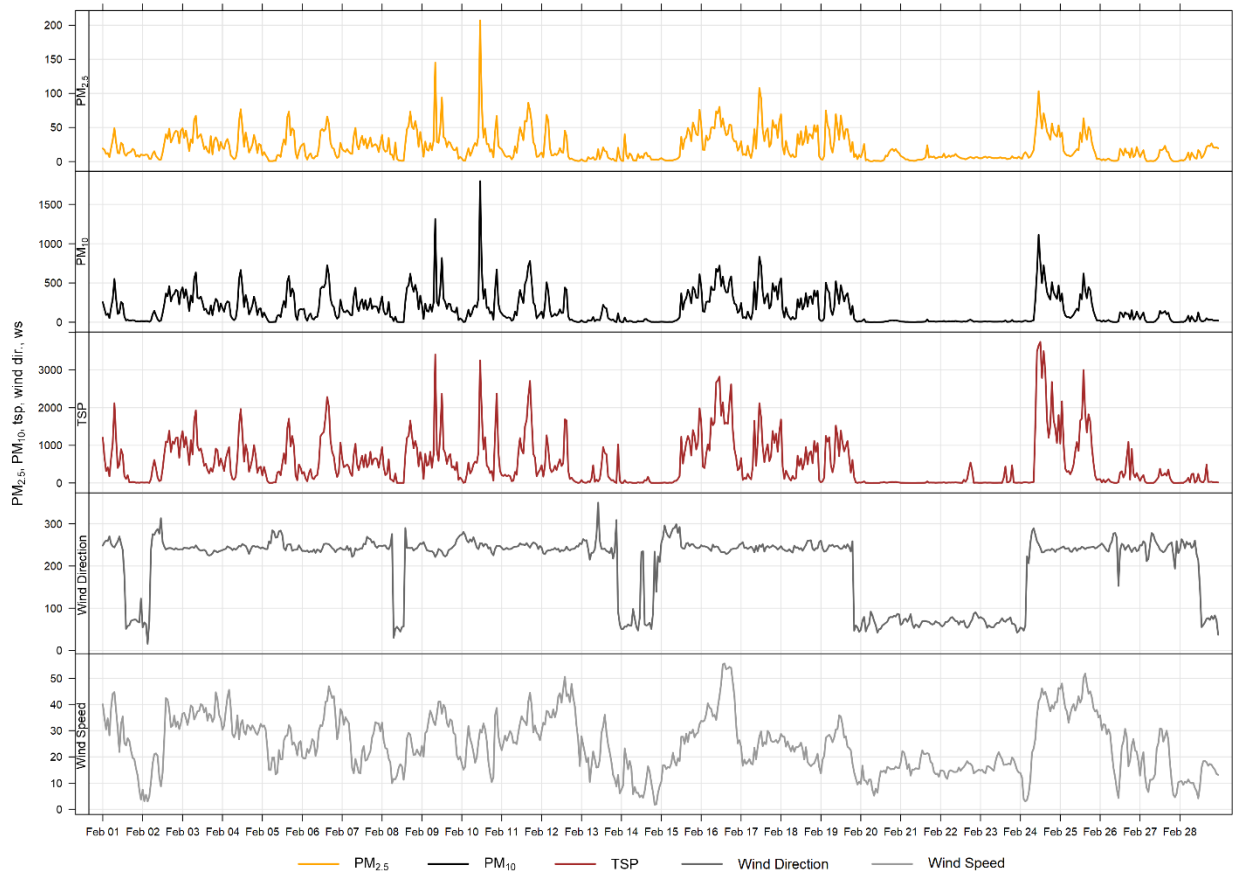


Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

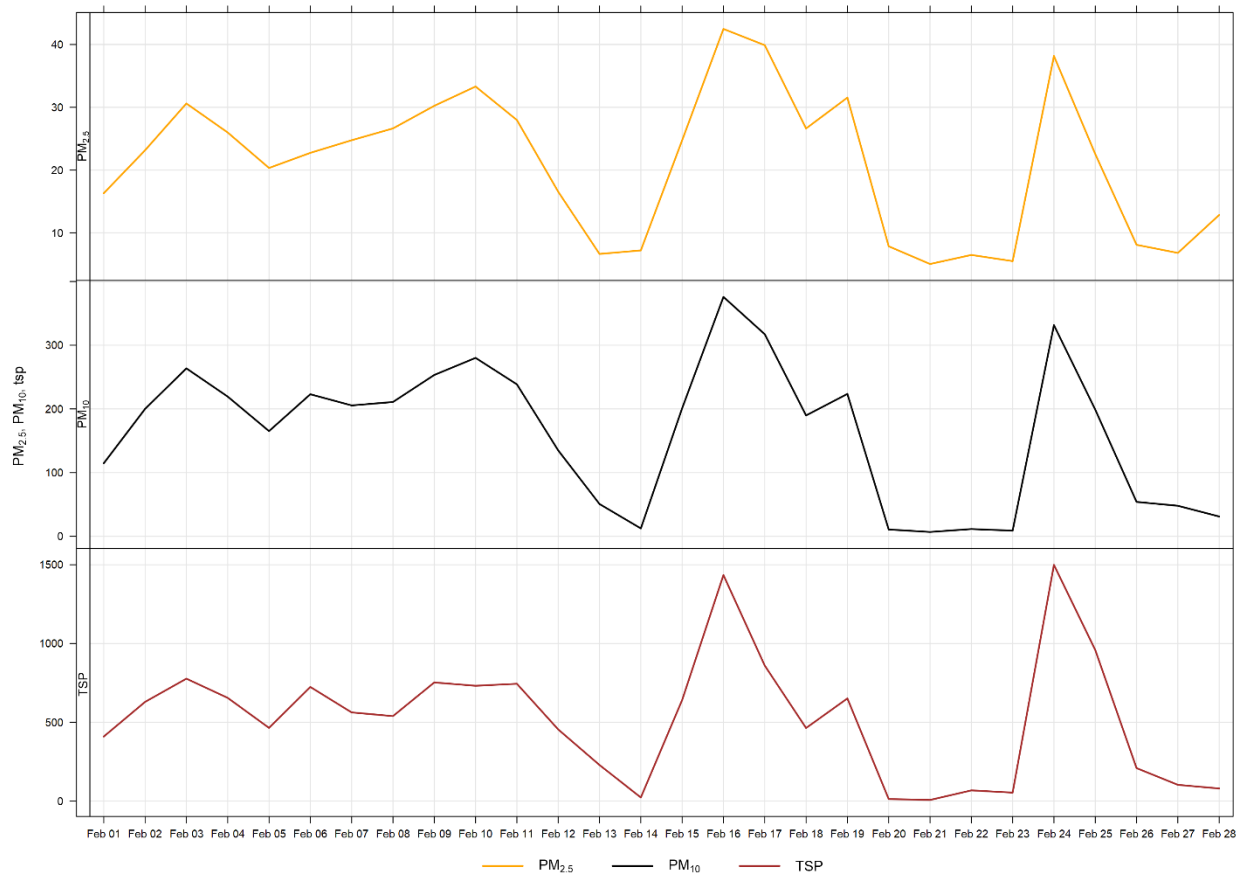


Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 22 days of TSP exceedances. Figure 6-4 shows the wind rose for 7 days of PM_{2.5} exceedances. The wind roses show that the wind predominately came from the west-southwest direction, and were predominately over 20 km/hr. This month many of the TSP exceedances were driven by windblown fugitive dust, and winds from the west which suggest impacts from the Lafarge Facility.

Figure 6-5 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern, similar to the Lagoon station, and is associated with Lafarge operations, but also daytime emissions from other activities and sources in Exshaw.

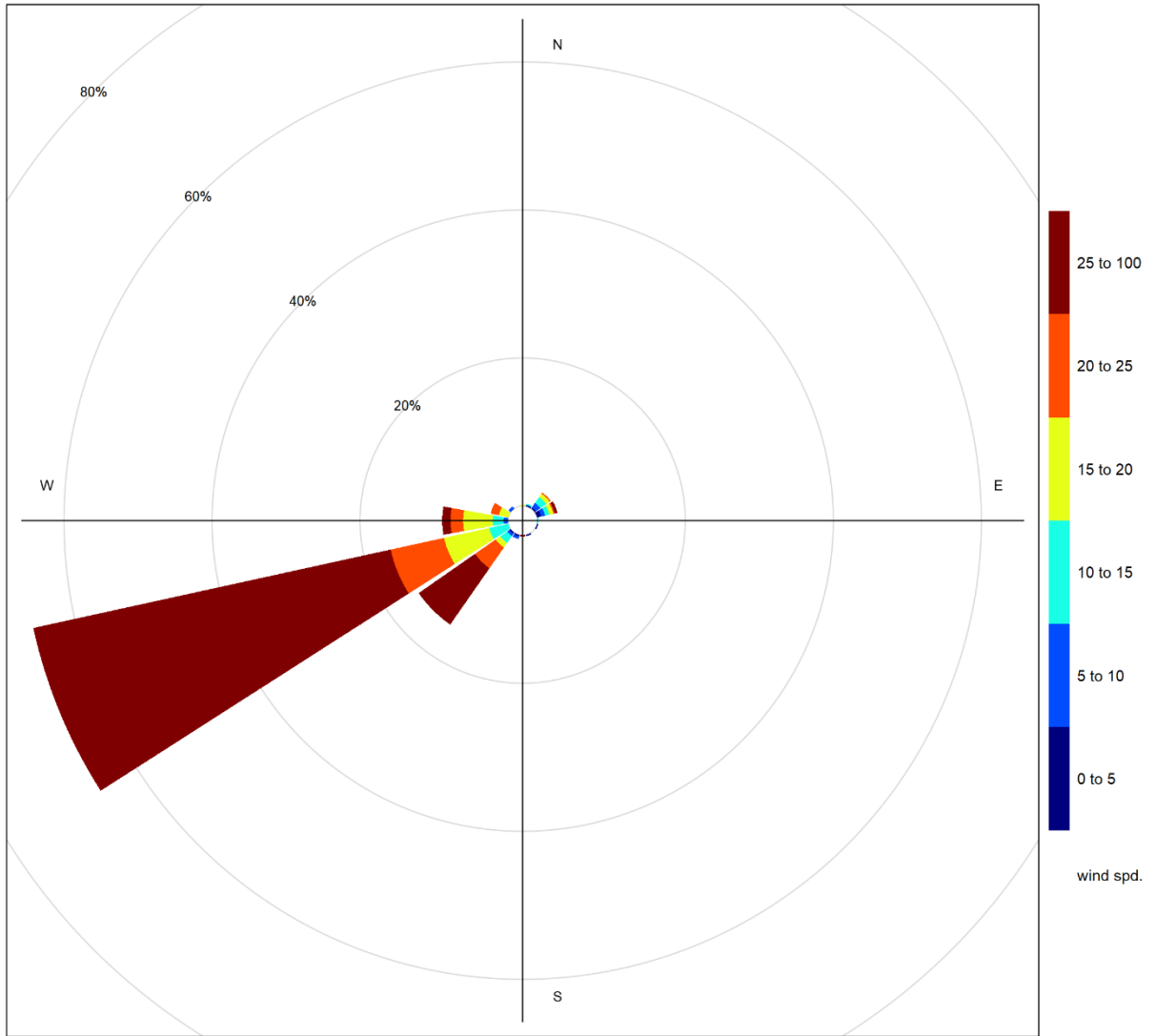


Figure 6-3 Windrose for TSP exceedance days recorded at the Berm GRIMM

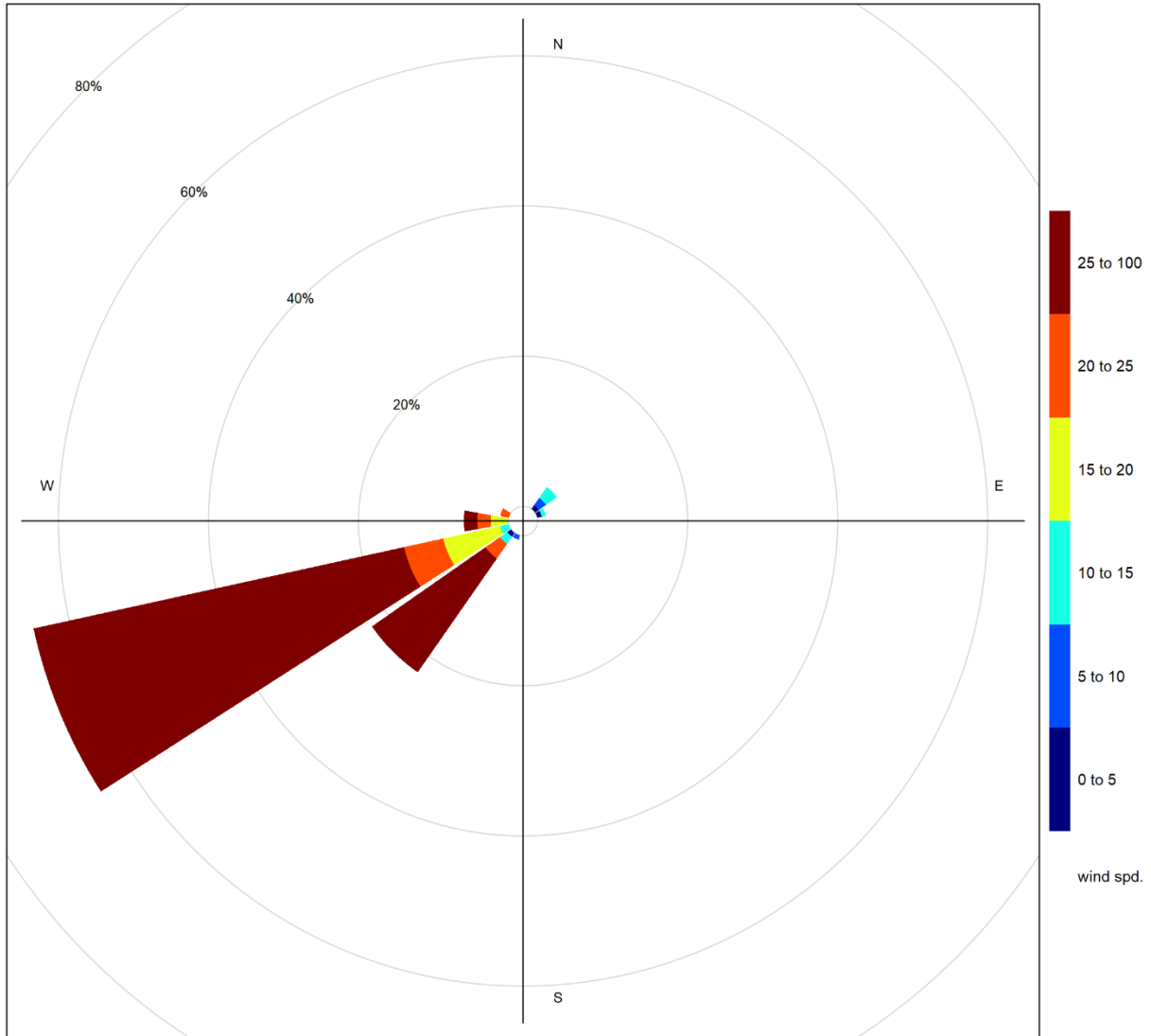


Figure 6-4 Windrose for PM_{2.5} exceedance days recorded at Berm GRIMM

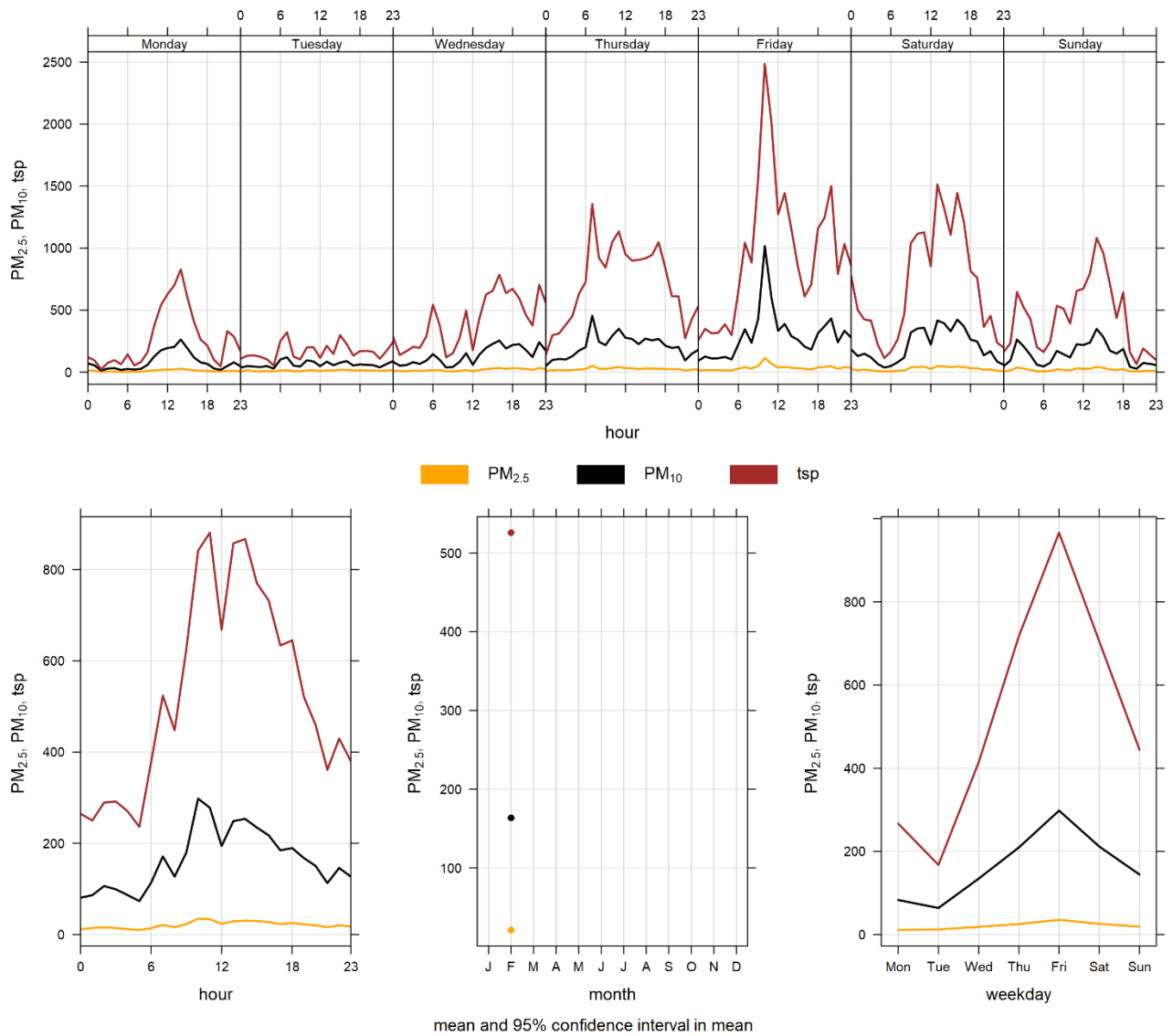


Figure 6-5 Berm particulate matter time variation

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APPENDIX

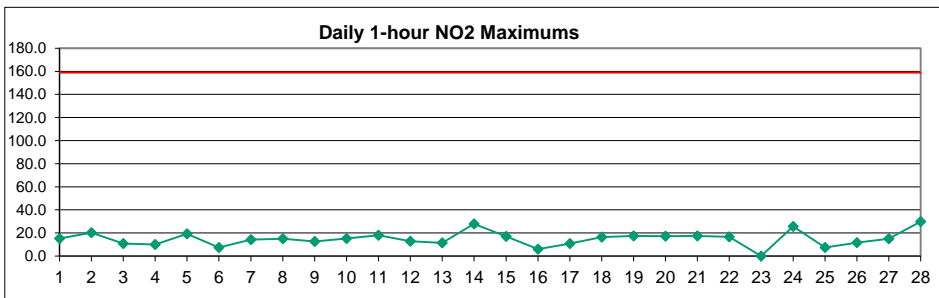
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – February 2023

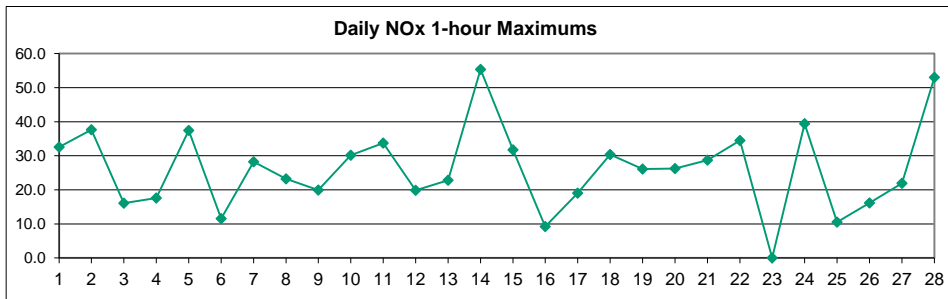
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1	4.2	S	5.6	6.1	5.3	3.6	2.7	7.3	7.5	9.8	5.8	2.8	4.6	9.4	11.4	15.3	6.7	6.2	6.0	6.5	5.0	5.8	7.1	10.1	6.7	15.3
2	20.2	S	18.3	20.1	18.9	12.6	11.0	14.3	16.9	18.9	16.8	12.8	4.9	2.4	4.1	5.5	8.6	4.8	5.7	2.6	1.7	2.7	2.7	2.8	10.0	20.2
3	3.2	S	2.7	3.6	3.4	5.2	6.5	10.9	5.6	2.5	2.3	2.6	2.8	2.1	2.2	2.3	1.6	1.4	1.3	1.4	1.4	1.4	1.4	1.6	3.0	10.9
4	1.9	S	3.6	3.1	2.3	2.9	3.2	2.3	2.4	10.0	5.5	5.2	7.3	4.0	3.3	1.4	2.9	3.4	5.8	6.9	8.9	4.8	2.8	3.7	4.2	10.0
5	5.9	S	3.7	5.1	13.1	7.1	11.8	19.2	15.7	13.1	11.8	7.2	3.8	2.0	7.6	12.0	8.7	2.5	2.8	3.4	3.1	8.9	6.3	2.6	7.7	19.2
6	2.5	S	1.9	1.7	2.1	1.7	5.7	2.8	6.0	3.4	2.3	4.0	7.4	5.5	6.6	5.8	4.8	3.7	2.0	1.3	3.3	4.4	2.7	2.9	3.7	7.4
7	2.1	S	4.7	1.6	3.8	3.4	3.5	6.7	8.5	8.6	11.0	6.0	9.8	10.6	14.2	9.5	8.3	6.6	7.0	4.8	2.8	3.8	7.7	8.2	6.6	14.2
8	8.5	S	6.4	6.1	6.2	15.0	13.6	13.6	10.2	5.5	4.6	10.3	7.6	10.2	4.6	3.7	4.3	5.8	5.7	2.5	5.5	10.8	5.9	4.4	7.4	15.0
9	4.9	S	3.3	2.3	2.0	2.0	2.1	2.5	2.9	2.7	3.2	3.8	2.4	2.4	2.4	2.8	2.2	2.3	4.7	3.0	9.5	10.6	12.6	12.4	4.3	12.6
10	6.6	S	10.2	7.5	10.1	7.4	11.2	12.1	9.7	3.6	15.3	14.5	6.8	10.4	7.7	6.5	12.8	7.8	2.8	3.3	4.2	6.7	10.3	7.7	8.5	15.3
11	4.0	S	3.8	4.8	3.6	4.2	4.1	5.9	8.5	7.0	8.3	7.0	6.6	8.8	11.5	7.7	4.4	10.0	18.1	17.1	16.3	4.4	14.2	10.7	8.3	18.1
12	3.6	S	2.4	2.2	2.1	2.0	2.0	3.1	2.3	2.7	1.9	1.8	1.5	2.2	5.6	2.3	2.6	2.5	4.4	2.8	4.5	8.4	12.8	8.4	3.6	12.8
13	11.2	S	8.0	2.3	4.1	6.2	2.4	8.7	9.1	8.9	7.0	5.1	2.6	4.3	2.1	1.9	1.5	3.9	3.4	4.1	4.5	1.7	9.8	11.5	5.4	11.5
14	16.5	S	12.1	13.6	4.1	10.9	26.0	27.9	21.2	19.1	21.3	18.5	9.3	19.9	24.2	16.2	12.3	5.5	7.1	15.3	17.3	13.6	10.9	14.5	15.6	27.9
15	12.0	S	9.2	11.3	13.7	11.0	10.8	17.0	13.3	12.8	10.0	6.0	2.2	4.1	8.1	7.2	8.4	5.5	11.5	8.5	3.0	7.1	3.1	8.0	8.9	17.0
16	4.5	S	3.6	6.0	2.4	2.0	3.9	3.7	4.0	3.3	2.2	1.5	1.5	1.5	1.7	1.6	1.3	1.7	1.4	1.3	1.8	5.0	4.6	4.7	2.8	6.0
17	9.0	S	4.8	3.0	3.8	3.3	4.7	4.3	8.1	4.0	7.9	7.8	9.0	1.5	4.6	4.9	10.9	8.7	7.2	7.3	3.2	3.7	7.4	4.5	5.8	10.9
18	5.1	S	2.3	2.7	2.9	1.9	1.5	7.6	5.1	5.4	2.6	2.5	1.9	5.0	5.1	10.8	16.5	12.8	7.6	3.4	6.5	3.0	9.8	6.8	5.6	16.5
19	5.6	S	1.7	5.2	9.9	5.6	7.5	8.6	6.2	5.5	4.7	2.4	2.3	6.1	2.5	8.2	6.0	1.8	5.4	17.3	17.5	12.5	4.7	13.8	7.0	17.5
20	2.6	S	5.9	7.5	4.6	1.0	1.7	17.0	4.5	12.8	10.7	12.9	2.1	3.5	4.1	7.2	6.0	4.2	3.4	3.1	3.4	3.6	4.5	17.2	6.2	17.2
21	6.5	S	3.3	3.0	2.0	1.7	3.8	11.2	10.7	3.6	11.1	13.9	5.7	4.0	8.7	16.1	10.7	11.4	15.0	17.5	15.8	5.6	6.0	8.1	8.5	17.5
22	9.8	S	13.1	9.2	9.1	9.6	7.9	7.3	7.6	7.4	6.8	7.1	4.5	4.4	14.2	11.3	16.4	16.7	11.1	8.0	7.9	8.0	8.7	9.0	9.4	16.7
23	10.3	S	11.6	13.8	14.4	20.6	25.0	22.9	11.8	7.7	C	C	C	C	C	C	5.1	7.4	11.4	12.1	10.5	23.0	26.9	25.0	-	-
24	24.1	S	24.6	24.2	25.7	18.8	19.0	11.9	15.5	8.1	5.4	3.4	2.6	2.9	2.8	2.3	2.3	2.3	3.0	2.0	1.8	2.1	1.9	2.0	9.1	25.7
25	2.4	S	2.2	2.8	2.8	2.0	1.9	2.1	4.2	2.8	3.1	3.2	2.9	3.5	1.7	2.1	3.9	3.4	7.5	4.9	3.3	4.6	3.0	7.1	3.4	7.5
26	11.6	S	3.8	2.8	2.5	8.7	7.4	6.9	10.2	9.7	11.3	5.4	3.0	2.4	1.4	3.8	10.9	3.7	3.9	7.3	4.8	1.5	1.5	9.1	5.8	11.6
27	15.1	S	6.2	5.9	13.3	13.0	6.7	6.1	11.8	11.5	6.8	2.1	1.9	1.8	2.0	4.2	6.3	11.1	7.5	6.4	11.8	8.9	10.0	12.4	7.9	15.1
28	14.6	S	19.3	23.5	29.2	26.1	28.2	25.6	28.7	16.1	8.2	16.7	13.8	18.3	13.8	15.5	16.8	19.3	19.3	18.2	16.5	19.6	29.9	19.5	19.9	29.9
NO.	28	-	28	28	28	28	28	28	28	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	638	100.0%
MEAN	8.2	-	7.1	7.2	7.8	7.5	8.4	10.3	9.6	8.1	7.7	6.9	4.8	5.7	6.6	7.0	7.3	6.3	6.9	6.9	7.0	7.0	8.2	8.9	-	-
MAX	24.1	-	24.6	24.2	29.2	26.1	28.2	27.9	28.7	19.1	21.3	18.5	13.8	19.9	24.2	16.2	16.8	19.3	19.3	18.2	17.5	23.0	29.9	25.0	-	-



Number of 1HR Exceedences	0
Number of Non-Zero Readings	638
Maximum 1-HR Average	29.9 PPB
Maximum 24-HR Average	19.9 PPB
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Calibration	6
Standard Deviation	5.7
Monthly Average	7.5 PPB

Lagoon NOx (ppb) – February 2023

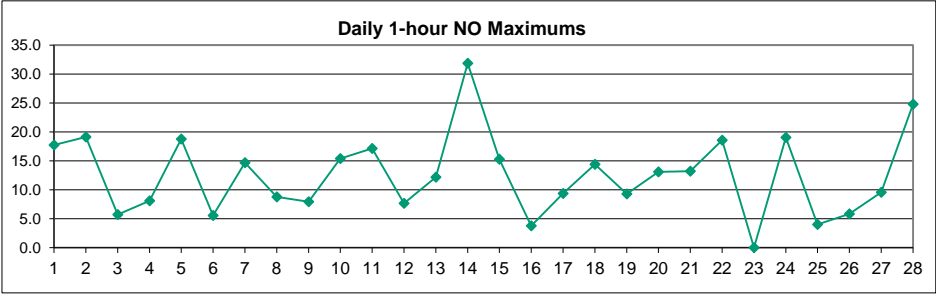
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.4	S	8.5	9.1	9.2	5.6	4.4	11.6	10.5	16.0	8.6	3.8	8.0	17.8	23.0	32.6	8.1	6.5	6.1	6.7	5.1	6.3	7.4	11.9	10.1	32.6
2	25.3	S	23.7	23.9	25.4	18.2	15.8	23.0	30.9	37.7	27.5	20.7	7.2	3.2	5.5	8.0	11.8	6.7	7.2	2.7	1.7	2.9	3.0	3.1	14.6	37.7
3	3.4	S	3.1	4.2	4.1	6.6	8.4	16.1	7.3	3.0	2.9	3.4	3.8	2.4	2.7	3.0	1.7	1.4	1.3	1.4	1.4	1.4	1.4	1.7	3.7	16.1
4	2.1	S	4.0	4.0	2.8	3.3	4.5	2.6	2.7	17.6	8.8	9.2	13.8	5.2	4.8	1.5	3.7	3.7	7.7	8.9	12.8	5.4	3.1	4.6	5.9	17.6
5	8.3	S	4.1	6.8	21.7	9.7	21.7	37.4	23.1	23.2	19.2	11.3	4.8	2.4	13.7	22.4	14.7	2.6	3.0	3.8	3.3	14.7	10.7	2.8	12.4	37.4
6	2.7	S	2.0	1.7	2.3	1.8	7.8	3.3	7.4	4.2	2.7	5.5	11.5	8.2	11.5	8.2	6.1	4.5	2.2	1.3	4.5	6.4	3.2	3.5	4.9	11.5
7	2.3	S	5.4	1.7	4.1	3.6	3.7	7.9	10.7	10.8	13.4	8.0	14.8	17.1	28.3	15.6	13.0	9.8	9.4	5.3	3.1	4.5	10.2	11.4	9.3	28.3
8	12.6	S	7.2	10.3	7.9	23.2	14.9	18.0	11.0	6.7	6.1	17.4	11.1	14.8	6.3	5.0	5.3	7.3	7.6	2.6	6.7	13.6	6.3	4.7	9.9	23.2
9	5.2	S	4.0	2.4	2.0	2.1	2.2	2.8	3.5	3.0	4.2	5.0	2.8	2.9	3.1	3.6	2.4	2.5	5.9	3.4	13.2	14.5	19.9	17.3	5.6	19.9
10	9.4	S	13.7	10.1	16.2	9.9	16.7	17.0	13.7	4.5	30.1	28.0	9.9	20.4	10.9	8.7	18.3	11.9	2.8	3.7	5.1	11.9	17.0	11.0	13.1	30.1
11	4.7	S	4.2	5.7	4.9	5.2	4.4	6.7	10.5	9.7	13.0	12.3	12.1	14.3	22.2	13.1	6.0	17.0	33.7	33.7	30.3	6.1	24.6	17.6	13.6	33.7
12	5.0	S	2.7	2.3	2.5	2.2	2.2	3.4	2.4	3.1	2.2	2.1	1.5	3.0	9.3	3.0	3.0	2.9	5.8	3.2	5.4	11.0	19.9	14.0	4.9	19.9
13	22.8	S	12.0	2.4	4.1	8.0	2.7	15.1	11.2	12.0	8.6	7.3	3.6	7.2	2.6	2.3	1.8	4.2	3.5	4.2	4.6	1.8	14.5	13.1	7.4	22.8
14	19.5	S	19.8	18.7	4.5	18.5	35.9	48.6	28.9	27.7	38.2	34.8	15.7	51.4	55.4	26.1	15.3	6.0	7.1	22.4	19.6	14.2	11.0	18.2	24.2	55.4
15	16.4	S	14.9	16.9	26.0	18.8	18.4	31.7	22.0	23.2	18.5	9.3	3.0	6.2	13.6	11.8	13.0	6.7	18.8	12.1	3.1	9.5	3.3	12.5	14.3	31.7
16	5.4	S	4.2	9.2	2.6	2.2	4.6	5.0	5.6	4.6	2.9	1.7	1.6	1.8	2.3	1.9	1.6	2.0	1.4	1.3	1.8	5.8	5.1	5.3	3.5	9.2
17	11.8	S	5.2	3.4	4.4	3.5	5.8	5.4	10.3	5.4	15.2	15.5	17.8	1.7	7.6	7.1	19.1	13.5	9.9	10.0	4.3	5.2	9.8	6.0	8.6	19.1
18	7.1	S	2.6	3.4	3.2	2.2	1.6	10.5	6.5	8.9	3.2	3.3	2.7	7.8	7.7	17.3	30.4	20.4	9.2	4.0	9.0	3.1	15.4	9.3	8.2	30.4
19	8.3	S	1.9	6.7	14.7	6.9	11.2	11.1	7.4	6.6	7.2	3.1	3.1	10.2	3.1	13.0	8.3	2.0	5.9	26.1	22.8	15.4	5.6	17.6	9.5	26.1
20	3.1	S	7.1	9.1	5.1	1.0	1.6	25.3	4.9	15.9	18.7	25.5	2.8	4.8	5.6	12.1	8.2	4.9	3.5	3.1	3.5	3.6	4.9	26.3	8.7	26.3
21	7.5	S	3.6	3.2	2.2	1.7	4.1	14.9	14.8	4.4	17.8	23.5	9.2	5.8	18.7	28.7	16.7	15.7	20.5	25.3	22.1	5.9	6.3	10.2	12.3	28.7
22	12.3	S	16.8	9.9	10.2	10.5	8.0	7.4	9.1	9.8	11.9	13.7	7.6	7.1	32.2	21.4	34.5	27.8	15.6	8.0	8.0	7.9	8.6	9.0	13.4	34.5
23	10.2	S	11.8	16.8	16.1	28.8	31.1	28.9	14.6	11.1	C	C	C	C	C	C	6.3	8.2	14.4	15.6	11.1	38.9	47.1	39.9	-	-
24	39.5	S	35.2	24.7	28.8	24.3	37.5	17.4	31.7	15.0	12.1	5.5	3.8	4.6	4.3	3.0	2.9	2.5	3.5	2.1	1.7	2.1	2.0	2.1	13.3	39.5
25	2.9	S	2.5	3.3	3.1	2.1	1.9	2.3	5.4	3.8	4.6	5.3	4.3	5.9	2.2	2.9	5.6	4.2	10.5	5.7	3.9	6.0	3.3	10.4	4.4	10.5
26	16.0	S	4.2	2.8	2.6	12.6	9.4	8.5	14.1	13.6	14.4	7.2	4.1	3.2	1.6	5.3	16.1	4.2	5.3	10.2	6.7	1.6	1.6	9.6	7.6	16.1
27	21.9	S	8.0	5.9	18.9	16.0	7.6	7.1	17.1	20.3	12.5	2.9	2.7	2.4	2.6	7.2	8.7	18.7	8.4	6.7	12.1	10.1	11.0	12.6	10.5	21.9
28	18.8	S	20.8	41.7	51.2	43.5	35.5	37.5	53.0	36.1	14.3	35.1	24.7	37.4	19.5	19.6	19.6	20.8	19.4	18.4	16.6	21.6	40.8	21.1	29.0	53.0
NO.	28	-	28	28	28	28	28	28	28	28	27	27	27	27	27	28	28	28	28	28	28	28	28	28	638	100.0%
MEAN	11.1	-	9.0	9.3	10.7	10.4	11.6	15.2	13.9	12.8	12.5	11.9	7.7	10.0	11.9	11.3	10.8	8.5	8.9	9.0	8.7	9.0	11.3	11.7		
MAX	39.5	-	35.2	41.7	51.2	43.5	37.5	48.6	53.0	37.7	38.2	35.1	24.7	51.4	55.4	32.6	34.5	27.8	33.7	33.7	30.3	38.9	47.1	39.9		



Number of Non-Zero Readings	638		
Maximum 1-HR Average	55.4 PPB		
Maximum 24-HR Average	29.0 PPB		
Monthly Calibration	6	Operational Time	672 HRS
Standard Deviation	9.528	Operational Uptime	100.0 %
		Monthly Average	10.7 PPB

Lagoon NO (ppb) – February 2023

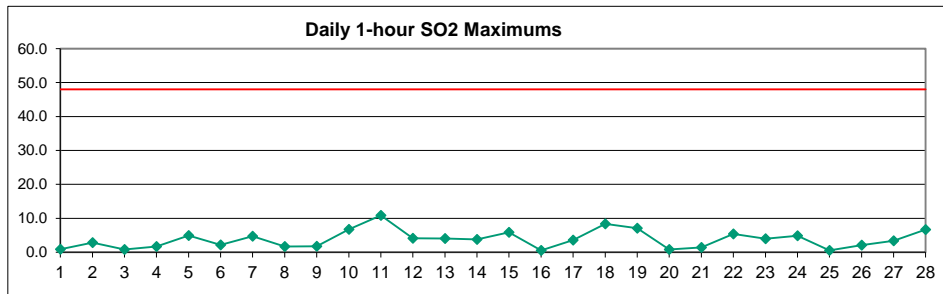
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.7	S	3.4	3.5	4.3	2.4	2.2	4.8	3.5	6.7	3.4	1.5	3.9	9.0	12.1	17.7	2.0	0.8	0.7	0.7	1.0	0.9	2.3	3.9	17.7	
2	5.6	S	5.8	4.2	7.0	6.1	5.4	9.2	14.4	19.1	11.1	8.4	2.7	1.1	1.9	2.9	3.7	2.3	2.1	0.7	0.5	0.7	0.8	0.8	5.1	19.1
3	0.7	S	0.8	1.1	1.2	1.9	2.3	5.7	2.2	1.0	1.1	1.3	1.5	0.7	1.0	1.2	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.6	1.3	5.7
4	0.8	S	1.0	1.4	1.0	0.9	1.8	0.8	0.8	8.1	3.8	4.6	7.1	1.7	2.1	0.7	1.2	0.9	2.4	2.6	4.4	1.2	0.8	1.4	2.2	8.1
5	3.0	S	1.0	2.2	9.3	3.1	10.4	18.8	8.0	10.7	8.0	4.7	1.5	0.9	6.6	11.0	6.5	0.7	0.7	0.9	0.7	6.4	5.0	0.8	5.2	18.8
6	0.7	S	0.7	0.6	0.7	0.7	2.6	1.0	2.0	1.3	1.0	2.0	4.7	3.2	5.6	3.0	1.8	1.3	0.8	0.6	1.7	2.5	1.0	1.2	1.8	5.6
7	0.7	S	1.2	0.7	0.9	0.8	0.8	1.8	2.8	2.8	3.1	2.6	5.6	7.1	14.7	6.7	5.3	3.8	3.1	1.1	0.8	1.2	3.1	3.7	3.2	14.7
8	4.7	S	1.4	4.8	2.3	8.8	1.9	4.9	1.4	1.7	2.0	7.6	4.1	5.2	2.2	1.8	1.6	2.0	2.4	0.7	1.7	3.4	1.0	0.9	3.0	8.8
9	0.9	S	1.3	0.6	0.6	0.7	0.7	0.8	1.1	0.9	1.6	1.8	1.0	1.0	1.1	1.3	0.8	0.7	1.8	1.0	4.3	4.5	8.0	5.6	1.8	8.0
10	3.3	S	4.2	3.2	6.8	3.1	6.0	5.4	4.6	1.4	15.4	14.1	3.8	10.6	3.9	2.7	6.1	4.7	0.6	1.1	1.6	5.7	7.4	4.0	5.2	15.4
11	1.2	S	1.0	1.4	1.8	1.6	0.9	1.3	2.5	3.3	5.4	5.9	6.1	6.0	11.3	6.0	2.1	7.7	16.2	17.2	14.5	2.2	10.9	7.5	5.8	17.2
12	1.9	S	0.9	0.7	0.9	0.7	0.7	0.9	0.7	0.9	0.7	0.8	0.6	1.4	4.3	1.3	0.9	1.0	2.0	1.0	1.4	3.2	7.6	6.3	1.8	7.6
13	12.2	S	4.6	0.7	0.6	2.4	0.8	7.0	2.7	3.7	2.2	2.8	1.4	3.4	1.0	1.0	0.8	0.8	0.6	0.7	0.7	0.7	5.3	2.2	2.5	12.2
14	3.6	S	8.2	5.6	1.0	8.2	10.3	21.2	8.2	9.1	17.3	16.7	7.0	31.9	31.5	10.5	3.6	1.1	0.6	7.7	2.8	1.2	0.7	4.2	9.2	31.9
15	5.0	S	6.3	6.2	12.9	8.4	8.2	15.3	9.3	11.0	9.2	3.9	1.3	2.7	6.2	5.3	5.2	1.8	7.9	4.1	0.8	3.0	0.8	5.1	6.1	15.3
16	1.5	S	1.1	3.8	0.8	0.7	1.3	1.9	2.1	1.8	1.3	0.7	0.7	0.8	1.1	0.9	0.8	0.9	0.6	0.6	0.5	1.4	1.0	1.2	1.2	3.8
17	3.4	S	1.0	0.9	1.1	0.8	1.6	1.6	2.8	2.0	7.9	8.3	9.4	0.7	3.5	2.9	8.7	5.4	3.3	3.3	1.7	2.1	3.0	2.1	3.4	9.4
18	2.6	S	0.7	1.3	0.8	0.8	0.7	3.5	1.9	4.1	1.1	1.3	1.2	3.5	3.2	7.1	14.4	8.3	2.2	1.2	3.1	0.7	6.2	3.0	3.2	14.4
19	3.2	S	0.7	2.1	5.5	1.9	4.3	3.1	1.8	1.7	3.0	1.2	1.3	4.7	1.1	5.3	2.8	0.7	1.0	9.3	5.8	3.5	1.5	4.4	3.0	9.3
20	1.1	S	1.7	2.1	1.1	0.6	0.6	8.9	0.9	3.7	8.7	13.1	1.2	1.8	2.0	5.4	2.8	1.2	0.6	0.6	0.6	0.6	0.9	9.6	3.0	13.1
21	1.6	S	0.8	0.7	0.7	0.6	0.9	4.3	4.7	1.3	7.2	10.2	4.1	2.3	10.6	13.2	6.7	5.0	6.0	8.4	6.8	0.9	0.8	2.8	4.4	13.2
22	3.1	S	4.4	1.3	1.7	1.5	0.7	0.7	2.1	3.0	5.7	7.2	3.7	3.3	18.6	10.7	18.6	11.7	5.0	0.6	0.7	0.6	0.7	4.6	18.6	11.7
23	0.6	S	0.9	3.6	2.2	8.8	6.6	6.5	3.4	4.1	C	C	C	C	C	C	1.8	1.5	3.7	4.2	1.3	16.5	20.7	15.5	-	-
24	15.9	S	11.1	1.1	3.7	6.1	19.1	6.1	16.7	7.6	7.4	2.8	1.8	2.3	2.2	1.3	1.2	0.9	1.1	0.7	0.6	0.7	0.7	0.8	4.9	19.1
25	1.0	S	0.8	1.1	0.9	0.7	0.7	0.8	1.8	1.6	2.2	2.8	2.1	3.0	1.0	1.4	2.4	1.3	3.7	1.5	1.2	2.0	1.0	4.0	1.7	4.0
26	5.1	S	1.0	0.7	0.7	4.6	2.7	2.3	4.7	4.7	3.8	2.4	1.7	1.4	0.9	2.1	5.8	1.2	2.1	3.6	2.6	0.7	0.7	1.2	2.5	5.8
27	7.4	S	2.4	0.7	6.3	3.7	1.5	1.7	6.0	9.6	6.3	1.4	1.4	1.2	1.2	3.7	3.1	8.3	1.5	1.1	1.0	1.9	1.7	0.9	3.2	9.6
28	4.9	S	2.2	18.8	22.6	18.0	7.9	12.4	24.8	20.6	6.8	19.0	11.6	19.8	6.3	4.7	3.5	2.2	0.8	0.8	0.7	2.7	11.5	2.2	9.8	24.8
NO.	28	-	28	28	28	28	28	28	28	28	27	27	27	27	27	27	28	28	28	28	28	28	28	28	638	100.0%
MEAN	3.5	-	2.5	2.7	3.5	3.5	3.7	5.5	4.9	5.3	5.4	5.5	3.4	4.8	5.8	4.9	4.1	2.8	2.7	2.7	2.3	2.6	3.7	3.4		
MAX	15.9	-	11.1	18.8	22.6	18.0	19.1	21.2	24.8	20.6	17.3	19.0	11.6	31.9	31.5	17.7	18.6	11.7	16.2	17.2	14.5	16.5	20.7	15.5		



Number of Non-Zero Readings	638
Maximum 1-HR Average	31.9 PPB
Maximum 24-HR Average	9.8 PPB
Monthly Calibration	6
Standard Deviation	4.459
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	3.9 PPB

Lagoon SO₂ (ppb) – February 2023

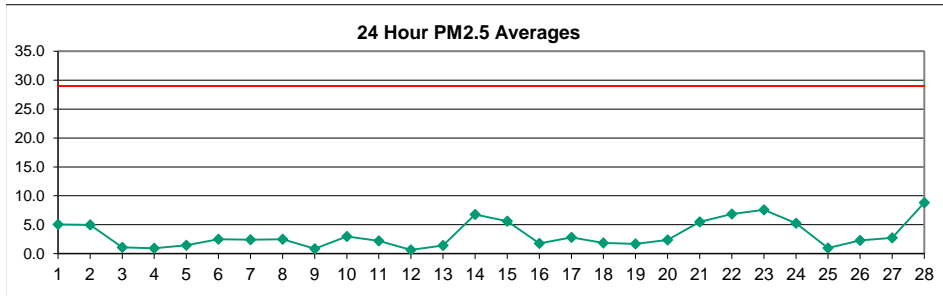
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.3	S	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.8	0.6	0.4	0.5	0.5	0.7	0.8	0.6	0.7	0.7	0.9	0.5	0.3	0.2	0.2	0.5	0.9
2	0.4	S	0.1	0.4	1.3	1.8	1.3	1.9	2.8	2.8	2.3	2.0	0.7	0.4	0.4	0.8	1.1	0.7	0.3	0.3	0.3	0.2	0.3	1.0	2.8	
3	0.5	S	0.3	0.3	0.6	0.4	0.6	0.8	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.8	
4	0.5	S	0.4	0.4	0.5	0.5	0.6	0.4	0.4	1.4	1.2	1.3	1.7	0.6	0.8	0.0	0.3	0.4	0.4	0.5	0.4	0.4	0.5	0.4	1.7	
5	0.4	S	0.3	0.6	0.6	0.9	2.6	4.9	2.8	3.2	2.9	1.8	0.7	0.7	1.6	1.9	2.5	0.7	0.6	0.5	0.6	1.8	1.4	0.5	4.9	
6	0.4	S	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.6	1.8	1.3	2.1	0.8	0.5	0.5	0.4	0.4	0.5	0.8	0.4	0.4	2.1	
7	0.5	S	0.3	0.4	0.3	0.3	0.5	0.4	0.5	0.5	0.5	0.5	0.4	1.4	4.7	2.3	2.2	1.6	2.2	0.7	0.6	0.6	0.6	0.6	4.7	
8	1.5	S	0.4	1.0	0.9	0.9	0.6	0.5	0.4	0.5	0.7	1.7	1.4	1.2	0.6	0.3	0.3	0.5	0.3	0.2	0.2	0.3	0.3	0.2	1.7	
9	0.3	S	0.1	0.2	0.0	0.1	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.2	0.3	0.4	0.9	1.3	1.8	1.5	1.8	
10	1.1	S	1.9	1.7	2.9	2.4	2.1	1.7	0.9	0.5	6.7	4.1	0.8	3.7	3.1	1.4	1.7	1.2	0.5	0.5	0.7	2.0	2.5	1.8	6.7	
11	0.5	S	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.9	1.7	2.1	2.1	1.6	5.1	3.5	2.1	9.3	10.8	9.0	7.8	1.1	5.3	4.4	10.8	
12	1.0	S	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	4.1	1.6	0.8	0.9	0.8	0.7	0.9	0.6	2.2	2.4	4.1	
13	4.1	S	2.1	0.8	1.0	1.1	0.7	0.9	0.9	0.7	0.9	0.7	0.8	1.5	0.6	0.6	0.6	0.5	0.6	0.9	0.6	0.6	0.7	0.6	4.1	
14	0.8	S	0.6	0.6	0.7	0.7	0.6	0.9	0.6	0.6	0.7	0.9	0.8	3.8	3.2	1.5	0.8	0.5	0.3	0.5	0.4	0.4	0.4	1.2	3.8	
15	1.1	S	1.2	1.2	3.2	1.4	2.8	5.9	3.9	1.7	2.2	0.5	0.4	1.4	4.8	3.3	0.7	0.4	1.4	1.3	0.5	0.5	0.4	0.5	5.9	
16	0.4	S	0.2	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	
17	0.7	S	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	3.2	1.5	3.6	0.4	1.8	1.5	2.2	1.6	2.7	2.0	1.1	1.7	1.2	1.7	3.6	
18	0.8	S	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.7	1.9	1.7	5.1	8.3	4.1	1.4	0.7	0.8	0.4	0.6	0.7	8.3	
19	0.6	S	0.5	1.7	7.1	1.7	2.8	0.7	0.7	0.6	0.5	0.5	0.7	1.7	0.9	2.2	1.9	0.6	0.8	1.4	0.7	0.6	0.6	0.6	7.1	
20	0.5	S	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.7	0.7	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	
21	0.7	S	0.7	0.6	0.6	0.6	0.5	0.7	0.9	0.7	1.2	1.4	0.9	0.7	0.9	1.4	0.9	0.8	0.9	1.1	1.5	1.1	0.7	0.6	1.5	
22	0.7	S	1.2	1.5	2.5	3.2	3.7	3.4	2.9	2.5	2.8	2.3	2.4	1.6	1.5	1.7	2.4	2.0	2.4	2.2	5.4	3.2	2.2	2.0	5.4	
23	1.2	S	0.9	0.8	1.2	1.9	1.7	1.4	3.7	4.0	C	C	C	C	C	0.9	0.9	1.2	1.4	1.6	1.1	0.7	1.0	4.0		
24	0.6	S	0.2	0.3	0.7	1.3	3.5	2.0	4.9	1.9	0.9	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	4.9	
25	0.3	S	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.4	0.4	0.4	0.3	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	
26	0.5	S	0.3	0.4	0.4	0.6	0.6	1.1	2.1	1.9	1.4	1.0	0.6	0.7	0.5	1.4	1.6	1.0	0.7	0.5	1.3	0.3	0.3	0.3	2.1	
27	0.4	S	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.5	0.3	0.1	0.2	0.1	0.2	0.4	0.3	3.4	0.4	0.3	0.2	0.3	0.2	0.2	3.4	
28	0.5	S	0.1	0.4	0.6	0.5	0.3	0.2	0.5	0.6	1.5	6.7	2.5	3.0	2.0	1.0	1.2	1.1	0.8	2.3	1.0	1.4	3.1	1.6	6.7	
NO.	28	-	28	28	28	28	28	28	28	28	27	27	27	27	27	28	28	28	28	28	28	28	28	28	639	100.0%
MEAN	0.8	-	0.5	0.6	1.0	0.9	1.1	1.1	1.2	1.1	1.3	1.3	1.0	1.2	1.6	1.3	1.3	1.3	1.2	1.1	1.1	0.8	1.0	0.9		
MAX	4.1	-	2.1	1.7	7.1	3.2	3.7	5.9	4.9	4.0	6.7	6.7	3.6	3.8	5.1	5.1	8.3	9.3	10.8	9.0	7.8	3.2	5.3	4.4		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	638
Maximum 1-HR Average	10.8 PPB
Maximum 24-HR Average	3.1 PPB
Monthly Calibration	5
Standard Deviation	1.256
Operational Time	672 HRS
Operational Uptime	100.0 %
Monthly Average	1.1 PPB

Lagoon PM_{2.5} (µg/m³) – February 2023

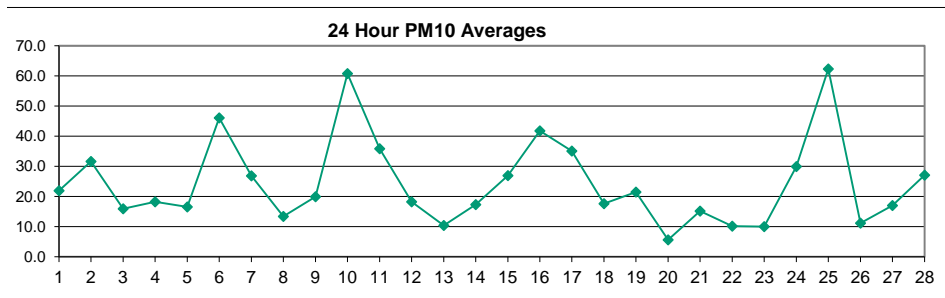
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.7	4.2	2.7	0.0	0.3	2.3	2.6	2.2	2.1	4.1	4.8	3.8	2.3	3.4	6.9	10.1	12.7	10.2	8.1	8.1	5.4	4.9	6.7	10.2	5.0	12.7
2	7.9	7.5	9.2	10.8	12.5	7.7	5.9	9.0	7.1	8.4	8.2	4.2	2.8	1.5	0.0	0.0	2.4	4.0	3.5	4.8	2.1	0.0	0.0	0.0	5.0	12.5
3	0.0	0.0	0.0	0.0	0.5	0.7	0.5	3.8	4.2	2.0	0.1	0.1	0.0	0.0	0.0	0.0	0.8	1.4	3.1	1.5	1.7	3.2	2.0	0.2	1.1	4.2
4	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.2	0.9	1.8	3.1	4.0	3.8	1.5	0.0	0.0	0.0	0.0	1.3	2.3	1.4	0.7	0.0	0.9	4.0
5	1.7	3.0	0.8	0.6	2.2	4.2	2.3	0.1	0.0	0.0	0.0	0.9	2.0	0.0	0.0	2.0	3.2	5.0	3.1	0.0	0.0	0.5	1.2	1.6	1.4	5.0
6	0.0	0.0	0.0	0.0	0.2	1.5	1.3	2.3	0.2	0.8	0.5	0.0	1.3	5.9	10.1	11.9	8.7	5.3	3.5	1.8	1.2	1.1	0.6	1.9	2.5	11.9
7	1.8	0.8	1.0	1.8	0.7	0.0	0.0	0.0	1.9	4.9	3.5	4.9	3.4	4.3	3.6	3.6	6.3	7.4	4.8	2.4	0.6	0.0	0.0	0.2	2.4	7.4
8	1.5	1.6	2.1	3.9	2.7	1.0	2.8	3.8	1.6	0.0	1.7	2.4	1.2	2.1	3.6	2.8	1.6	3.1	6.6	4.2	2.2	2.3	2.9	2.4	2.5	6.6
9	3.7	3.6	0.3	1.1	0.3	0.0	0.5	0.6	0.0	1.1	0.5	0.0	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.5	1.0	0.2	2.5	3.6	0.9	3.7
10	2.6	2.4	1.1	0.8	1.0	0.2	0.9	1.9	5.0	3.6	1.9	18.1	6.6	3.8	1.4	3.5	5.1	4.7	4.1	1.5	0.0	0.0	0.7	0.0	3.0	18.1
11	2.4	1.0	0.1	0.8	3.1	1.3	0.0	0.6	0.0	0.0	0.0	0.8	0.8	1.2	1.3	2.9	5.3	3.9	3.1	7.0	5.0	4.3	3.5	4.8	2.2	7.0
12	4.8	X	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.0	0.6	0.0	0.0	0.0	0.0	2.1	0.9	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.6	4.8
13	0.0	0.0	0.0	2.5	1.9	2.0	2.9	2.1	1.1	0.5	1.4	3.3	2.7	0.7	0.0	0.0	0.0	1.3	2.4	1.7	0.7	2.7	3.0	0.7	1.4	3.3
14	0.1	X	4.4	3.9	1.4	0.9	4.6	3.4	2.6	5.5	5.3	3.8	10.8	7.8	15.8	18.6	18.7	7.1	5.5	5.7	7.6	7.6	7.0	7.9	6.8	18.7
15	9.7	8.5	6.6	7.4	6.1	11.4	8.2	6.9	9.9	8.0	4.7	C	C	C	C	7.0	8.0	4.1	2.9	1.3	0.0	0.5	1.0	0.0	5.6	11.4
16	26.2	X	0.0	0.0	0.0	0.0	0.8	3.6	2.8	1.2	1.5	1.5	1.4	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.0	1.0	0.3	1.8	26.2
17	4.8	X	4.6	3.4	0.8	0.5	0.6	0.0	0.9	1.7	1.3	8.2	7.0	4.3	3.4	4.6	6.0	4.6	2.8	1.7	2.8	1.1	0.0	0.0	2.8	8.2
18	3.2	4.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.1	8.6	7.6	3.9	2.4	0.8	1.3	2.6	1.9	8.6
19	2.1	0.9	0.0	0.0	0.0	0.0	1.1	3.2	2.7	3.2	1.9	0.0	0.0	0.0	0.5	1.4	3.7	3.3	0.4	0.0	2.8	7.1	5.0	1.3	1.7	7.1
20	0.0	0.8	1.3	2.4	0.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.1	4.7	7.5	6.6	4.8	5.1	5.3	9.3	2.4	9.3
21	11.1	6.8	5.8	5.8	5.2	2.9	2.4	3.4	0.7	0.8	3.7	5.1	5.0	3.9	3.2	5.6	6.7	8.2	9.7	8.9	7.7	7.8	6.2	4.8	5.5	11.1
22	5.1	X	5.9	6.9	7.0	7.6	7.5	6.4	5.1	5.4	11.2	10.8	6.9	5.6	6.6	8.2	6.9	6.9	7.2	9.3	7.7	5.0	4.0	4.4	6.9	11.2
23	7.3	X	10.6	11.3	8.9	7.7	8.4	8.4	8.9	7.3	4.9	6.4	10.4	5.9	4.0	6.9	7.3	7.2	6.9	7.1	5.4	4.9	9.1	9.4	7.6	11.3
24	6.2	X	9.0	8.5	10.2	10.0	7.9	12.9	9.1	9.8	11.0	6.2	3.6	3.1	1.6	1.9	1.8	1.0	1.0	0.9	1.5	1.0	0.3	2.2	5.3	12.9
25	2.0	0.6	1.7	2.9	2.5	1.6	0.0	0.0	0.0	0.0	0.0	1.3	2.2	1.5	1.1	0.1	0.0	0.0	0.1	0.5	1.2	1.8	1.1	1.3	1.0	2.9
26	4.0	X	0.2	1.6	2.6	2.3	2.2	2.2	1.6	2.4	3.1	1.6	1.9	2.1	0.8	1.2	1.9	4.2	2.7	3.6	3.2	2.6	2.8	1.7	2.3	4.2
27	0.1	X	7.3	7.5	3.4	2.2	1.3	0.0	0.0	4.1	4.5	2.3	2.4	0.6	0.0	1.4	1.0	2.4	3.6	3.6	2.8	4.7	4.2	2.9	2.7	7.5
28	9.3	X	3.0	0.4	3.3	6.5	8.4	5.5	3.0	3.4	4.6	7.3	13.6	9.6	8.1	11.9	11.7	12.9	15.1	14.6	12.9	11.5	11.5	14.4	8.8	15.1
NO.	28	18	28	28	28	28	28	28	28	28	28	27	27	27	27	28	28	28	28	28	28	28	28	28	658	98.5%
MEAN	4.3	2.6	2.9	3.0	2.8	2.7	2.6	3.0	2.6	2.9	3.0	3.6	3.4	2.7	2.7	4.0	4.7	4.3	4.1	3.7	3.0	3.0	3.0	3.1		
MAX	26.2	8.5	10.6	11.3	12.5	11.4	8.4	12.9	9.9	9.8	11.2	18.1	13.6	9.6	15.8	18.6	18.7	12.9	15.1	14.6	12.9	11.5	11.5	14.4		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	534
Maximum 1-HR Average	26.2 UG/M3
Maximum 24-HR Average	8.8 UG/M3
Operational Time	662 HRS
Operational Uptime	98.5 %
Monthly Calibration	4
Standard Deviation	3.532
Monthly Average	3.2 UG/M3

Lagoon PM₁₀ (µg/m³) – February 2023

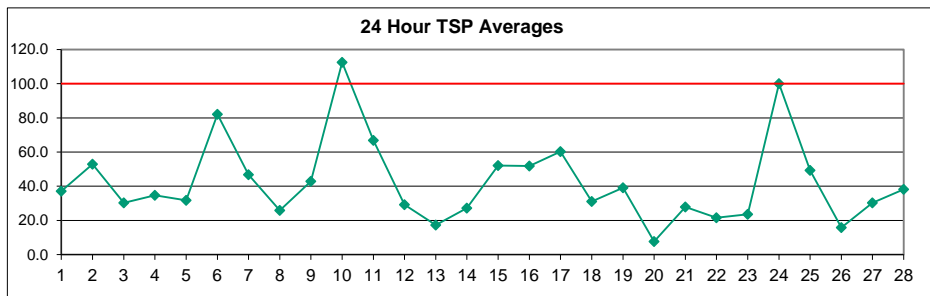
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	35.4	26.8	30.1	27.0	30.3	13.7	21.4	27.7	12.0	27.7	71.6	28.9	10.7	10.8	17.6	24.8	32.0	17.3	24.8	15.2	1.7	5.6	7.3	7.8	22.0	71.6
2	21.8	21.3	51.4	43.5	23.8	31.9	47.8	71.5	49.5	42.4	22.7	17.4	41.4	43.4	48.2	33.6	38.6	43.3	24.1	6.4	9.7	11.3	7.9	7.0	31.7	71.5
3	10.3	17.7	8.0	12.9	12.1	41.8	19.1	32.2	89.1	18.6	11.4	16.4	12.3	7.7	5.3	4.7	4.7	4.8	6.7	7.9	15.8	11.8	7.7	3.7	15.9	89.1
4	1.9	6.0	8.8	32.0	31.2	4.5	3.8	7.7	4.9	12.8	57.4	60.4	84.0	37.8	20.2	12.8	2.1	3.3	7.9	10.9	6.3	8.2	9.0	4.8	18.3	84.0
5	0.6	0.7	1.0	0.9	13.7	6.8	2.2	3.8	6.0	30.2	44.5	37.9	35.0	6.5	8.1	38.4	58.1	46.4	0.0	2.1	3.2	4.3	23.5	24.0	16.6	58.1
6	0.0	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	16.3	16.3	14.7	54.7	125.4	211.7	262.9	183.6	64.3	46.5	35.7	6.0	7.0	22.9	35.2	46.1	262.9
7	1.5	3.2	3.6	11.0	6.8	2.3	0.7	4.5	26.4	30.6	25.4	58.9	28.8	52.6	42.7	67.6	78.1	72.0	46.5	46.1	11.7	0.0	5.7	18.5	26.9	78.1
8	11.0	23.2	18.1	6.7	7.0	10.7	9.9	8.9	10.4	6.4	3.2	2.2	4.0	7.1	26.8	24.6	20.5	23.2	33.2	5.9	4.3	3.7	24.0	26.2	13.4	33.2
9	19.5	22.9	10.7	4.6	6.1	22.2	5.8	4.8	17.5	24.0	33.4	35.8	36.6	47.4	34.7	12.7	1.6	5.0	7.9	6.4	6.8	29.7	32.3	50.6	20.0	50.6
10	25.0	7.9	8.9	29.0	46.8	58.0	55.2	84.4	62.4	29.0	72.7	448.2	143.0	50.5	64.1	48.9	28.7	24.5	13.5	11.3	78.3	30.8	21.6	16.1	60.8	448.2
11	13.7	0.0	0.0	0.0	2.2	4.1	5.0	2.7	4.8	17.6	27.8	64.0	28.8	33.6	36.1	117.1	109.2	46.9	79.2	99.5	73.4	42.7	13.0	39.0	35.8	117.1
12	48.5	7.9	8.2	3.9	3.2	3.0	6.9	16.6	8.4	7.5	20.4	23.6	6.8	28.9	113.1	67.2	11.4	5.9	10.2	5.1	3.3	7.8	6.9	14.6	18.3	113.1
13	18.5	19.5	18.9	19.1	17.9	0.0	4.4	7.4	8.9	19.9	11.6	16.7	4.2	6.5	12.5	0.0	0.0	1.7	25.6	12.6	0.0	2.4	16.2	5.7	10.4	25.6
14	13.4	15.5	75.7	16.8	5.3	5.3	5.5	6.5	5.9	10.7	14.3	17.1	28.3	11.9	34.3	47.2	28.6	22.7	3.3	3.3	8.9	10.4	13.2	10.9	17.3	75.7
15	12.0	10.8	10.4	7.5	9.4	18.0	5.1	10.5	25.8	32.2	35.6	C	C	C	C	62.1	83.9	27.7	37.0	44.7	51.5	7.2	14.7	32.5	26.9	83.9
16	98.4	X	14.3	18.4	42.9	46.5	48.3	26.8	20.1	24.8	32.5	65.9	109.9	121.8	58.3	47.6	48.9	45.6	46.7	21.9	6.9	2.8	4.2	8.2	41.8	121.8
17	70.5	X	6.9	3.2	2.1	2.6	2.5	6.7	48.4	17.9	24.1	93.6	79.2	76.6	13.8	49.5	38.5	36.3	32.9	64.6	57.8	26.3	25.0	27.8	35.1	93.6
18	54.2	22.9	5.3	5.2	4.6	4.4	3.2	1.8	0.0	0.0	9.5	4.5	2.5	3.5	11.5	20.7	48.9	69.1	79.7	19.9	5.2	4.2	9.5	33.8	17.7	79.7
19	30.8	5.6	1.7	1.6	32.9	121.7	35.7	37.4	18.1	31.5	11.9	10.0	8.9	9.7	25.7	2.6	43.9	18.3	2.7	16.1	21.4	18.6	4.5	3.7	21.5	121.7
20	6.3	3.2	2.0	1.9	2.1	3.1	1.4	2.1	3.5	4.4	2.0	2.1	2.8	4.0	3.8	1.9	2.9	15.7	11.6	12.2	8.5	12.4	13.7	12.2	5.7	15.7
21	31.2	41.8	28.3	20.0	3.6	20.4	0.0	4.4	7.3	6.9	7.7	12.4	29.8	18.2	12.5	11.1	18.8	18.2	22.7	15.4	19.1	13.4	1.4	0.0	15.2	41.8
22	12.1	6.9	9.8	16.7	0.0	9.6	5.4	6.2	8.1	12.0	14.8	8.9	14.9	9.1	6.3	8.9	11.5	21.1	16.2	10.2	5.7	9.8	16.7	3.5	10.2	21.1
23	3.9	2.7	2.6	3.1	8.5	11.1	8.5	11.4	9.2	7.0	54.9	X	X	X	X	X	7.8	5.3	5.9	4.3	2.6	12.2	7.9	22.0	10.0	54.9
24	12.6	6.5	15.7	6.0	22.7	20.9	23.1	40.8	38.8	59.8	113.4	60.3	30.0	47.9	34.6	25.7	36.5	23.9	19.9	17.7	18.7	12.0	16.0	14.6	29.9	113.4
25	18.2	17.0	11.7	7.7	5.5	13.0	13.9	7.4	18.8	19.6	31.7	37.9	55.1	68.1	163.8	217.9	164.2	244.4	143.3	111.9	59.3	37.3	15.3	14.0	62.4	244.4
26	16.5	4.0	13.7	3.9	2.5	0.8	4.8	21.6	9.6	5.7	9.1	11.0	6.9	3.6	5.6	4.0	20.2	53.9	9.8	37.8	10.4	11.8	0.0	0.4	11.2	53.9
27	7.9	32.4	64.1	47.7	14.6	1.8	5.9	4.3	3.7	25.4	37.0	14.2	24.1	6.4	3.7	1.1	1.8	19.4	33.3	16.3	6.2	9.2	22.2	5.5	17.0	64.1
28	11.4	5.0	5.0	25.0	33.9	58.5	20.8	22.1	46.3	64.8	11.8	21.9	33.4	19.0	24.1	15.3	50.8	32.3	35.7	28.2	21.7	22.2	21.5	20.5	27.1	64.8
NO.	28	26	28	28	28	28	28	28	28	28	28	26	26	26	26	27	28	28	28	28	28	28	28	28	661	89.4%
MEAN	21.7	12.8	15.6	13.4	14.0	19.2	13.1	17.2	20.1	21.6	29.6	45.6	35.2	33.0	40.0	45.6	42.0	36.2	29.5	24.6	18.7	13.4	13.7	16.5		
MAX	98.4	41.8	75.7	47.7	46.8	121.7	55.2	84.4	89.1	64.8	113.4	448.2	143.0	125.4	211.7	262.9	183.6	244.4	143.3	111.9	78.3	42.7	32.3	50.6		



Number of Non-Zero Readings	639		
Maximum 1-HR Average	448.2 UG/M3		
Maximum 24-HR Average	62.4 UG/M3		
Monthly Calibration	4	Operational Time	665 HRS
Standard Deviation	34.29	Operational Uptime	89.4 %
		Monthly Average	24.5 UG/M3

Lagoon TSP (µg/m³) – February 2023

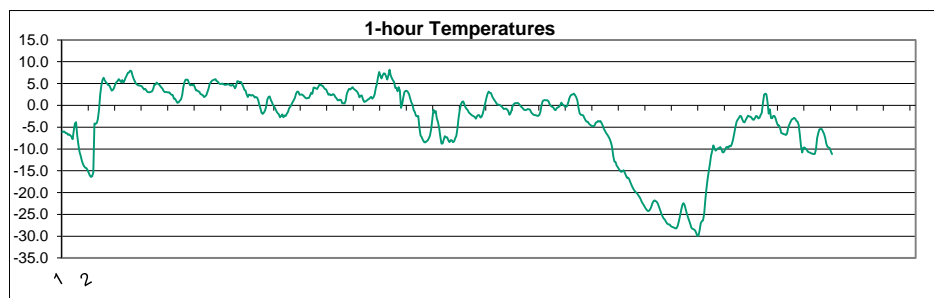
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	52.6	51.5	51.1	38.9	47.1	24.5	31.7	39.5	35.0	59.5	139.1	49.2	19.2	28.6	35.3	44.4	42.0	23.8	35.0	22.6	1.4	0.4	2.8	14.9	37.1	139.1	
2	33.7	43.2	97.2	61.0	29.3	56.3	87.9	113.0	84.4	67.8	32.3	39.4	74.8	49.3	34.5	57.3	73.8	84.7	54.4	22.8	25.4	16.9	17.6	13.0	52.9	113.0	
3	17.5	33.7	25.7	30.8	35.4	61.2	43.6	73.9	175.7	46.7	20.1	24.0	15.1	12.3	10.0	10.8	7.1	7.3	8.4	9.5	25.6	17.1	8.5	8.2	30.3	175.7	
4	5.9	8.8	24.3	42.8	58.4	13.4	8.1	4.6	4.5	28.7	125.8	118.0	155.1	61.8	44.2	27.8	4.0	3.1	17.2	29.8	11.9	16.2	10.8	7.1	34.7	155.1	
5	7.7	11.9	5.0	0.6	14.5	6.5	3.1	14.7	12.6	57.8	64.5	59.6	62.4	16.2	17.5	73.2	105.5	97.0	6.3	11.1	9.1	8.7	45.8	51.7	31.8	105.5	
6	7.9	3.0	3.0	2.9	4.4	4.5	3.4	6.7	6.4	34.9	35.2	34.0	96.6	216.0	375.9	359.6	315.2	128.8	101.1	51.2	14.8	13.3	48.2	103.4	82.1	375.9	
7	18.8	12.3	11.5	23.6	11.1	8.7	2.2	11.3	46.3	49.0	48.8	101.1	49.3	86.1	61.0	118.3	123.7	120.9	67.8	71.6	20.5	7.1	19.6	30.1	46.7	123.7	
8	16.3	33.9	24.4	8.9	22.8	27.4	32.7	15.7	15.5	4.7	6.7	3.9	11.0	14.0	58.9	51.5	41.8	48.0	80.1	8.6	9.9	13.9	27.2	44.2	25.9	80.1	
9	43.0	41.5	36.5	15.9	13.3	47.8	8.5	22.7	40.1	62.8	77.2	73.9	78.9	87.6	63.9	29.0	16.0	20.9	19.7	9.6	13.4	63.4	53.5	88.1	42.8	88.1	
10	34.7	11.3	15.4	53.4	84.2	104.8	115.6	149.7	121.4	59.1	146.7	923.8	232.5	79.6	124.0	70.8	49.0	51.1	33.5	5.9	56.7	87.2	60.1	29.2	112.5	923.8	
11	26.3	1.9	4.5	5.7	5.7	6.2	9.6	8.8	23.8	46.9	125.6	44.1	62.7	72.4	218.7	163.5	89.1	145.5	198.2	138.3	88.1	21.9	89.8	66.8	218.7	66.8	218.7
12	98.5	18.1	6.3	12.2	19.4	18.2	18.9	24.5	18.5	13.2	39.5	31.9	19.7	29.5	105.7	131.0	20.7	0.0	14.7	8.2	6.9	15.9	9.5	18.6	29.2	131.0	
13	22.6	24.0	26.5	25.4	15.3	3.9	11.7	15.2	14.6	29.6	21.7	24.9	1.8	17.2	29.9	11.9	5.4	6.8	36.4	14.2	4.2	16.1	30.3	4.9	17.3	36.4	
14	8.3	29.2	98.2	5.9	6.8	4.2	14.2	15.4	17.7	37.7	38.3	33.2	41.0	27.3	59.2	75.8	51.9	30.6	7.2	7.7	12.1	7.4	10.0	12.5	27.2	98.2	
15	22.0	18.2	7.6	11.1	10.8	20.8	8.8	25.0	47.5	51.1	60.4	C	C	C	C	116.0	169.8	63.7	77.2	100.9	120.5	18.7	36.0	55.4	52.1	169.8	
16	81.7	23.7	23.8	29.9	68.6	65.1	91.8	36.9	34.4	54.9	64.6	97.0	116.9	83.4	51.5	52.3	49.3	58.2	76.2	38.0	8.8	11.0	9.2	16.7	51.8	116.9	
17	31.1	52.9	8.1	4.5	5.3	2.2	6.8	10.4	57.2	25.6	45.4	175.2	149.1	141.6	17.0	97.2	79.0	55.3	63.3	137.6	112.9	59.7	48.9	59.5	60.2	175.2	
18	117.9	34.9	1.6	2.0	5.0	6.8	4.4	2.3	8.1	4.7	4.4	5.4	14.0	14.0	16.7	43.6	86.5	123.8	148.8	35.0	1.0	7.0	9.3	48.7	31.1	148.8	
19	46.0	12.1	6.7	8.1	74.0	247.3	61.0	55.7	17.0	40.0	25.3	15.7	17.1	14.4	58.7	25.2	88.9	30.1	5.3	26.4	35.5	17.0	6.7	3.0	39.1	247.3	
20	3.4	7.4	9.4	5.3	1.4	0.1	0.0	0.0	0.5	2.6	2.2	7.3	8.1	4.2	2.8	3.3	7.4	20.6	17.4	11.6	14.3	16.2	12.7	26.4	7.7	26.4	
21	37.5	34.6	9.6	7.6	12.8	23.8	13.2	18.0	17.7	23.5	11.4	25.2	37.8	39.5	31.6	20.8	54.0	53.0	55.7	54.5	35.4	36.8	7.1	8.3	27.9	55.7	
22	19.5	30.0	24.4	16.9	6.9	15.5	5.7	16.4	12.7	12.8	15.2	23.8	13.4	22.3	24.3	41.6	32.1	55.6	51.2	24.4	8.1	16.5	14.2	14.8	21.6	55.6	
23	10.3	13.6	9.9	10.0	11.0	9.4	16.9	17.9	14.7	8.4	6.9	5.6	15.9	19.3	20.8	62.9	43.7	87.8	22.2	24.7	30.6	9.3	31.9	63.9	23.7	87.8	
24	49.2	49.9	16.8	38.1	21.1	34.0	51.6	153.4	127.2	242.1	420.6	253.9	110.9	121.8	107.3	87.9	67.3	48.5	38.5	53.3	61.7	87.4	68.0	89.5	100.0	420.6	
25	76.0	95.1	72.4	17.1	18.7	13.2	29.9	35.1	38.0	43.3	57.2	61.3	77.5	100.3	104.2	91.0	54.2	66.8	64.4	33.3	18.9	1.7	3.6	9.1	49.3	104.2	
26	14.5	17.4	11.0	8.1	4.7	6.0	10.5	25.4	13.4	9.5	19.1	25.7	18.4	8.2	5.9	8.4	23.4	50.9	15.9	40.7	21.1	20.0	0.2	1.7	15.8	50.9	
27	17.6	54.3	109.0	76.3	28.4	10.9	18.4	8.4	10.2	39.7	64.4	23.0	26.0	0.0	0.0	4.4	19.4	44.0	60.2	27.4	11.9	19.0	35.5	18.8	30.3	109.0	
28	22.8	16.0	22.4	35.8	50.0	91.5	32.7	30.2	66.4	111.4	16.0	44.3	41.0	24.4	29.4	23.1	51.3	39.2	41.5	38.8	26.0	22.0	19.7	20.2	38.2	111.4	
NO.	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27	28	28	28	28	28	28	28	28	28	668	90.3%	
MEAN	33.7	28.0	27.2	21.4	24.5	33.3	26.4	34.0	38.1	44.5	59.1	89.1	57.3	51.2	57.9	69.9	65.9	53.9	48.8	39.9	30.6	25.5	23.9	34.0			
MAX	117.9	95.1	109.0	76.3	84.2	247.3	115.6	153.4	175.7	242.1	420.6	923.8	232.5	216.0	375.9	359.6	315.2	128.8	148.8	198.2	138.3	88.1	68.0	103.4			



Number of 24HR Exceedences	2
Number of Non-Zero Readings	663
Maximum 1-HR Average	923.8 UG/M3
Maximum 24-HR Average	112.5 UG/M3
Monthly Calibration	4
Standard Deviation	58.2
Operational Time	672 HRS
Operational Uptime	90.3 %
Monthly Average	42.3 UG/M3

Lagoon Temperature (°C) – February 2023

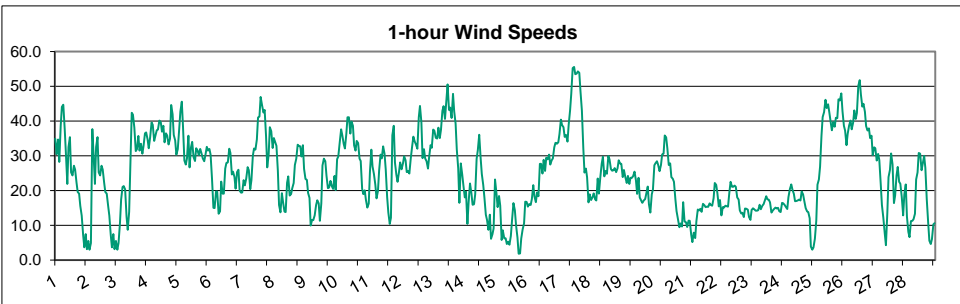
HOURLY		DAY																								MEAN	MAX
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-6.2	-6.0	-6.1	-6.4	-6.4	-6.7	-6.7	-6.9	-7.2	-7.7	-5.8	-4.2	-3.8	-6.9	-9.0	-10.7	-11.6	-12.7	-13.5	-14.0	-14.3	-14.4	-14.8	-15.5	-9.0	-3.8	
2	-16.1	-16.4	-16.3	-15.4	-7.9	-4.3	-4.3	-4.2	-4.2	-4.1	-3.1	-0.9	2.4	4.6	5.8	6.3	5.7	5.3	5.0	4.6	4.6	3.9	3.4	3.5	-1.8	6.3	
3	3.9	4.8	5.3	5.6	6.0	5.7	5.3	5.8	5.2	5.7	6.4	6.9	7.5	7.5	8.0	7.8	6.8	6.1	5.5	5.0	4.8	4.6	4.5	4.5	5.8	8.0	
4	4.4	4.0	3.6	3.8	3.4	3.1	3.0	3.0	3.1	3.2	3.8	4.8	4.7	5.2	5.0	4.8	4.5	4.1	3.8	3.3	3.1	3.0	3.0	3.0	3.8	5.2	
5	3.0	2.6	2.5	2.3	1.5	1.5	1.1	0.6	0.7	1.1	1.3	2.3	4.2	5.3	5.9	5.9	5.8	5.0	4.6	4.7	4.6	4.7	4.2	3.4	3.3	5.9	
6	3.4	3.2	3.1	2.6	2.5	2.3	1.9	2.1	2.3	3.1	3.9	5.0	5.3	5.6	5.8	5.9	6.0	5.6	5.5	5.1	4.9	4.9	5.0	4.8	4.2	6.0	
7	4.7	4.7	4.7	4.9	4.7	4.5	4.5	4.7	4.4	3.9	4.5	5.5	5.5	5.3	5.4	4.8	4.3	3.6	3.4	2.5	1.9	2.5	2.4	2.2	4.2	5.5	
8	2.4	2.2	1.8	1.9	1.8	1.2	0.1	-0.8	-1.7	-2.0	-1.6	-1.2	-0.2	1.4	1.9	2.1	1.3	0.7	0.1	-0.3	-0.8	-1.4	-1.8	-2.1	0.2	2.4	
9	-2.7	-2.5	-2.1	-2.7	-2.3	-2.4	-1.9	-1.5	-0.7	-0.3	0.2	0.8	1.2	1.7	2.7	3.2	3.1	2.4	2.5	2.5	2.3	2.0	1.7	1.6	0.4	3.2	
10	1.7	1.7	2.3	2.9	2.6	4.0	4.1	3.9	3.8	4.2	4.6	4.8	4.5	4.5	4.0	3.7	3.6	3.0	2.4	2.6	2.3	2.4	2.6	2.4	3.3	4.8	
11	1.9	1.7	1.2	1.1	1.3	1.2	0.5	0.5	0.4	1.0	2.7	3.3	3.8	3.6	3.9	4.1	3.8	3.6	3.4	3.1	2.6	1.8	2.2	2.3	2.3	4.1	
12	1.3	0.8	0.9	1.0	1.3	1.4	1.8	2.0	1.5	1.8	2.5	3.9	4.9	6.5	7.6	6.9	6.2	6.9	7.3	7.3	6.7	5.9	6.9	8.2	4.2	8.2	
13	6.9	6.2	5.8	5.3	4.0	4.1	3.2	4.2	3.4	-0.6	0.2	1.8	3.1	3.3	3.3	3.0	2.5	1.6	0.7	0.1	-1.1	-1.5	-2.4	-2.5	2.3	6.9	
14	-2.4	-5.0	-6.9	-7.3	-7.9	-8.5	-8.5	-8.2	-8.1	-7.6	-7.0	-5.6	-3.3	-1.0	-1.7	-1.3	-3.0	-3.9	-5.1	-7.1	-8.8	-8.8	-7.9	-7.1	-5.9	-1.0	
15	-7.3	-7.4	-8.0	-8.5	-7.9	-8.0	-8.4	-8.3	-7.5	-7.0	-5.2	-2.7	-1.0	0.2	0.8	0.9	0.2	-0.5	-0.8	-1.2	-1.7	-1.9	-2.2	-2.4	-4.0	0.9	
16	-2.5	-2.7	-3.1	-2.5	-2.2	-2.3	-2.8	-2.6	-1.9	-0.8	0.6	1.7	2.7	3.1	2.9	2.8	2.1	1.6	1.2	0.8	0.3	0.2	0.2	0.0	-0.1	3.1	
17	-0.2	-0.5	-0.9	-0.8	-0.8	-0.9	-1.3	-2.2	-1.8	-1.0	0.0	0.3	0.5	0.5	0.6	0.4	0.1	-0.3	-0.5	-0.8	-1.1	-1.0	-1.0	-0.9	-0.6	0.6	
18	-0.9	-1.0	-1.7	-1.9	-2.2	-2.2	-2.3	-2.4	-2.4	-2.2	-1.5	0.1	1.0	1.2	1.2	1.2	1.2	0.8	0.2	-0.2	-0.3	-0.5	-1.0	-1.1	-0.7	1.2	
19	-0.6	-0.5	-0.3	0.0	0.6	0.2	0.0	-0.3	-0.4	-0.1	0.6	1.7	2.2	2.5	2.5	2.7	2.3	1.8	1.1	-0.6	-1.8	-2.2	-2.2	-2.3	0.3	2.7	
20	-2.9	-3.4	-3.7	-3.7	-4.2	-4.4	-4.7	-4.7	-4.8	-4.6	-4.0	-3.8	-3.6	-3.7	-3.6	-4.0	-4.6	-5.3	-5.9	-6.4	-6.7	-7.3	-7.8	-8.5	-4.8	-2.9	
21	-9.5	-11.5	-12.9	-13.0	-13.8	-14.2	-14.6	-15.0	-15.2	-15.1	-14.9	-15.4	-16.1	-16.6	-16.6	-17.0	-17.7	-18.3	-18.9	-19.3	-19.7	-20.0	-20.2	-20.7	-16.1	-9.5	
22	-21.0	-21.6	-22.2	-22.7	-23.0	-23.6	-23.9	-24.2	-24.2	-23.9	-23.4	-22.5	-22.0	-21.8	-21.9	-22.2	-22.6	-23.4	-24.1	-24.9	-25.5	-25.9	-26.2	-26.7	-23.5	-21.0	
23	-27.1	-27.3	-27.3	-27.7	-27.9	-28.0	-28.1	-28.2	-28.2	-27.6	-26.5	-25.3	-24.0	-22.9	-22.4	-22.9	-23.9	-24.9	-25.8	-26.5	-27.3	-28.1	-28.3	-28.4	-26.4	-22.4	
24	-28.7	-29.2	-29.9	-29.9	-28.7	-27.1	-26.5	-26.4	-24.9	-21.8	-19.1	-16.9	-15.2	-13.4	-11.6	-10.5	-9.2	-9.9	-10.4	-10.1	-9.9	-9.8	-9.5	-10.0	-18.3	-9.2	
25	-10.8	-10.8	-10.3	-9.7	-9.5	-9.8	-9.3	-9.4	-8.8	-7.8	-6.4	-5.0	-3.8	-3.3	-2.9	-2.4	-2.5	-3.2	-3.8	-3.9	-3.3	-2.8	-2.4	-2.5	-6.0	-2.4	
26	-2.6	-2.8	-3.2	-3.3	-3.0	-2.4	-2.6	-3.0	-2.8	-2.2	-1.7	0.6	2.4	2.7	2.5	0.8	-1.9	-0.9	-2.9	-2.9	-2.4	-2.4	-3.0	-3.9	-1.7	2.7	
27	-4.6	-4.6	-5.3	-6.4	-6.4	-6.6	-6.6	-6.8	-6.4	-5.1	-4.4	-3.8	-3.3	-3.1	-2.9	-3.1	-3.6	-3.8	-4.6	-6.9	-9.5	-10.8	-9.7	-9.6	-5.7	-2.9	
28	-9.9	-10.3	-10.7	-10.7	-10.9	-11.0	-11.1	-11.2	-11.2	-10.0	-7.5	-6.3	-5.5	-5.4	-5.4	-5.9	-6.6	-7.4	-8.8	-9.5	-9.7	-9.8	-10.6	-11.2	-9.0	-5.4	
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	28	672	100.0%
MEAN	-4.4	-4.7	-5.0	-5.0	-4.8	-4.8	-4.9	-5.0	-4.9	-4.6	-3.6	-2.5	-1.6	-1.2	-1.0	-1.2	-1.7	-2.2	-2.8	-3.3	-3.8	-4.0	-4.1	-4.3			
MAX	6.9	6.2	5.8	5.6	6.0	5.7	5.3	5.8	5.2	5.7	6.4	6.9	7.5	7.5	8.0	7.8	6.8	6.9	7.3	7.3	6.7	5.9	6.9	8.2			



Number of Non-Zero Readings	672
Maximum 1-HR Average	8.2 C
Maximum 24-HR Average	5.8 C
Operational Time	672 HRS
Monthly Calibration	0
Operational Uptime	100.0 %
Standard Deviation	8.809
Monthly Average	-3.6 C

Lagoon Wind Speed (km/hr) – February 2023

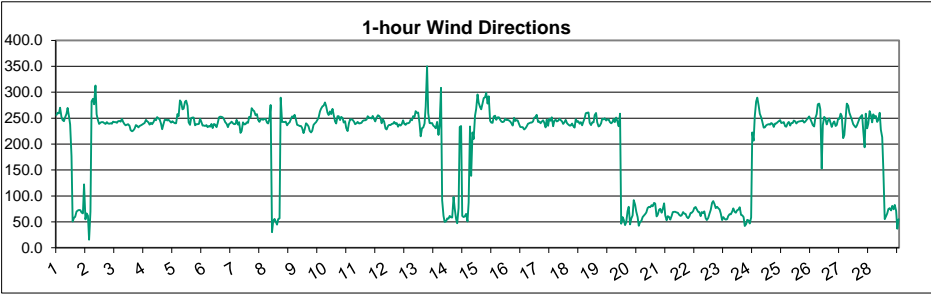
HOUR																								MEAN	MAX			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			24		
1	34.9	30.5	34.7	28.3	38.7	44.1	44.7	37.7	30.8	21.9	32.5	35.4	25.3	24.4	27.2	26.0	22.3	19.6	19.1	15.6	12.8	7.3	3.7	7.5	26.0	44.7		
2	3.1	5.5	3.0	4.9	10.5	17.4	21.0	21.3	20.3	12.5	8.7	13.9	27.0	42.4	41.8	38.1	31.4	31.9	35.7	31.5	33.5	30.6	32.9	36.5	23.2	42.4		
3	36.8	34.8	32.2	35.4	39.6	38.9	34.3	35.7	37.4	37.5	40.1	39.7	37.0	38.7	33.9	36.5	35.8	33.3	34.9	44.6	42.0	36.0	34.4	30.4	36.7	44.6		
4	31.9	37.7	42.8	45.6	38.6	28.6	27.5	29.3	35.8	26.7	32.5	34.0	29.6	28.5	32.2	31.5	30.2	32.0	30.9	29.2	28.5	30.2	32.6	31.5	32.4	45.6		
5	32.0	30.4	23.4	15.0	15.0	19.7	19.8	13.3	14.0	22.6	19.1	19.1	26.3	27.9	28.1	32.1	30.8	24.7	25.5	24.0	20.6	25.3	26.0	20.0	23.1	32.1		
6	19.4	19.5	23.0	21.5	23.5	26.8	25.9	20.4	23.0	30.0	32.1	31.8	34.7	41.0	41.3	46.9	44.6	42.5	43.2	35.6	26.7	30.4	38.2	37.1	31.6	46.9		
7	32.2	35.1	33.9	32.9	25.6	15.8	13.7	19.2	16.7	14.0	13.8	22.2	24.1	18.6	19.0	20.7	22.2	27.4	29.2	33.2	32.9	32.7	29.8	33.1	24.9	35.1		
8	26.3	23.4	23.1	19.3	17.9	10.0	11.6	11.5	12.9	15.8	17.2	16.4	11.3	16.3	27.2	29.2	28.4	24.3	20.7	20.9	22.8	21.4	20.5	24.2	19.7	29.2		
9	20.1	29.0	29.8	33.8	37.6	35.9	33.4	32.1	36.3	41.1	41.1	36.4	39.9	38.6	33.0	31.5	34.3	33.7	29.2	28.5	20.6	19.0	20.1	17.3	31.4	41.1		
10	15.1	16.3	25.3	31.8	26.9	24.8	21.7	17.8	19.9	25.8	30.3	29.3	32.7	30.5	26.1	18.1	13.7	10.4	12.2	35.9	38.7	28.1	24.6	22.5	24.1	38.7		
11	25.2	28.1	26.1	27.8	29.9	28.7	25.3	25.6	24.9	29.3	32.8	35.5	34.1	33.3	32.1	41.1	44.4	39.7	29.3	31.9	29.3	28.5	26.3	29.7	30.8	44.4		
12	33.1	32.3	37.6	37.2	35.2	35.0	38.1	35.1	37.5	42.9	44.3	40.7	46.0	50.5	43.2	43.9	40.9	47.8	42.8	39.2	31.9	26.4	16.5	27.9	37.7	50.5		
13	24.7	21.5	18.0	19.7	10.4	16.6	22.1	19.2	15.9	16.0	18.9	29.1	31.6	36.1	29.4	24.7	21.7	18.0	13.1	11.6	8.7	13.1	6.1	7.4	18.9	36.1		
14	9.1	23.2	19.3	15.3	18.5	15.7	5.8	8.5	6.3	6.3	4.6	5.3	4.4	7.0	11.4	16.4	14.3	10.1	6.5	1.8	1.9	6.2	8.8	10.6	9.9	23.2		
15	16.8	16.8	15.4	16.2	15.9	17.5	21.6	18.3	16.7	19.5	18.4	27.7	27.7	24.9	28.8	25.7	29.5	29.0	30.4	27.5	28.7	29.3	32.5	33.7	23.7	33.7		
16	33.5	33.9	36.3	40.4	38.8	38.3	35.5	36.0	34.1	38.9	43.1	47.9	55.3	55.6	53.5	53.7	54.3	53.9	48.6	43.0	32.2	25.2	26.3	23.8	40.9	55.6		
17	16.6	18.9	17.3	18.1	19.2	17.5	17.1	23.5	19.1	23.8	27.7	29.7	24.1	25.6	24.8	29.9	29.0	26.2	25.7	25.9	26.5	25.3	26.4	28.8	23.6	29.9		
18	27.8	27.7	23.9	25.9	23.9	22.2	24.2	21.9	23.7	23.7	24.1	25.4	23.0	19.0	23.7	18.0	17.1	16.5	17.2	17.6	19.2	21.2	16.1	13.7	21.5	27.8		
19	18.9	20.4	27.3	27.9	28.4	27.4	25.6	27.4	30.4	30.7	35.9	35.3	32.2	27.4	27.8	23.9	23.4	22.5	17.5	14.1	11.8	9.5	10.5	9.7	23.6	35.9		
20	16.6	11.1	10.9	9.5	11.3	11.3	7.4	5.2	7.9	6.3	11.2	14.6	14.3	14.8	13.9	16.2	15.8	15.3	15.4	15.3	16.3	15.9	15.7	17.9	12.9	17.9		
21	22.2	21.7	19.3	15.4	17.3	12.9	15.2	15.1	15.6	15.5	15.4	19.7	22.5	21.1	21.1	21.4	21.1	18.1	17.4	14.3	13.4	13.6	12.4	14.8	17.4	22.5		
22	14.8	14.5	12.4	11.6	14.4	14.9	14.6	14.2	14.2	14.4	15.9	14.7	15.6	16.2	17.1	18.4	17.5	17.4	16.6	13.7	14.3	14.7	15.1	14.8	15.1	18.4		
23	15.1	14.1	13.8	16.5	16.3	15.9	15.3	14.7	18.1	20.4	21.8	20.3	19.1	16.9	17.0	17.2	17.5	17.1	19.7	19.0	17.1	15.0	14.0	13.8	16.9	21.8		
24	12.1	3.9	3.0	3.6	6.1	11.4	21.7	23.2	26.9	35.8	41.1	42.6	46.1	43.8	44.8	42.6	39.7	37.4	39.7	38.4	41.0	40.8	46.3	45.9	30.7	46.3		
25	48.0	42.8	38.7	37.3	33.0	36.4	38.7	40.2	37.6	39.6	43.1	40.6	42.3	50.1	51.8	47.6	44.1	45.0	42.7	38.6	37.3	37.9	35.1	35.8	41.0	51.8		
26	30.2	32.5	32.2	28.6	30.5	28.8	21.9	15.8	12.2	7.7	4.3	13.7	23.9	25.9	30.7	27.6	16.4	18.6	24.3	26.8	22.5	22.0	18.2	12.9	22.0	32.5		
27	18.9	21.8	12.5	8.1	6.6	11.2	11.3	11.8	13.3	23.2	25.3	30.8	30.6	25.8	27.8	30.0	26.5	17.5	10.7	5.6	4.6	6.0	10.3	10.6	16.7	30.8		
28	10.7	9.3	10.5	10.2	11.4	10.3	10.0	10.1	8.2	6.9	4.2	8.8	15.9	18.3	18.5	17.9	16.6	17.3	17.0	15.9	15.1	13.5	13.1	9.9	12.5	18.5		
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	28	28	672	100.0%
MEAN	23.1	23.5	23.1	22.8	22.9	22.6	22.3	21.6	21.8	23.2	25.0	27.2	28.4	29.3	29.5	29.5	28.0	26.7	25.5	25.0	23.2	22.3	21.9	22.2				
MAX	48.0	42.8	42.8	45.6	39.6	44.1	44.7	40.2	37.6	42.9	44.3	47.9	55.3	55.6	53.5	53.7	54.3	53.9	48.6	44.6	42.0	40.8	46.3	45.9				



Number of Non-Zero Readings	672	Operational Time	672 HRS
Maximum 1-HR Average	55.6 KM/HR	Operational Uptime	100.0 %
Maximum 24-HR Average	41.0 KM/HR	Monthly Average	24.6 KM/HR
Monthly Calibration	0		
Standard Deviation	10.98		

Lagoon Wind Direction (°) – February 2023

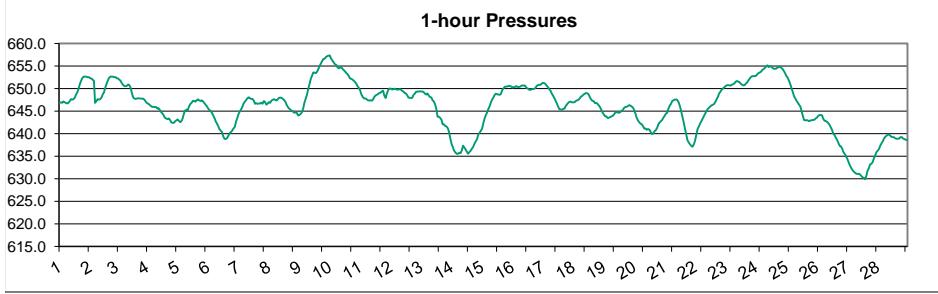
		HOUR																								MEAN	MAX	
Day		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1		256.0	260.4	259.1	270.1	252.6	246.5	244.0	251.6	258.2	269.8	253.2	237.9	177.3	51.0	57.8	59.8	69.7	71.9	72.8	72.6	68.2	66.4	122.5	54.7		254.4	270.1
2		66.2	62.1	15.7	70.5	238.7	275.3	273.9	282.6	287.5	276.8	313.1	257.2	245.9	238.8	241.5	242.5	242.3	240.5	238.9	242.2	239.6	239.4	240.0	239.4		248.9	313.1
3		243.3	242.5	242.3	241.2	244.1	244.7	243.1	248.7	243.0	238.4	236.3	237.4	238.2	235.5	226.9	224.9	226.2	229.8	236.6	235.2	232.2	234.8	236.1	237.6		237.5	248.7
4		239.3	240.7	246.6	244.1	242.0	237.6	241.2	238.5	242.6	247.7	246.0	252.1	249.3	247.5	239.5	228.5	238.9	246.6	247.4	245.3	246.7	244.0	241.7	244.1		243.3	252.1
5		241.8	240.0	240.0	258.0	253.8	284.4	281.2	267.2	268.2	281.8	283.8	273.5	242.1	237.2	250.3	251.2	251.3	236.0	238.2	238.3	238.8	249.0	242.2	235.7		251.3	284.4
6		235.9	234.9	236.6	232.6	234.9	233.6	239.0	231.1	238.9	237.4	232.8	240.4	251.7	252.8	252.5	251.6	247.5	242.5	239.2	232.7	238.8	240.5	243.2	240.3		241.3	252.8
7		238.2	238.8	247.0	237.5	242.5	221.7	225.2	241.9	237.8	238.6	241.9	241.2	252.7	251.3	269.1	265.2	263.6	255.6	257.9	247.0	243.0	247.7	248.0	246.8		246.3	269.1
8		248.4	248.4	241.5	239.7	249.2	275.5	30.0	51.0	55.9	50.7	44.6	55.3	56.8	289.8	242.7	242.8	242.4	243.2	236.3	240.2	241.9	248.4	253.4	251.9		253.3	289.8
9		256.6	246.8	237.3	236.0	234.7	235.0	231.1	221.4	228.3	240.3	237.9	234.2	225.4	222.7	225.6	237.3	239.9	242.6	246.8	251.0	263.1	268.2	272.9	274.2		239.1	274.2
10		280.5	273.2	260.5	255.9	263.2	257.9	268.0	256.4	243.8	239.9	254.0	254.0	246.2	252.4	250.4	241.3	244.1	231.0	225.3	240.5	247.8	247.6	247.0	243.1		251.2	280.5
11		238.4	240.2	242.9	239.9	240.0	241.1	244.4	245.8	245.9	247.2	253.7	250.7	250.7	249.3	254.3	248.0	243.7	251.3	255.6	254.1	250.6	240.0	247.6	243.4		246.9	255.6
12		230.0	228.1	234.9	237.3	236.6	238.8	239.3	242.7	238.7	240.8	233.5	237.8	235.9	238.3	246.1	239.2	237.0	240.0	240.3	241.5	247.1	245.8	253.9	251.9		239.3	253.9
13		263.6	260.1	261.0	240.2	215.1	230.9	231.7	239.8	273.0	349.9	259.9	240.7	240.1	240.8	235.8	233.7	230.3	242.9	217.5	237.7	308.7	92.1	61.5	50.2		245.3	349.9
14		50.7	56.5	56.0	61.5	58.7	58.4	98.1	75.9	55.9	47.2	77.1	233.1	234.7	61.6	59.1	60.7	65.6	50.9	87.1	233.9	138.8	222.5	209.6	254.6		63.8	254.6
15		267.9	295.9	280.1	271.5	267.1	278.6	288.5	290.5	298.9	278.1	292.2	245.2	241.5	241.1	253.2	254.7	246.7	251.6	251.7	246.6	243.1	242.2	243.5	249.2		258.9	298.9
16		246.4	246.7	245.4	243.8	239.8	235.6	250.6	244.4	246.4	245.5	238.6	232.9	232.7	232.8	228.3	230.1	233.8	239.5	240.4	241.6	241.3	243.7	250.6	252.5		239.6	252.5
17		256.3	242.7	243.9	240.3	243.1	245.8	241.3	232.4	247.4	235.3	249.1	244.9	251.8	234.4	244.4	247.2	243.5	245.1	248.9	246.3	243.8	238.9	242.3	246.9		244.0	256.3
18		240.3	238.1	235.6	235.6	239.9	234.7	231.7	248.1	243.0	244.3	239.5	242.3	236.1	243.0	250.1	259.5	260.4	260.8	241.0	236.8	242.1	242.0	256.2	260.2		243.2	260.8
19		242.0	234.1	235.4	240.4	249.0	247.7	250.1	245.4	247.1	248.0	243.0	240.4	241.9	248.6	242.6	251.4	244.5	234.4	258.6	46.7	59.1	54.3	43.8	49.0		246.0	258.6
20		70.7	79.1	45.0	56.0	62.3	91.8	82.9	69.8	59.3	42.4	50.1	51.3	59.2	61.8	65.0	68.3	77.1	79.2	78.4	82.1	80.1	86.6	85.4	60.5		69.7	91.8
21		63.5	73.2	75.1	67.8	74.8	85.7	62.4	53.3	60.9	59.5	54.3	61.7	69.0	69.5	69.4	68.2	67.5	63.6	61.4	62.7	69.2	66.0	65.3	59.7		66.2	85.7
22		56.9	60.0	67.3	67.5	70.9	76.9	78.9	74.2	69.3	69.2	61.1	69.0	66.8	70.4	57.0	53.5	57.4	66.2	73.0	86.8	90.2	84.0	76.4	79.0		69.6	90.2
23		76.4	73.7	66.5	53.6	59.3	55.9	54.6	55.3	61.6	65.0	64.6	70.0	76.1	69.6	67.8	72.7	73.9	78.3	63.1	62.9	59.1	42.1	45.7	54.0		63.9	78.3
24		52.5	46.8	58.5	222.7	206.5	254.0	282.2	289.4	274.3	258.5	251.7	243.2	232.0	232.3	236.3	237.7	238.3	237.4	240.7	238.8	233.3	239.7	239.9	242.2		244.0	289.4
25		244.1	246.4	240.7	241.5	242.3	234.5	233.5	240.0	242.9	235.9	240.8	240.2	245.4	243.5	239.9	242.9	243.8	244.2	244.8	245.7	241.7	243.2	246.9	249.6		242.3	249.6
26		253.2	248.7	242.4	236.5	234.1	250.1	257.7	276.8	278.2	266.9	152.9	237.1	252.7	249.3	237.9	244.6	249.6	240.8	233.1	240.7	243.8	235.1	237.2	249.1		245.3	278.2
27		248.5	258.6	254.0	211.3	217.3	250.6	278.0	274.1	260.7	253.4	247.3	238.6	235.5	232.4	235.9	243.0	250.0	253.0	255.9	226.1	193.7	258.8	230.3	239.5		245.2	278.0
28		263.4	256.7	242.1	257.2	250.7	254.3	242.7	246.7	260.4	228.0	213.4	150.1	55.3	60.0	66.2	74.8	76.5	72.3	81.0	74.3	82.7	71.3	37.0	55.3		72.6	263.4
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	100.0%
MEAN		202.5	202.6	198.3	203.9	209.4	217.1	211.6	212.0	213.1	212.0	205.9	207.6	201.5	198.5	198.1	199.1	200.2	199.7	200.4	198.2	197.4	194.1	193.6	193.4		202.9	
MAX		280.5	295.9	280.1	271.5	267.1	284.4	288.5	290.5	298.9	349.9	313.1	273.5	252.7	289.8	269.1	265.2	263.6	260.8	258.6	254.1	308.7	268.2	272.9	274.2			349.9



Number of Non-Zero Readings	672		
Maximum 1-HR Average	350 degrees		
Maximum 24-HR Average	259 degrees		
Monthly Calibration	0	Operational Time	672 HRS
Standard Deviation	78.21	Operational Uptime	100.0 %
		Monthly Average	202.9 degrees

Lagoon Pressure (mmHg) – February 2023

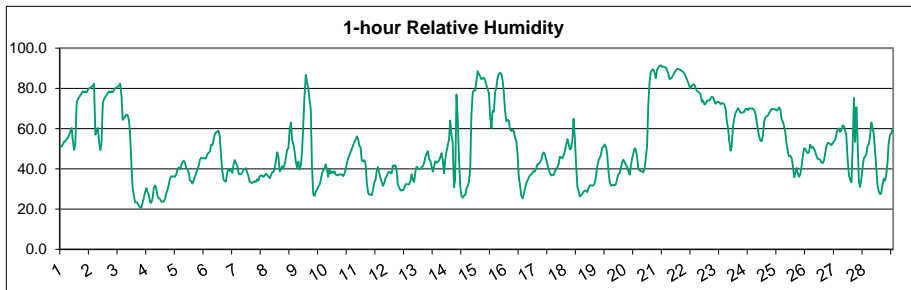
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	646.9	647.0	646.9	647.2	647.0	646.9	646.7	646.9	647.3	647.7	647.6	647.7	648.0	648.7	649.2	650.2	651.1	651.8	652.4	652.7	652.7	652.5	652.6	649.2	652.7	
2	652.3	652.3	652.0	651.8	651.2	650.9	650.6	650.5	650.6	650.9	650.8	650.2	649.0	648.0	647.8	647.7	647.8	647.9	647.8	647.8	647.8	647.8	647.5	647.1	649.5	652.3
3	646.8	646.6	646.4	646.2	645.9	646.0	645.9	645.9	645.6	645.7	645.3	644.9	644.5	644.0	643.5	643.4	643.3	643.4	643.1	642.5	642.4	642.4	642.7	643.0	644.6	646.8
4	643.2	642.9	642.6	642.8	643.4	644.5	645.1	645.4	645.2	646.1	646.5	646.9	647.3	647.3	647.1	647.4	647.6	647.4	647.3	647.4	647.2	646.8	646.4	646.2	645.8	647.6
5	645.6	645.3	645.1	644.7	644.1	643.6	642.8	642.3	641.7	641.1	640.7	640.3	639.4	638.9	638.8	639.1	639.5	640.1	640.4	640.7	641.1	641.5	642.6	643.5	641.8	645.6
6	644.3	645.0	645.3	645.9	646.6	647.1	647.4	647.9	648.1	647.9	647.7	647.7	647.4	646.7	646.7	646.7	646.7	646.7	646.9	646.7	647.3	647.0	646.4	646.7	646.8	648.1
7	647.0	646.9	647.4	647.5	647.7	647.5	647.3	647.7	648.0	648.0	647.9	647.7	647.5	647.1	646.4	645.9	645.6	645.3	645.1	644.9	644.7	644.7	644.7	644.1	646.5	648.0
8	644.2	644.4	644.8	645.6	646.8	647.8	648.8	650.0	651.1	652.2	653.0	653.6	653.5	653.5	653.8	654.3	655.1	655.6	656.1	656.6	656.7	657.0	657.2	657.3	652.0	657.3
9	657.4	656.7	656.2	655.9	655.5	655.3	654.8	654.5	654.6	654.8	654.4	654.1	653.9	653.4	653.2	652.8	652.3	652.1	652.0	651.7	651.5	651.0	650.5	650.1	653.7	657.4
10	649.6	648.7	648.1	647.8	647.8	647.7	647.4	647.4	647.4	647.3	647.6	648.2	648.5	648.6	648.8	649.0	649.1	649.4	649.6	648.5	647.9	648.8	649.6	650.0	648.5	650.0
11	650.0	649.8	649.9	650.0	649.9	649.8	649.8	649.9	649.8	649.5	649.3	649.1	648.9	648.5	648.0	648.0	647.9	648.0	648.6	648.9	649.3	649.4	649.4	649.4	649.2	650.0
12	649.4	649.4	649.2	648.9	648.7	649.0	648.4	648.2	648.0	647.5	647.1	646.6	645.4	643.8	643.7	643.5	643.1	642.1	642.1	641.7	641.6	641.2	640.4	638.8	645.3	649.4
13	637.8	636.9	636.2	635.8	635.6	635.5	635.8	635.7	636.3	637.3	637.0	636.5	636.1	635.6	635.9	636.2	636.6	637.0	637.7	638.3	638.8	639.8	640.2	640.6	637.1	640.6
14	641.1	642.3	643.4	644.1	644.8	645.5	646.1	646.9	647.6	648.1	648.7	648.9	648.8	648.7	648.7	648.9	649.7	650.1	650.4	650.5	650.5	650.6	650.6	650.5	647.7	650.6
15	650.2	650.3	650.4	650.6	650.4	650.4	650.4	650.6	650.7	650.7	650.7	650.2	650.1	649.8	649.7	649.8	649.9	650.0	650.1	650.6	650.8	650.9	650.9	651.1	650.4	651.1
16	651.3	651.3	651.0	650.7	650.3	649.9	649.5	648.9	648.4	648.0	647.3	646.8	646.0	645.5	645.4	645.3	645.5	645.6	646.2	646.5	646.9	647.1	647.1	647.0	647.8	651.3
17	647.0	647.0	647.3	647.4	647.5	647.8	648.2	648.4	648.7	648.8	649.1	649.0	648.8	648.1	647.6	647.3	647.2	646.8	646.9	646.6	646.3	645.9	645.3	644.8	647.4	649.1
18	644.3	643.9	643.8	643.5	643.5	643.7	643.8	643.9	644.2	644.7	644.8	644.7	644.7	644.8	645.0	645.3	645.7	646.0	646.0	646.2	646.3	646.3	646.0	645.8	644.9	646.3
19	645.3	644.4	643.5	643.0	642.6	642.2	642.1	641.7	641.2	641.1	640.9	641.0	640.9	640.4	639.9	640.1	640.6	640.8	641.3	642.1	642.5	642.8	643.1	643.5	642.0	645.3
20	644.0	644.5	644.7	645.5	646.2	646.6	647.2	647.4	647.6	647.6	647.5	646.9	646.1	645.0	643.8	642.5	641.2	639.8	638.6	638.0	637.7	637.3	637.1	643.4	647.6	672
21	638.5	639.8	641.0	641.6	642.3	642.8	643.4	644.0	644.6	645.1	645.5	645.8	646.1	646.3	646.4	646.6	647.1	647.6	648.2	649.0	649.4	649.8	650.1	650.3	645.5	650.3
22	650.6	650.8	650.8	650.7	650.7	650.9	651.0	651.2	651.6	651.7	651.6	651.4	651.1	650.9	650.7	650.8	651.1	651.4	651.8	652.2	652.6	652.8	652.8	652.8	651.4	652.8
23	652.8	653.2	653.4	653.6	653.8	654.2	654.4	654.6	654.9	655.2	654.8	655.0	654.9	654.6	654.4	654.4	654.4	654.7	654.8	654.9	654.6	654.4	653.9	653.4	654.3	655.2
24	652.8	652.5	651.8	651.0	650.1	649.2	648.3	647.8	647.3	646.9	646.5	646.0	645.0	643.9	643.0	643.0	642.9	642.8	643.0	643.0	643.1	643.1	643.4	643.4	646.2	652.8
25	643.6	643.9	644.2	644.2	644.1	643.3	642.9	642.8	642.6	642.4	641.9	641.4	640.8	640.0	639.7	639.1	638.6	638.0	637.3	637.2	636.6	635.9	635.5	635.0	640.5	644.2
26	634.5	633.7	633.1	632.4	632.0	631.6	631.4	631.1	631.1	631.2	631.0	630.6	630.4	630.2	629.9	630.7	631.8	632.4	633.2	633.3	633.7	634.6	635.3	635.9	632.3	635.9
27	636.3	636.6	637.4	637.9	638.4	638.9	639.4	639.6	639.9	639.8	639.5	639.3	639.3	639.2	639.0	638.9	638.9	639.0	639.2	639.3	639.0	638.8	638.7	638.6	638.8	639.9
28	638.6	638.4	638.1	637.8	637.7	637.7	637.7	637.8	638.1	638.5	638.5	638.5	638.8	639.0	639.3	639.8	640.3	641.1	641.9	642.5	642.9	643.1	643.4	643.6	639.7	643.6
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672	100.0%	
MEAN	645.9	645.9	645.9	645.9	645.9	645.9	646.0	646.0	646.1	646.3	646.2	646.0	645.8	645.4	645.2	645.2	645.4	645.5	645.6	645.7	645.8	645.8	645.8	645.8	645.9	650.0
MAX	657.4	656.7	656.2	655.9	655.5	655.3	654.8	654.6	654.9	655.2	654.8	655.0	654.9	654.6	654.4	654.4	654.4	654.4	654.7	654.8	654.9	654.6	654.4	653.9	654.3	655.2



Number of Non-Zero Readings	672
Maximum 1-HR Average	657 MMHg
Maximum 24-HR Average	654 MMHg
Operational Time	672 HRS
Operational Uptime	100.0 %
Standard Deviation	5.424
Monthly Calibration	0
Monthly Average	645.8 MMHg

Lagoon Relative Humidity (%) – February 2023

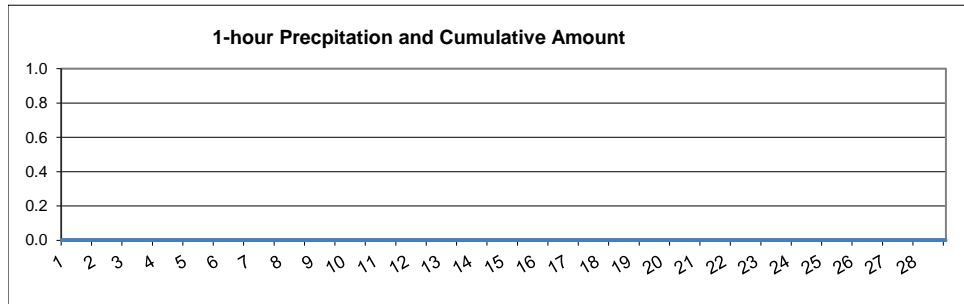
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	50.7	51.3	52.3	53.6	53.7	54.9	55.4	57.0	58.7	60.3	53.9	49.5	52.3	72.8	74.5	75.8	76.5	77.5	78.6	78.0	78.5	78.1	79.2	80.1	64.7	80.1	
2	80.1	80.9	81.3	82.4	75.8	64.4	65.3	66.0	66.9	66.6	64.0	57.1	41.3	30.7	26.6	23.3	23.4	23.0	21.7	20.9	20.7	23.1	25.6	28.2	48.3	82.4	
3	30.5	28.6	27.1	23.3	23.1	25.6	30.5	31.8	30.3	26.3	25.5	25.0	23.8	23.7	23.7	25.2	27.7	29.6	32.1	35.2	36.3	36.3	36.2	36.0	28.9	36.3	
4	37.6	39.6	40.7	39.8	41.7	43.4	44.0	43.1	40.4	40.0	38.1	34.4	33.8	32.7	34.4	36.1	38.0	40.0	41.5	44.4	45.6	45.4	45.3	45.1	40.2	45.6	
5	45.4	47.4	48.0	48.6	52.0	51.8	54.5	57.3	58.2	58.6	58.9	55.8	46.4	39.0	34.8	33.8	33.7	38.2	40.2	39.0	39.7	38.0	42.4	44.3	46.1	58.9	
6	42.8	41.6	37.7	37.2	37.4	38.2	40.1	39.9	40.3	38.1	36.2	33.5	33.1	33.0	33.4	33.8	33.5	34.8	34.2	36.2	36.9	36.6	35.9	36.8	36.7	42.8	
7	37.6	37.0	36.1	35.4	36.7	38.3	38.5	40.4	43.8	48.2	46.6	38.8	39.5	41.4	40.1	42.2	45.2	49.3	50.3	59.2	63.1	54.6	52.2	48.8	44.3	63.1	
8	43.4	40.7	43.6	39.7	41.8	48.2	62.6	75.9	86.8	83.3	80.0	75.0	69.4	42.2	27.4	26.5	28.5	29.7	31.2	32.2	34.3	37.6	39.3	39.8	48.3	86.8	
9	42.2	39.6	36.0	39.6	37.7	38.7	38.0	38.9	37.2	36.8	36.7	37.3	37.2	37.3	36.4	37.5	39.8	43.0	45.2	46.8	48.5	49.9	51.8	53.4	41.1	53.4	
10	54.5	56.2	54.9	51.5	50.5	44.2	43.8	44.4	42.6	33.7	28.0	27.2	27.1	27.0	29.8	33.4	34.7	39.3	41.0	37.7	35.5	33.4	31.5	33.0	39.0	56.2	
11	35.4	36.3	38.1	38.6	38.0	37.8	41.8	41.3	41.9	38.9	32.4	30.7	29.2	29.4	29.3	30.4	32.4	32.5	32.2	32.4	33.9	37.3	34.4	33.5	34.9	41.9	
12	38.6	41.1	40.4	39.7	40.0	40.8	41.2	42.8	45.8	47.3	48.8	44.7	44.0	41.0	38.6	41.3	43.9	43.0	43.5	44.3	45.8	47.8	44.1	37.7	42.8	48.8	
13	44.8	48.9	51.5	54.7	64.0	56.7	53.4	30.9	34.5	77.0	63.3	45.0	31.1	26.5	25.6	26.7	27.1	30.1	31.5	33.5	40.5	66.7	78.0	79.0	46.7	79.0	
14	79.0	83.3	88.6	87.2	86.0	84.7	84.9	85.3	84.1	81.5	79.8	77.5	65.9	60.3	68.9	68.4	77.9	80.8	85.2	87.1	87.9	87.1	84.4	78.0	80.6	88.6	
15	69.1	63.6	64.4	64.0	59.8	58.8	59.5	58.7	55.3	53.8	47.0	36.5	31.6	26.9	25.2	27.4	30.3	32.7	34.3	35.6	36.8	37.2	38.2	38.9	45.2	69.1	
16	38.8	40.1	42.4	42.2	43.2	44.5	47.0	48.2	47.1	44.5	42.2	39.8	37.7	36.8	37.0	37.0	38.9	39.6	40.8	42.4	46.0	45.8	45.2	46.6	42.2	48.2	
17	48.8	51.8	54.9	52.4	49.7	50.1	54.9	64.9	54.5	42.6	31.1	29.0	26.3	26.9	27.7	28.5	29.2	29.3	28.5	30.3	31.7	32.0	31.7	31.8	39.1	64.9	
18	33.1	36.5	41.4	44.3	45.5	47.3	50.6	50.9	52.2	50.9	47.4	38.5	33.8	31.6	32.0	31.9	31.8	32.5	35.1	37.4	37.9	40.4	43.2	44.6	40.4	52.2	
19	43.1	42.1	40.9	39.0	37.1	41.6	45.3	47.7	50.2	49.7	45.6	40.5	39.1	38.9	38.8	38.2	40.3	45.0	51.7	71.0	82.9	88.0	89.2	89.4	51.5	89.4	
20	87.8	85.0	89.2	90.4	91.3	91.4	90.8	90.8	90.7	90.4	89.2	87.3	84.7	84.8	85.4	86.9	87.7	88.8	89.6	89.7	89.5	89.1	88.6	88.2	88.6	88.2	91.4
21	87.3	86.1	84.2	83.0	80.9	79.9	81.5	82.0	81.8	80.1	78.8	78.3	77.9	76.9	73.3	74.1	72.0	72.3	73.8	74.0	74.1	75.1	75.8	75.5	78.3	87.3	
22	73.8	72.4	73.1	73.3	73.1	72.2	72.7	72.5	72.0	70.1	64.3	60.1	54.2	49.0	50.9	61.2	64.8	67.7	69.1	70.2	69.2	68.0	67.8	68.2	67.1	73.8	
23	68.3	69.8	69.8	69.2	70.1	70.1	70.0	69.2	67.6	63.4	59.6	56.0	54.2	53.7	56.7	63.5	65.7	66.1	66.6	67.7	68.8	69.8	69.7	69.7	65.6	70.1	
24	69.6	69.6	69.0	69.5	70.6	69.6	64.8	63.4	61.5	58.0	52.8	48.6	46.3	46.5	45.3	41.8	35.9	37.9	40.4	37.8	36.1	37.4	41.2	46.1	52.5	70.6	
25	50.1	50.0	48.6	47.7	48.3	52.1	50.5	51.0	50.0	48.7	46.5	45.0	44.8	44.5	43.2	42.9	44.0	48.0	51.5	53.0	52.8	52.3	51.7	52.8	48.7	53.0	
26	53.6	54.4	57.2	59.6	60.1	58.3	59.2	61.5	61.3	59.0	56.9	44.7	36.7	34.7	33.2	49.5	75.2	53.5	70.6	54.5	33.7	31.1	34.9	40.5	51.4	75.2	
27	45.3	45.9	47.3	51.2	52.4	55.6	63.0	60.8	57.3	48.5	40.8	31.5	28.9	27.4	27.7	32.5	35.1	34.1	36.7	43.3	52.7	57.0	57.6	59.6	45.5	63.0	
28	60.0	60.6	64.0	63.8	65.7	66.9	70.5	76.8	79.2	74.2	63.8	59.7	60.1	63.4	66.7	72.9	77.7	80.2	81.1	80.2	79.9	81.2	84.2	84.6	71.5	84.6	
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	100.0%	
MEAN	53.3	53.6	54.4	54.3	54.5	54.5	56.2	56.9	56.9	56.2	52.2	47.5	44.0	42.1	41.6	43.4	46.0	47.1	49.2	50.5	51.4	52.7	53.6	53.9			
MAX	87.8	86.1	89.2	90.4	91.3	91.4	90.8	90.8	90.7	90.4	89.2	87.3	84.7	84.8	85.4	86.9	87.7	88.8	89.6	89.7	89.5	89.1	89.2	89.4			



Number of Non-Zero Readings	672	Operational Time	672 HRS
Maximum 1-HR Average	91.4 %	Operational Uptime	100.0 %
Maximum 24-HR Average	88.6 %	Monthly Average	51.1 %
Monthly Calibration	0		
Standard Deviation	17.98		

Lagoon Precipitation (mm) – February 2023

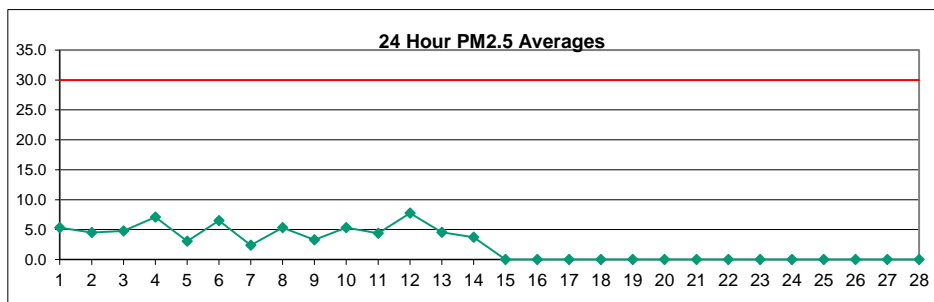
Day	HOUR																								TOTAL	MAX			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
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	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	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	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	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	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	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	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	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	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	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



Number of Non-Zero Readings	0		
Maximum 1-HR Average	0.0 MM		
Maximum 24-HR Average	0.0 MM		
	Operational Time	672 HRS	
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	0	Monthly Average	0.00 MM

Windridge PM_{2.5} (µg/m³) – February 2023

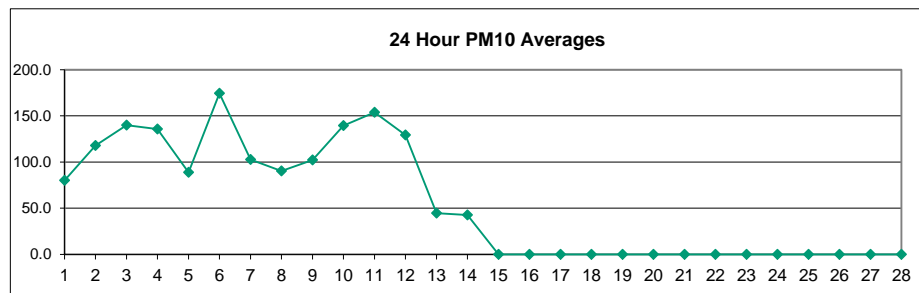
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	6.0	6.0	4.0	1.0	3.0	4.0	8.0	6.0	3.0	3.0	6.0	5.0	5.0	6.0	8.0	8.0	6.0	5.0	4.0	4.0	7.0	6.0	8.0	6.0	5.3	8.0	
2	8.0	7.0	5.0	4.0	2.0	2.0	4.0	3.0	2.0	1.0	1.0	3.0	0.0	5.0	9.0	9.0	6.0	3.0	7.0	6.0	5.0	5.0	4.0	7.0	4.5	9.0	
3	5.0	7.0	7.0	5.0	4.0	3.0	6.0	11.0	9.0	6.0	3.0	5.0	4.0	7.0	5.0	3.0	1.0	0.0	5.0	7.0	6.0	2.0	0.0	4.0	4.8	11.0	
4	4.0	6.0	12.0	8.0	4.0	2.0	1.0	2.0	0.0	6.0	43.0	33.0	7.0	5.0	8.0	5.0	0.0	1.0	2.0	2.0	3.0	4.0	7.0	5.0	7.1	43.0	
5	4.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0	8.0	7.0	10.0	6.0	5.0	3.0	3.0	6.0	4.0	5.0	4.0	3.0	10.0	
6	4.0	5.0	4.0	3.0	10.0	7.0	5.0	7.0	4.0	1.0	11.0	8.0	6.0	13.0	11.0	14.0	8.0	10.0	9.0	4.0	3.0	5.0	3.0	1.0	6.5	14.0	
7	4.0	6.0	4.0	3.0	2.0	1.0	0.0	4.0	5.0	3.0	3.0	6.0	3.0	1.0	3.0	1.0	1.0	0.0	0.0	4.0	3.0	0.0	0.0	0.0	2.4	6.0	
8	1.0	2.0	3.0	4.0	5.0	4.0	3.0	3.0	3.0	2.0	0.0	0.0	2.0	2.0	6.0	10.0	9.0	19.0	22.0	6.0	5.0	6.0	5.0	6.0	5.3	22.0	
9	3.0	5.0	4.0	1.0	2.0	2.0	2.0	7.0	4.0	5.0	7.0	15.0	8.0	1.0	0.0	1.0	0.0	0.0	3.0	3.0	2.0	1.0	2.0	1.0	3.3	15.0	
10	0.0	0.0	0.0	3.0	1.0	0.0	0.0	3.0	3.0	3.0	55.0	13.0	8.0	8.0	5.0	3.0	2.0	0.0	0.0	3.0	8.0	5.0	2.0	3.0	5.3	55.0	
11	3.0	1.0	2.0	3.0	3.0	2.0	0.0	4.0	4.0	3.0	5.0	7.0	4.0	6.0	7.0	11.0	15.0	11.0	6.0	4.0	2.0	0.0	0.0	2.0	4.4	15.0	
12	2.0	3.0	6.0	18.0	11.0	6.0	6.0	8.0	16.0	33.0	11.0	11.0	12.0	21.0	12.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	33.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	5.0	2.0	22.0	24.0	17.0	19.0	9.0	4.0	0.0	2.0	0.0	0.0	1.0	0.0	0.0	4.5	24.0	
14	1.0	1.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	4.0	4.0	6.0	6.0	14.0	14.0	9.0	4.0	2.0	2.0	4.0	6.0	4.0	2.0	3.0	3.7	14.0	
15	3.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	NRM	P	P	P	P	P	P	P	P	P	P	P	P			
16	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
19	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
22	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
23	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
24	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
25	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
27	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
28	P	P	P	P	P	P	P	P	P	P	C	C	C	0.0	1.0	4.0	4.0	6.0	6.0	12.0	10.0	9.0	11.0	12.0			
NO.	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	358	53.7%	
MEAN	3.2	3.6	3.5	3.5	3.2	2.3	2.4	3.9	3.7	5.1	10.1	9.6	6.5	7.6	7.7	6.9	4.5	4.3	4.7	4.1	4.4	3.5	3.3	3.6	7.5		
MAX	8.0	7.0	12.0	18.0	11.0	7.0	8.0	11.0	16.0	33.0	55.0	33.0	24.0	21.0	19.0	14.0	15.0	19.0	22.0	12.0	10.0	9.0	11.0	12.0	17.4	70.0	



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	293	
Maximum 1-HR Average	55.0 UG/M3	
Maximum 24-HR Average	7.8 UG/M3	
Monthly Calibration	3	Operational Time
Standard Deviation	5.7	Operational Uptime
		Monthly Average
		361 HRS
		53.7 %
		4.8 UG/M3

Windridge PM10 (µg/m³) – February 2023

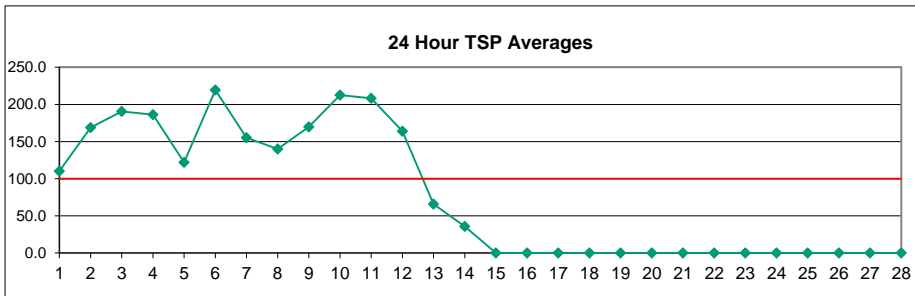
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	140.0	104.0	100.0	57.0	93.0	115.0	209.0	228.0	130.0	109.0	122.0	72.0	48.0	17.0	57.0	79.0	50.0	66.0	48.0	17.0	18.0	10.0	18.0	17.0	80.2	228.0	
2	13.0	34.0	25.0	23.0	60.0	77.0	143.0	97.0	48.0	18.0	25.0	69.0	93.0	196.0	416.0	229.0	217.0	171.0	122.0	171.0	164.0	86.0	165.0	164.0	117.8	416.0	
3	233.0	342.0	150.0	86.0	350.0	155.0	224.0	472.0	133.0	124.0	123.0	116.0	90.0	88.0	68.0	41.0	46.0	36.0	61.0	98.0	100.0	81.0	65.0	79.0	140.0	472.0	
4	78.0	151.0	329.0	263.0	107.0	57.0	37.0	35.0	99.0	296.0	405.0	244.0	89.0	134.0	130.0	47.0	74.0	86.0	127.0	85.0	75.0	118.0	137.0	54.0	135.7	405.0	
5	92.0	92.0	41.0	4.0	4.0	2.0	13.0	7.0	48.0	75.0	60.0	71.0	86.0	83.0	250.0	311.0	174.0	147.0	127.0	62.0	54.0	120.0	102.0	105.0	88.8	311.0	
6	111.0	51.0	40.0	65.0	80.0	73.0	54.0	74.0	68.0	104.0	178.0	351.0	414.0	485.0	485.0	406.0	198.0	203.0	175.0	83.0	72.0	175.0	146.0	94.0	174.4	485.0	
7	91.0	102.0	111.0	72.0	58.0	33.0	124.0	180.0	119.0	92.0	113.0	115.0	87.0	112.0	73.0	105.0	166.0	85.0	120.0	102.0	94.0	67.0	114.0	132.0	102.8	180.0	
8	117.0	100.0	94.0	115.0	62.0	39.0	6.0	31.0	12.0	10.0	5.0	2.0	6.0	93.0	195.0	190.0	221.0	192.0	108.0	83.0	95.0	84.0	170.0	134.0	90.2	221.0	
9	43.0	113.0	55.0	48.0	76.0	60.0	51.0	485.0	61.0	122.0	146.0	445.0	93.0	61.0	45.0	61.0	90.0	47.0	72.0	71.0	101.0	26.0	53.0	25.0	102.1	485.0	
10	5.0	4.0	55.0	142.0	57.0	84.0	116.0	125.0	86.0	159.0	485.0	334.0	159.0	184.0	92.0	96.0	62.0	75.0	27.0	195.0	485.0	139.0	84.0	96.0	139.4	485.0	
11	50.0	54.0	53.0	61.0	91.0	43.0	30.0	114.0	79.0	154.0	217.0	163.0	120.0	233.0	370.0	440.0	443.0	299.0	193.0	194.0	33.0	66.0	80.0	113.0	153.9	443.0	
12	50.0	76.0	186.0	275.0	164.0	108.0	106.0	119.0	148.0	222.0	164.0	100.0	153.0	448.0	485.0	72.0	57.0	41.0	29.0	42.0	12.0	9.0	5.0	30.0	129.2	485.0	
13	7.0	9.0	7.0	12.0	11.0	20.0	64.0	24.0	35.0	28.0	24.0	139.0	153.0	157.0	134.0	83.0	36.0	16.0	22.0	10.0	6.0	54.0	11.0	6.0	44.5	157.0	
14	2.0	296.0	162.0	50.0	29.0	14.0	10.0	11.0	33.0	80.0	28.0	46.0	20.0	38.0	46.0	28.0	59.0	9.0	10.0	7.0	11.0	7.0	14.0	12.0	42.6	296.0	
15	7.0	5.0	1.0	5.0	7.0	2.0	6.0	21.0	26.0	37.0	32.0	NRM	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0	
16	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
19	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
22	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
23	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
24	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
25	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
27	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	42.6	296.0
28	P	P	P	P	P	P	P	P	P	P	P	C	C	C	18.0	31.0	121.0	92.0	49.0	61.0	32.0	20.0	34.0	22.0	29.0	42.6	296.0
NO.	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	15	15	15	15	358	53.7%
MEAN	69.3	102.2	93.9	85.2	83.3	58.8	79.5	134.9	75.0	108.7	141.8	161.9	115.1	156.5	191.8	153.9	132.3	101.5	86.8	83.5	89.3	71.7	79.1	72.7	42.0	485.0	433.3
MAX	233.0	342.0	329.0	275.0	350.0	155.0	224.0	485.0	148.0	296.0	485.0	445.0	414.0	485.0	485.0	440.0	443.0	299.0	193.0	195.0	485.0	175.0	170.0	164.0	91.1	485.0	433.3



Number of Non-Zero Readings	358
Maximum 1-HR Average	485.0 UG/M3
Maximum 24-HR Average	174.4 UG/M3
Operational Time	361 HRS
Operational Uptime	53.7 %
Monthly Calibration	3
Standard Deviation	101.6
Monthly Average	105.2 UG/M3

Windridge TSP (µg/m³) – February 2023

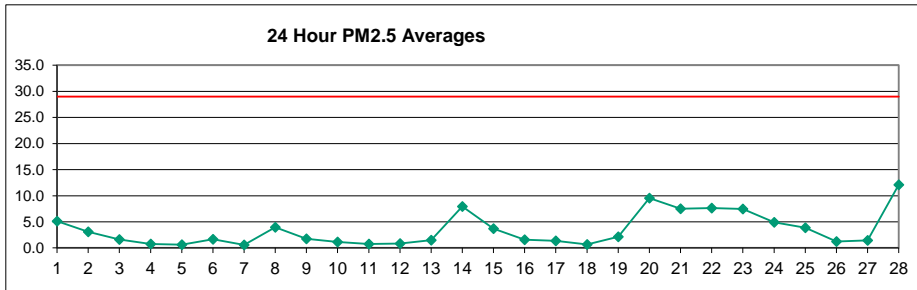
Day	Hour																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	171.0	103.0	140.0	56.0	136.0	186.0	370.0	297.0	163.0	186.0	232.0	114.0	75.0	32.0	58.0	87.0	50.0	69.0	40.0	12.0	17.0	14.0	23.0	18.0	110.4	370.0	
2	26.0	53.0	34.0	27.0	96.0	113.0	172.0	111.0	64.0	25.0	44.0	126.0	182.0	258.0	317.0	305.0	269.0	276.0	213.0	290.0	305.0	161.0	306.0	281.0	168.9	317.0	
3	285.0	325.0	249.0	163.0	347.0	224.0	337.0	545.0	221.0	224.0	217.0	199.0	124.0	132.0	88.0	64.0	62.0	48.0	86.0	145.0	145.0	123.0	104.0	115.0	190.5	545.0	
4	129.0	222.0	331.0	272.0	155.0	72.0	54.0	64.0	167.0	459.0	465.0	308.0	132.0	200.0	195.0	86.0	126.0	138.0	196.0	136.0	125.0	164.0	193.0	84.0	186.4	465.0	
5	140.0	115.0	53.0	3.0	7.0	5.0	17.0	4.0	72.0	104.0	86.0	110.0	125.0	140.0	297.0	354.0	209.0	231.0	207.0	95.0	76.0	187.0	148.0	141.0	121.9	354.0	
6	162.0	80.0	62.0	98.0	122.0	110.0	83.0	106.0	109.0	191.0	300.0	368.0	337.0	443.0	559.0	446.0	222.0	229.0	263.0	123.0	104.0	343.0	246.0	160.0	219.4	559.0	
7	138.0	151.0	184.0	109.0	84.0	54.0	213.0	277.0	187.0	151.0	200.0	197.0	139.0	172.0	120.0	150.0	220.0	120.0	154.0	147.0	122.0	96.0	156.0	183.0	155.2	277.0	
8	128.0	128.0	128.0	196.0	84.0	51.0	21.0	26.0	16.0	2.0	0.0	0.0	12.0	152.0	319.0	291.0	368.0	309.0	208.0	147.0	170.0	129.0	259.0	213.0	139.9	368.0	
9	65.0	229.0	112.0	86.0	159.0	81.0	117.0	678.0	129.0	240.0	245.0	565.0	192.0	142.0	87.0	109.0	188.0	90.0	128.0	126.0	152.0	46.0	64.0	48.0	169.9	678.0	
10	9.0	8.0	89.0	168.0	69.0	111.0	161.0	183.0	151.0	312.0	985.0	445.0	211.0	288.0	148.0	148.0	99.0	130.0	43.0	317.0	546.0	225.0	130.0	125.0	212.5	985.0	
11	68.0	88.0	81.0	106.0	140.0	68.0	55.0	163.0	124.0	178.0	274.0	238.0	167.0	279.0	441.0	484.0	617.0	388.0	287.0	278.0	68.0	111.0	141.0	156.0	208.3	617.0	
12	83.0	141.0	292.0	380.0	260.0	173.0	170.0	196.0	207.0	287.0	203.0	158.0	204.0	406.0	361.0	91.0	77.0	57.0	43.0	59.0	15.0	16.0	9.0	44.0	163.8	406.0	
13	18.0	17.0	7.0	8.0	17.0	31.0	78.0	42.0	68.0	30.0	38.0	192.0	227.0	236.0	206.0	119.0	55.0	23.0	38.0	17.0	8.0	86.0	14.0	7.0	65.9	236.0	
14	9.0	179.0	125.0	21.0	29.0	11.0	7.0	6.0	9.0	68.0	16.0	56.0	29.0	69.0	63.0	41.0	35.0	12.0	13.0	11.0	9.0	7.0	16.0	15.0	35.7	179.0	
15	11.0	10.0	8.0	6.0	9.0	11.0	8.0	38.0	56.0	63.0	53.0	NRM	P	P	P	P	P	P	P	P	P	P	P	P			
16	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
19	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
22	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
23	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
24	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
25	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
27	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
28	P	P	P	P	P	P	P	P	P	P	C	C	C	26.0	35.0	108.0	98.0	103.0	129.0	48.0	32.0	33.0	19.0	18.0			
NO.	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	15	15	15	15	358	53.7%
MEAN	96.1	123.3	126.3	113.3	114.3	86.7	124.2	182.4	116.2	168.0	223.9	219.7	154.0	198.3	219.6	192.2	179.7	148.2	136.5	130.1	126.3	116.1	121.9	107.2			
MAX	285.0	325.0	331.0	380.0	347.0	224.0	370.0	678.0	221.0	459.0	985.0	565.0	337.0	443.0	559.0	484.0	617.0	388.0	287.0	317.0	546.0	343.0	306.0	281.0			



Number of 24HR Exceedences	12	Proposed Guideline
Number of Non-Zero Readings	356	
Maximum 1-HR Average	985.0 UG/M3	
Maximum 24-HR Average	219.4 UG/M3	
IZS Calibration Time		Operational Time 361 HRS
Down Time	0	Operational Uptime 53.7 %
Standard Deviation	127.2	Monthly Average 146.6 UG/M3

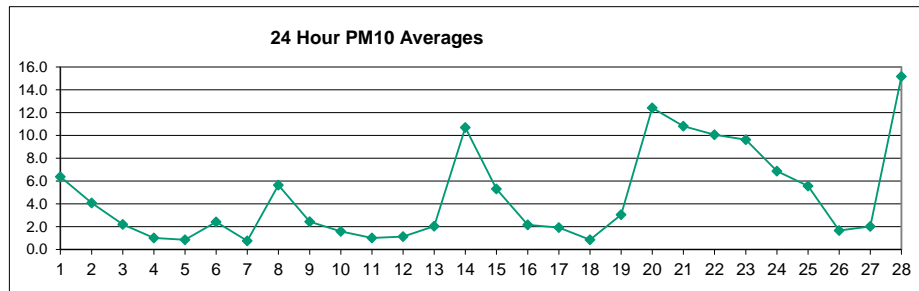
West PM_{2.5} (µg/m³) – February 2023

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	1.7	2.0	2.0	1.5	1.4	1.4	1.4	1.4	1.4	1.6	1.9	2.2	2.8	11.7	12.5	10.6	9.1	8.0	6.5	6.6	7.7	7.8	8.9	10.6	5.1	12.5	
2	9.5	9.6	11.4	9.9	2.2	1.2	1.2	1.2	1.2	1.3	1.5	2.3	2.3	2.1	2.0	1.8	1.9	1.9	1.6	1.7	1.9	1.5	1.7	1.6	3.1	11.4	
3	1.6	1.8	1.5	1.7	2.7	2.0	2.1	2.7	1.7	1.7	1.4	1.3	1.4	1.4	1.5	1.0	1.1	1.1	1.3	1.4	1.8	1.7	1.3	1.2	1.6	2.7	
4	0.9	0.9	1.4	1.2	0.8	0.6	0.5	0.8	0.9	1.8	1.3	0.8	0.5	0.5	0.3	0.3	0.4	0.5	0.7	0.5	0.7	0.6	0.5	0.4	0.7	1.8	
5	0.7	0.3	0.4	0.3	0.3	0.4	0.6	0.6	0.6	0.6	0.7	0.9	1.4	0.7	0.5	1.0	0.9	0.6	0.5	0.4	0.4	0.7	1.7	0.3	0.6	1.7	
6	0.3	0.2	0.3	0.6	0.9	0.6	0.8	0.7	1.0	1.4	2.2	1.6	1.5	5.2	3.2	3.9	1.4	1.2	2.5	0.5	0.7	1.0	6.5	1.8	1.7	6.5	
7	0.8	0.7	0.8	0.4	0.4	0.3	0.4	0.5	1.0	1.0	2.7	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.6	2.7	
8	0.5	0.5	0.6	0.6	0.5	0.5	12.0	15.7	10.1	10.4	12.4	9.8	7.1	3.5	0.6	0.6	1.1	1.3	1.0	1.0	1.4	1.5	1.1	0.8	3.9	15.7	
9	0.7	0.7	0.5	0.8	1.2	0.7	2.2	10.0	2.1	1.5	2.0	3.3	2.3	1.9	2.1	1.8	1.4	1.1	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.8	10.0
10	1.0	1.0	1.0	1.5	1.0	0.9	1.0	1.3	0.6	0.8	4.9	1.3	0.9	0.8	0.7	0.8	0.8	0.7	0.9	1.2	2.3	1.2	0.6	0.4	1.2	4.9	
11	0.4	0.5	0.5	0.5	0.6	0.5	0.6	0.7	0.8	0.9	0.6	0.7	0.8	0.8	1.0	1.3	1.3	1.1	0.5	0.5	0.7	0.7	0.7	1.2	0.8	1.3	
12	1.2	0.6	0.8	0.7	1.1	0.9	1.7	0.8	0.7	1.3	0.9	1.2	0.6	1.6	1.4	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.6	0.5	0.8	1.7	
13	0.5	0.3	0.3	0.3	0.2	0.7	0.7	0.5	0.9	9.0	0.8	1.3	0.8	0.5	0.3	0.4	0.3	0.5	0.8	0.8	2.5	2.3	6.5	5.0	1.5	9.0	
14	4.7	9.4	8.8	12.0	8.6	5.4	4.9	8.1	7.1	8.4	6.0	7.0	5.5	4.8	15.8	11.5	9.4	7.1	9.3	8.3	6.9	6.8	7.3	7.2	7.9	15.8	
15	4.4	3.0	1.9	2.3	3.0	3.5	4.1	4.2	3.6	2.7	3.0	1.6	1.7	1.2	3.2	2.3	3.2	3.7	4.8	2.9	3.9	10.3	8.7	5.8	3.7	10.3	
16	1.3	1.3	1.7	2.7	1.6	1.3	1.1	1.6	3.5	3.3	3.3	1.8	1.4	0.9	0.7	0.7	1.0	2.3	1.4	1.1	1.1	1.1	1.0	0.8	1.6	3.5	
17	1.0	0.8	0.8	0.7	0.7	0.7	0.8	2.4	1.3	2.0	2.0	4.2	1.6	0.5	1.1	1.4	1.4	1.2	1.2	1.1	1.3	1.1	2.2	1.5	1.4	4.2	
18	1.2	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.9	0.9	1.0	0.6	0.6	0.5	0.4	0.4	0.5	0.4	0.5	0.7	0.6	0.7	0.6	0.5	0.7	1.2	
19	0.4	0.4	0.6	1.5	1.9	0.8	0.6	0.5	0.7	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.4	0.6	0.7	4.6	6.6	4.5	12.3	9.8	2.1	12.3	
20	10.0	3.7	11.3	9.0	9.0	0.4	1.8	6.6	6.7	7.6	9.6	12.0	12.8	9.1	6.9	8.7	12.0	12.1	12.0	9.9	10.7	11.9	12.5	23.6	9.6	23.6	
21	16.7	6.7	4.7	6.1	4.0	1.6	8.1	12.7	9.4	5.6	5.7	8.0	5.5	4.6	5.5	8.1	6.7	7.4	9.7	12.7	6.9	6.6	8.8	8.5	7.5	16.7	
22	11.6	8.2	7.1	7.1	6.7	7.4	6.1	12.5	10.0	6.5	6.8	6.6	6.0	7.6	12.3	11.2	9.7	8.4	7.2	4.3	4.8	4.9	5.0	5.2	7.6	12.5	
23	5.6	7.5	7.6	9.3	10.7	10.8	10.2	7.1	6.5	6.3	6.6	7.0	5.8	6.3	6.6	6.6	5.8	5.8	7.8	8.5	12.0	8.5	5.9	5.0	7.5	12.0	
24	6.3	6.7	6.6	5.7	6.3	6.2	6.2	6.8	6.8	9.2	6.4	3.8	5.7	4.5	3.2	2.1	2.0	3.8	5.8	4.3	3.2	2.2	2.6	2.0	4.9	9.2	
25	3.7	3.3	1.7	1.9	1.8	1.9	2.3	2.7	3.8	3.3	5.3	6.1	9.7	10.1	3.7	4.9	6.5	7.0	5.5	2.3	1.5	1.4	1.2	1.0	3.9	10.1	
26	1.1	1.2	1.2	1.7	2.3	1.8	1.2	0.9	1.0	1.3	1.9	1.3	0.6	0.5	0.4	1.3	2.1	0.6	3.6	0.6	0.6	0.6	0.9	0.7	1.2	3.6	
27	0.6	0.6	0.7	1.5	1.4	0.9	0.6	0.6	0.7	1.3	1.5	0.6	0.4	0.3	0.3	0.5	0.8	0.8	0.8	2.3	4.4	6.4	3.9	2.6	1.4	6.4	
28	3.5	3.0	2.4	2.2	2.3	2.2	2.1	2.5	2.3	3.2	2.6	10.5	8.6	11.5	16.5	17.6	16.7	18.3	21.1	23.3	22.6	31.0	35.8	28.7	12.1	35.8	
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	28	672	100%
MEAN	3.3	2.7	2.8	3.0	2.7	2.0	2.7	3.8	3.1	3.4	3.4	3.5	3.2	3.4	3.7	3.6	3.5	3.5	3.9	3.7	3.9	4.2	5.0	4.6			
MAX	16.7	9.6	11.4	12.0	10.7	10.8	12.0	15.7	10.1	10.4	12.4	12.0	12.8	11.7	16.5	17.6	16.7	18.3	21.1	23.3	22.6	31.0	35.8	28.7			



West PM₁₀ (µg/m³) – February 2023

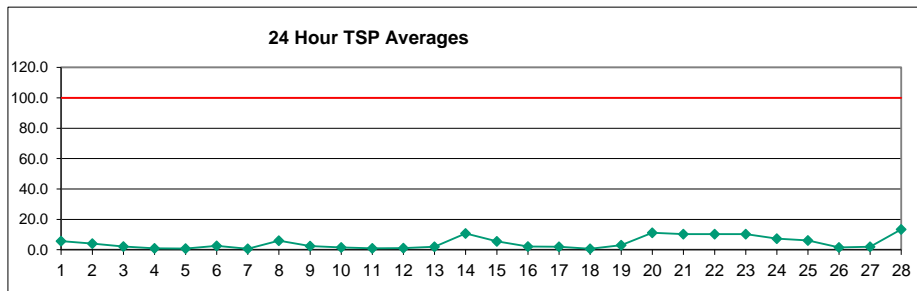
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.0	2.6	2.7	1.8	1.5	1.5	1.5	1.5	1.5	1.8	2.0	2.6	3.6	14.7	16.1	13.8	12.1	10.2	7.6	7.4	9.0	10.0	11.7	14.0	6.4	16.1
2	12.1	12.1	14.5	13.5	2.8	1.3	1.3	1.3	1.3	1.5	1.8	3.2	3.4	2.9	2.9	2.6	2.7	2.7	2.3	2.4	2.8	2.1	2.4	2.3	4.1	14.5
3	2.3	2.5	2.1	2.4	4.0	2.8	3.0	4.0	2.5	2.5	2.0	1.8	2.0	2.0	2.1	1.3	1.4	1.3	1.6	1.9	2.3	2.1	1.6	1.4	2.2	4.0
4	1.1	1.2	1.9	1.7	1.0	0.7	0.7	1.0	1.3	2.7	2.0	1.2	0.6	0.8	0.4	0.4	0.5	0.7	0.9	0.7	1.0	0.8	0.7	0.6	1.0	2.7
5	1.0	0.4	0.6	0.3	0.4	0.5	0.8	0.8	0.8	0.7	0.9	1.1	2.0	0.9	0.7	1.4	1.3	0.8	0.7	0.5	0.5	1.0	2.4	0.3	0.9	2.4
6	0.4	0.3	0.4	0.8	1.3	0.8	1.0	0.9	1.4	2.1	3.2	2.3	2.1	7.8	4.7	5.8	2.0	1.8	3.6	0.7	1.0	1.4	9.6	2.7	2.4	9.6
7	1.2	1.0	1.2	0.5	0.5	0.3	0.5	0.6	1.5	1.5	4.0	0.3	0.2	0.2	0.4	0.3	0.2	0.2	0.6	0.6	0.6	0.4	0.5	0.6	0.8	4.0
8	0.7	0.5	0.7	0.8	0.6	0.6	17.4	22.8	14.9	14.9	18.4	14.0	10.5	4.9	0.9	0.8	1.6	1.9	1.2	1.3	1.9	2.0	1.3	0.9	5.6	22.8
9	0.8	1.0	0.7	1.1	1.7	0.9	3.1	14.9	3.0	2.1	3.0	4.9	3.4	2.6	2.9	2.3	1.8	1.4	1.3	1.2	1.2	1.2	1.2	1.1	2.4	14.9
10	1.1	1.2	1.3	2.0	1.3	1.2	1.3	1.7	0.8	1.1	7.3	1.9	1.3	1.1	0.9	1.1	1.1	0.9	1.2	1.6	3.4	1.7	0.8	0.5	1.6	7.3
11	0.5	0.6	0.6	0.6	0.7	0.5	0.7	0.9	1.0	1.1	0.8	1.0	1.1	1.2	1.4	1.9	1.9	1.5	0.7	0.7	0.9	1.0	1.0	1.0	1.0	1.9
12	1.7	0.8	1.1	1.0	1.6	1.4	2.5	1.1	0.9	1.8	1.2	1.7	0.7	2.3	2.0	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.7	0.6	1.1	2.5
13	0.6	0.4	0.3	0.3	0.3	0.9	1.0	0.6	1.2	11.6	1.0	1.6	1.0	0.6	0.4	0.4	0.4	0.6	1.1	1.0	3.6	3.3	9.5	7.4	2.0	11.6
14	7.0	12.6	11.2	17.4	12.5	7.6	6.8	11.2	10.6	11.5	8.5	9.6	7.8	6.7	19.9	14.9	12.0	9.6	11.7	10.6	9.8	9.2	9.9	8.2	10.7	19.9
15	5.0	3.4	2.2	2.8	3.9	4.9	5.9	6.1	5.3	4.0	4.4	2.3	2.5	1.8	4.8	3.5	4.8	5.6	7.2	4.2	5.8	15.4	13.0	8.7	5.3	15.4
16	1.8	1.8	2.3	3.9	2.2	1.7	1.4	2.1	5.1	4.8	4.8	2.5	1.9	1.2	0.9	0.8	1.3	3.3	1.9	1.4	1.3	1.3	1.2	1.0	2.2	5.1
17	1.2	1.0	0.9	0.8	0.8	0.8	0.9	3.5	1.8	3.0	3.0	6.3	2.3	0.6	1.5	2.1	1.9	1.7	1.7	1.5	1.8	1.6	3.3	2.2	1.9	6.3
18	1.6	1.0	1.1	1.0	0.9	0.8	0.8	0.9	1.1	1.2	1.3	0.7	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.9	0.7	0.8	0.8	0.6	0.9	1.6
19	0.5	0.5	0.8	2.1	2.8	1.1	0.8	0.7	0.9	1.0	1.0	0.9	0.7	0.7	0.6	0.7	0.5	0.8	0.9	6.8	9.8	6.5	18.3	14.1	3.1	18.3
20	14.7	5.2	16.8	13.2	13.2	0.5	2.4	9.5	9.9	11.1	14.3	17.9	18.8	12.9	8.0	10.1	12.9	13.2	12.8	10.6	11.4	12.5	13.8	32.2	12.4	32.2
21	23.0	8.4	6.0	8.3	5.5	1.9	12.1	18.9	13.9	8.4	8.5	11.7	8.0	6.7	7.9	11.8	9.8	11.1	14.0	18.4	10.1	9.7	13.0	12.6	10.8	23.0
22	17.0	11.7	9.1	9.0	9.0	10.1	7.5	14.3	11.8	7.9	8.8	9.1	8.4	10.5	18.0	15.7	12.7	11.2	10.0	5.3	6.2	6.2	6.0	6.1	10.1	18.0
23	7.2	9.3	9.5	11.4	13.2	13.3	12.5	9.4	8.9	8.8	8.7	9.0	7.9	7.9	8.5	9.0	7.5	7.6	9.9	10.7	14.7	11.0	8.5	6.9	9.6	14.7
24	8.7	8.3	9.0	7.9	8.4	8.3	8.2	9.2	9.8	13.5	9.3	5.2	8.3	6.5	4.6	2.8	2.7	5.6	8.6	6.3	4.5	3.0	3.6	2.6	6.9	13.5
25	5.4	4.6	2.1	2.4	2.2	2.3	3.2	3.8	5.5	4.7	7.9	9.1	14.5	15.1	5.5	7.2	9.7	10.4	8.2	3.2	1.9	1.8	1.4	1.2	5.6	15.1
26	1.3	1.6	1.5	2.4	3.3	2.6	1.6	1.2	1.2	1.8	2.7	1.8	0.7	0.6	0.5	1.8	3.0	0.8	5.2	0.8	0.8	0.7	1.2	0.9	1.7	5.2
27	0.7	0.7	0.8	1.9	1.8	1.1	0.8	0.8	1.0	1.9	2.1	0.8	0.4	0.4	0.4	0.6	1.1	1.1	1.0	3.4	6.6	9.5	5.8	3.7	2.0	9.5
28	4.8	3.9	3.0	2.7	2.8	2.7	2.6	3.1	2.7	4.5	3.6	15.0	11.3	14.8	22.3	22.8	19.7	21.8	24.6	27.1	26.1	38.4	47.1	36.6	15.2	47.1
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	4.5	3.5	3.7	4.1	3.6	2.6	3.7	5.3	4.3	4.8	4.9	5.0	4.5	4.6	5.0	4.9	4.6	4.6	5.1	4.7	5.0	5.5	6.8	6.1		
MAX	23.0	12.6	16.8	17.4	13.2	13.3	17.4	22.8	14.9	14.9	18.4	17.9	18.8	15.1	22.3	22.8	19.7	21.8	24.6	27.1	26.1	38.4	47.1	36.6		



Number of Non-Zero Readings		672	
Maximum 1-HR Average		47.1 UG/M3	
Maximum 24-HR Average		15.2 UG/M3	
IZS Calibration Time			
Down Time	0	OperatioEI Time	672 HRS
Standard Deviation	5.6	OperatioEI Uptime	100.0 %
		Monthly Average	4.6 UG/M3

West TSP (μg/m³) – February 2023

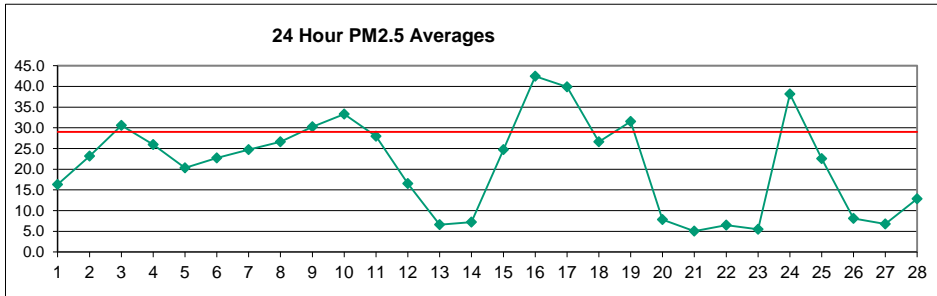
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	1.6	2.5	2.6	1.6	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.9	3.0	16.5	17.1	14.1	10.2	9.5	6.3	5.1	6.2	8.1	9.1	13.8	5.7	17.1	
2	12.6	13.3	15.6	12.0	2.4	0.9	0.9	1.0	0.9	1.1	1.3	3.0	3.4	3.0	3.0	2.7	2.8	2.9	2.3	2.4	2.9	2.1	2.5	2.2	4.0	15.6	
3	2.4	2.6	2.2	2.5	4.5	3.0	3.3	4.4	2.6	2.3	1.8	1.6	1.8	1.7	2.0	1.0	1.0	0.9	1.2	1.5	2.0	1.7	1.1	1.0	2.1	4.5	
4	0.8	1.0	1.9	1.7	0.9	0.5	0.5	1.0	1.3	2.9	2.1	1.1	0.5	0.7	0.4	0.3	0.4	0.6	0.8	0.5	0.9	0.7	0.6	0.5	0.9	2.9	
5	1.0	0.3	0.5	0.2	0.2	0.4	0.6	0.6	0.6	0.5	0.7	0.9	1.7	0.8	0.6	1.5	1.3	0.7	0.6	0.4	0.3	1.0	2.6	0.2	0.8	2.6	
6	0.3	0.2	0.3	0.7	1.3	0.6	0.9	0.7	1.3	2.1	3.3	2.3	2.1	8.9	5.4	6.6	2.1	1.8	4.0	0.6	0.9	1.3	11.1	3.0	2.6	11.1	
7	1.2	1.0	1.2	0.5	0.4	0.3	0.4	0.5	1.5	1.4	4.4	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.5	0.4	0.4	0.3	0.3	0.4	0.7	4.4	
8	0.5	0.4	0.5	0.7	0.5	0.5	20.2	26.3	15.9	15.6	20.9	15.2	10.8	5.1	0.8	0.7	1.6	1.9	1.0	1.1	1.7	1.7	1.0	0.7	6.1	26.3	
9	0.6	0.9	0.6	1.1	1.6	0.7	3.3	17.3	3.3	2.1	3.2	5.5	3.5	2.5	2.8	1.7	1.5	1.0	1.0	0.9	0.9	0.8	0.9	0.7	2.4	17.3	
10	0.7	0.9	1.1	1.9	1.0	1.0	1.1	1.5	0.6	1.0	8.3	2.0	1.2	1.0	0.8	1.0	0.8	0.8	1.0	1.5	3.6	1.7	0.7	0.4	1.5	8.3	
11	0.4	0.5	0.5	0.5	0.6	0.4	0.6	0.8	0.9	1.1	0.7	0.9	1.0	1.2	1.4	1.9	2.0	1.5	0.6	0.6	0.8	0.9	0.9	1.8	0.9	2.0	
12	1.8	0.6	1.0	0.9	1.7	1.3	2.7	1.0	0.7	1.8	1.0	1.6	0.6	2.5	2.1	0.6	0.5	0.5	0.4	0.3	0.4	0.4	0.5	0.5	1.1	2.7	
13	0.5	0.3	0.2	0.2	0.2	0.8	0.9	0.4	1.1	13.1	0.7	1.2	0.8	0.5	0.3	0.3	0.3	0.5	0.9	0.8	3.7	3.3	9.8	7.9	2.0	13.1	
14	7.6	14.5	12.9	18.9	13.2	6.8	5.9	11.6	10.7	12.5	7.8	8.5	6.3	5.5	22.1	16.3	13.5	10.0	12.4	10.9	9.1	6.8	7.1	5.3	10.7	22.1	
15	3.2	2.3	1.6	2.1	3.2	4.4	5.7	6.2	5.6	4.3	4.8	2.3	2.4	1.8	5.5	4.0	5.5	6.4	8.3	4.8	6.6	17.9	15.1	10.0	5.6	17.9	
16	1.7	1.7	2.3	4.2	2.2	1.5	1.2	2.1	5.6	5.3	5.4	2.5	1.7	1.0	0.6	0.6	1.0	3.6	1.8	1.2	1.1	1.0	1.0	0.7	2.1	5.6	
17	0.8	0.7	0.6	0.5	0.6	0.5	0.7	3.7	1.7	3.1	3.3	7.2	2.4	0.5	1.6	2.1	1.9	1.7	1.7	1.5	1.9	1.6	3.6	2.3	1.9	7.2	
18	1.5	0.8	0.9	0.8	0.7	0.6	0.6	0.7	0.8	0.9	1.1	0.5	0.5	0.4	0.4	0.4	0.6	0.5	0.5	0.7	0.5	0.6	0.6	0.4	0.7	1.5	
19	0.4	0.3	0.7	2.3	3.0	1.0	0.7	0.5	0.8	0.9	0.9	0.9	0.7	0.5	0.5	0.6	0.4	0.7	0.8	7.2	9.8	5.7	19.5	14.5	3.0	19.5	
20	15.3	5.2	18.2	13.7	12.9	0.3	2.0	8.8	9.3	11.1	14.9	19.9	21.5	13.4	5.9	7.7	9.5	10.3	9.6	8.2	8.9	9.2	11.3	21.7	11.2	21.7	
21	16.3	5.6	4.0	6.6	3.9	1.3	10.9	18.4	12.7	7.5	8.8	11.7	8.2	6.5	7.9	11.9	9.8	11.8	15.1	21.0	10.6	9.0	13.5	13.0	10.3	21.0	
22	19.3	12.8	8.8	8.6	8.9	10.6	6.5	11.6	10.2	7.6	9.7	9.5	8.5	11.3	20.5	18.1	14.8	13.0	11.1	4.5	5.6	5.6	5.0	5.0	10.3	20.5	
23	6.2	10.4	10.6	13.2	15.3	15.4	14.5	10.7	9.8	9.2	9.0	9.9	7.5	7.2	8.2	9.0	6.7	6.8	11.0	12.4	17.1	12.4	9.1	6.6	10.3	17.1	
24	8.6	9.3	9.0	7.9	7.4	8.1	8.7	10.2	11.2	15.7	10.6	5.6	9.4	7.3	4.9	2.7	2.6	6.2	9.9	7.1	4.8	2.9	3.8	2.4	7.3	15.7	
25	5.7	4.9	1.7	2.1	1.9	1.9	3.1	3.9	6.1	5.0	9.0	10.5	16.8	17.6	6.3	8.2	11.2	12.1	9.6	3.1	1.7	1.5	1.1	0.9	6.1	17.6	
26	1.0	1.3	1.1	2.2	3.3	2.7	1.4	1.0	1.0	1.6	2.7	1.6	0.5	0.4	0.3	1.7	3.1	0.7	5.7	0.6	0.7	0.6	1.0	0.7	1.5	5.7	
27	0.5	0.6	0.6	1.6	1.6	0.9	0.5	0.5	0.8	2.0	2.3	0.7	0.3	0.3	0.2	0.5	1.1	1.0	0.8	3.5	7.4	10.8	5.9	3.2	2.0	10.8	
28	3.7	2.8	2.0	1.9	1.9	1.9	1.8	2.3	1.8	3.5	2.7	13.2	12.7	15.9	20.2	20.9	17.3	18.4	23.7	20.7	19.3	40.2	46.1	27.8	13.5	46.1	
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	4.2	3.5	3.7	4.0	3.4	2.5	3.6	5.3	4.3	4.9	5.1	5.1	4.6	4.8	5.1	4.9	4.4	4.5	5.1	4.4	4.6	5.4	6.6	5.3			
MAX	19.3	14.5	18.2	18.9	15.3	15.4	20.2	26.3	15.9	15.7	20.9	19.9	21.5	17.6	22.1	20.9	17.3	18.4	23.7	21.0	19.3	40.2	46.1	27.8			



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	672	
Maximum 1-HR Average	46.1 UG/M3	
Maximum 24-HR Average	13.5 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	5.665	Monthly Average
		672 HRS
		100.0 %
		4.5 UG/M3

Berm PM_{2.5} (µg/m³) – February 2023

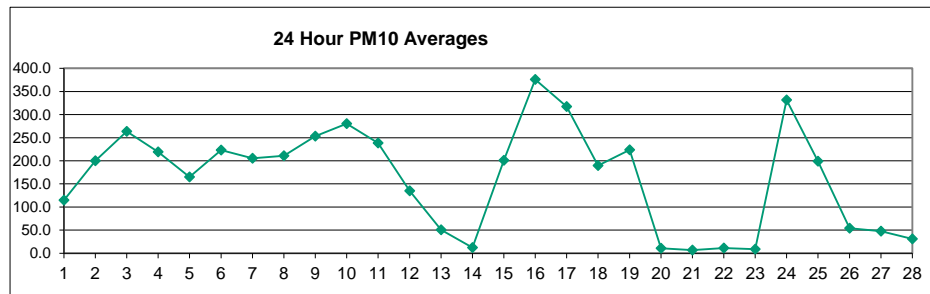
DAY	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	17.0	11.1	12.4	6.5	19.6	31.8	48.9	28.3	12.6	12.1	27.4	25.1	11.7	8.4	12.4	13.3	14.6	18.6	16.4	7.3	9.3	6.8	10.2	9.6	16.3	48.9	
2	9.3	10.2	9.6	4.0	3.9	11.2	15.1	8.2	5.1	2.5	3.0	13.0	26.4	39.9	33.4	48.1	28.0	34.0	41.4	45.0	43.8	26.6	45.2	48.8	23.2	48.8	
3	34.8	45.4	31.1	15.4	32.4	27.3	61.1	67.2	34.2	37.2	40.0	29.9	18.4	22.1	15.3	12.6	37.1	10.6	30.6	35.5	30.3	16.0	28.8	21.0	30.6	67.2	
4	18.6	28.9	33.0	24.4	9.1	6.4	3.4	5.4	18.5	59.7	76.7	50.3	21.7	42.6	29.2	13.2	18.5	24.7	38.9	28.9	12.5	25.7	24.2	9.1	26.0	76.7	
5	13.9	9.4	5.7	0.7	0.7	0.6	1.1	1.2	9.4	9.5	6.9	22.4	32.7	24.9	65.0	73.2	38.6	48.6	45.5	13.0	4.4	14.3	21.7	24.7	20.3	73.2	
6	26.4	8.1	2.9	9.0	12.1	5.4	4.5	7.8	8.0	20.0	45.0	47.7	44.5	47.9	66.1	55.9	27.5	20.3	18.7	9.8	5.2	7.2	27.3	18.4	22.7	66.1	
7	15.8	14.2	18.2	14.4	11.9	11.1	37.4	49.4	24.4	18.0	29.7	37.7	24.5	33.2	19.1	26.5	35.2	21.7	24.0	25.4	22.9	13.9	26.5	39.0	24.7	49.4	
8	18.2	14.6	15.5	34.6	10.7	10.1	2.9	27.9	3.9	1.8	1.4	1.0	1.3	26.1	47.6	52.3	73.2	51.0	47.8	59.4	46.7	21.6	43.3	26.3	26.6	73.2	
9	7.0	29.2	17.5	15.9	26.7	16.6	30.6	145.2	28.8	27.5	48.4	93.9	36.1	33.5	21.2	29.2	27.3	21.4	17.2	16.4	20.5	4.1	6.7	4.6	30.2	145.2	
10	1.2	1.4	10.6	19.3	8.4	13.8	21.9	27.2	23.3	38.4	207.2	82.5	35.2	48.5	25.6	14.6	17.8	6.1	44.1	66.7	22.9	19.7	17.9		33.3	207.2	
11	13.1	8.4	6.8	7.7	7.5	3.2	6.6	22.3	12.7	33.2	50.1	41.7	31.4	59.6	58.8	86.1	74.8	57.3	28.3	23.3	7.0	7.2	10.7	13.2	28.0	86.1	
12	6.0	35.6	68.5	60.1	19.9	9.1	9.0	11.6	9.6	12.4	19.8	13.9	13.0	45.2	37.2	7.5	3.5	4.5	2.8	1.8	1.3	0.7	1.1	3.4	16.5	68.5	
13	1.2	0.5	0.6	6.5	4.2	4.3	6.4	2.5	3.7	18.0	3.4	10.6	20.6	15.4	14.6	5.8	4.3	3.0	4.2	1.2	0.8	20.2	5.9	1.3	6.6	20.6	
14	0.7	40.0	9.5	4.3	11.9	9.2	2.0	1.7	1.6	11.1	5.2	8.0	4.9	12.0	12.8	7.4	7.9	2.9	3.1	2.4	3.2	2.3	3.6	5.0	7.2	40.0	
15	3.3	2.0	1.6	1.5	1.8	1.7	1.9	2.8	3.4	4.6	7.4	36.3	18.3	32.6	35.6	49.1	43.4	29.8	57.3	50.0	40.4	38.6	76.0	54.5	24.7	76.0	
16	17.4	17.0	38.0	31.3	33.9	49.6	50.4	48.4	73.7	70.6	80.2	50.8	63.2	49.0	38.6	40.7	54.1	53.3	34.1	29.5	29.3	16.0	21.0	29.5	42.5	80.2	
17	9.7	11.1	9.0	23.0	11.3	5.2	17.9	47.4	18.7	59.7	107.7	93.0	46.5	29.9	43.7	48.7	21.4	26.3	60.4	49.6	53.7	34.8	59.1	69.3	39.9	107.7	
18	21.2	10.6	30.3	17.6	10.8	6.9	10.4	6.1	7.4	40.2	25.2	44.6	24.1	30.3	51.7	27.2	40.5	38.6	33.8	53.4	43.6	53.3	7.6	3.6	26.6	53.4	
19	2.7	8.3	74.9	53.6	47.1	21.2	13.2	28.9	69.3	50.5	31.8	67.4	49.0	33.1	47.3	47.5	31.5	14.0	28.7	6.6	10.7	3.4	9.9	6.1	31.5	74.9	
20	13.5	25.6	1.8	3.0	1.1	0.2	0.4	1.5	0.9	1.0	0.8	0.6	1.2	2.5	8.7	7.8	13.7	17.0	18.5	15.4	18.3	14.6	12.4	8.2	7.9	25.6	
21	6.8	5.3	3.0	3.4	1.8	1.4	1.3	0.9	1.2	2.4	2.6	2.5	3.0	4.1	6.3	23.9	5.9	7.5	6.4	7.4	4.7	5.4	7.0	6.6	5.0	23.9	
22	6.8	11.5	5.7	6.8	8.8	6.8	8.6	8.2	11.1	8.2	6.6	5.1	4.5	4.3	3.2	4.3	5.7	6.6	5.6	4.7	6.2	6.5	5.1	4.7	6.5	11.5	
23	5.0	6.5	7.2	5.5	6.6	6.2	5.4	4.9	5.1	4.9	5.5	6.2	4.9	5.1	5.1	3.4	4.1	4.5	7.6	5.5	5.4	4.7	7.2	5.1	5.5	7.6	
24	4.1	10.6	13.7	10.5	5.5	7.1	11.6	16.9	41.9	65.9	103.3	69.2	48.2	70.6	59.1	44.0	39.0	32.0	55.7	43.0	38.9	36.5	52.9	35.6	38.2	103.3	
25	42.2	15.6	11.3	9.1	8.9	7.5	8.9	11.7	14.9	18.1	16.7	42.2	28.7	63.5	43.2	32.3	50.7	45.7	28.2	18.5	12.2	3.6	4.1	3.4	22.5	63.5	
26	1.9	3.5	1.8	3.2	4.4	2.5	1.5	0.9	0.9	1.1	2.8	18.7	15.1	9.0	19.0	12.8	13.4	5.8	19.2	6.6	9.2	21.3	13.1	6.6	8.1	21.3	
27	12.0	16.6	5.0	0.6	0.5	0.8	0.8	0.5	1.4	3.4	6.9	17.3	16.6	18.5	23.0	14.9	13.7	5.6	2.1	0.4	0.4	0.3	0.5	1.4	6.8	23.0	
28	2.2	1.4	2.8	6.4	13.1	2.8	12.9	8.8	5.1	4.2	16.8	13.6	5.1	8.3	13.2	21.4	23.2	22.5	26.7	21.1	20.2	20.8	19.5	16.3	12.8	26.7	
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	11.8	14.4	16.0	14.2	12.0	10.0	14.1	21.2	16.1	22.7	34.9	33.7	23.2	29.3	30.6	29.8	27.3	23.0	25.3	22.3	20.3	16.0	20.4	17.6			
MAX	42.2	45.4	74.9	60.1	47.1	49.6	61.1	145.2	73.7	70.6	207.2	93.9	63.2	70.6	66.1	86.1	74.8	57.3	60.4	59.4	66.7	53.3	76.0	69.3			



Number of 24HR Exceedences	7	Proposed Guideline
Number of Non-Zero Readings	672	
Maximum 1-HR Average	207.2 UG/M3	
Maximum 24-HR Average	42.5 UG/M3	
Operational Time	672 HRS	
Monthly Calibration	0	Operational Uptime
Standard Deviation	21.2	Monthly Average
		100.0 %
		21.1 UG/M3

Berm PM₁₀ (µg/m³) – February 2023

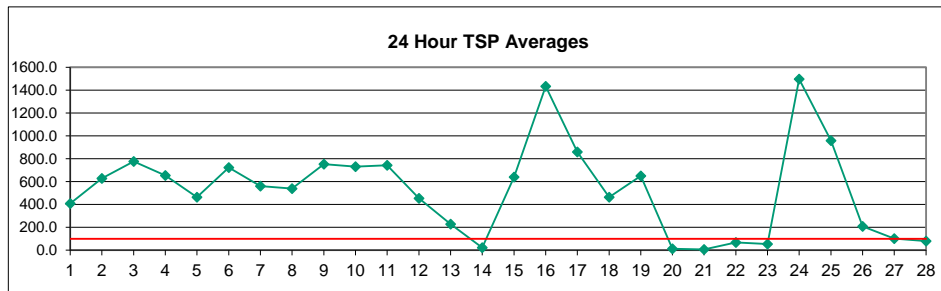
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	172.4	91.9	109.3	52.5	183.5	294.8	550.6	303.9	105.8	120.0	257.7	236.0	72.1	22.7	31.5	19.1	21.4	27.1	23.2	8.8	12.6	8.4	14.7	13.4	114.7	550.6
2	12.8	14.4	14.0	5.1	20.7	100.9	143.7	87.8	36.6	12.8	20.8	114.0	226.7	364.7	331.0	458.7	266.8	339.3	359.5	412.9	395.3	227.2	390.7	443.3	200.0	458.7
3	308.4	417.9	301.3	141.9	339.1	252.6	553.6	634.1	309.7	302.2	325.4	251.3	156.7	171.7	117.9	102.4	213.6	90.0	214.8	297.1	267.8	138.0	239.3	180.1	263.6	634.1
4	133.8	231.0	264.8	253.4	81.4	44.5	26.2	51.1	198.7	550.0	664.5	447.2	193.1	345.9	254.1	98.7	149.7	215.4	323.9	234.6	92.2	171.3	174.3	64.3	219.3	664.5
5	121.8	77.1	34.7	2.3	1.6	1.9	4.3	4.8	81.4	93.3	64.5	187.4	271.8	189.1	516.9	587.5	329.6	428.3	369.9	87.0	26.8	153.1	168.0	160.9	165.2	587.5
6	171.5	57.7	17.7	82.5	108.7	46.7	34.2	66.5	67.2	176.4	424.4	452.0	445.3	496.7	724.2	606.2	299.0	220.0	192.8	86.9	45.9	67.1	285.2	176.9	223.0	724.2
7	132.0	126.9	151.0	126.8	92.8	89.3	329.3	438.8	202.3	141.6	248.6	290.9	169.7	281.2	156.4	200.4	304.7	170.1	204.7	202.9	193.3	122.0	228.4	327.4	205.5	438.8
8	145.3	98.4	109.7	257.8	67.0	62.6	14.3	70.5	5.5	2.5	1.9	1.4	2.9	264.4	439.8	470.9	617.2	466.3	389.0	474.8	380.2	163.2	337.2	217.9	210.9	617.2
9	42.3	236.7	143.3	135.5	226.1	134.8	248.6	1313.7	258.9	209.5	421.4	818.0	300.3	255.9	169.7	237.7	229.3	143.9	136.2	123.4	186.6	27.4	47.9	31.6	253.3	1313.7
10	2.8	6.4	74.6	158.5	72.9	113.2	187.0	214.9	190.1	303.8	1796.2	664.1	299.4	420.2	181.6	188.0	111.4	132.1	33.2	411.2	672.0	238.6	139.7	110.2	280.1	1796.2
11	83.4	72.5	54.4	61.8	57.4	17.6	33.9	134.0	87.3	265.3	410.3	317.3	243.4	486.2	547.7	717.3	778.4	525.3	252.1	211.5	48.7	79.4	104.5	135.5	238.6	778.4
12	50.3	221.1	507.3	395.6	153.0	70.9	83.4	107.4	83.6	109.0	163.9	116.9	119.6	441.1	413.4	74.7	27.9	35.4	18.2	10.6	4.7	1.4	5.0	23.0	134.9	507.3
13	5.4	2.1	1.8	27.7	17.8	22.9	67.1	12.5	30.0	28.9	24.9	103.6	220.3	186.0	175.2	52.7	37.3	25.7	36.0	9.0	1.6	112.7	14.4	1.7	50.7	220.3
14	0.9	60.1	14.1	6.2	17.5	13.4	2.4	2.2	2.1	16.3	7.4	11.9	8.5	37.9	39.6	20.0	13.0	3.2	3.7	2.4	3.4	2.4	4.1	5.7	12.4	60.1
15	4.9	3.5	2.4	2.1	4.2	2.9	4.8	15.6	21.4	36.8	61.4	367.5	159.6	268.6	307.4	411.8	355.6	239.8	447.7	415.2	313.0	309.0	608.9	458.9	201.0	608.9
16	139.9	132.9	257.3	263.6	258.7	452.7	407.2	414.2	680.0	642.3	719.6	459.7	579.4	439.4	380.9	382.0	525.5	582.0	332.5	238.4	222.9	119.4	144.6	243.5	375.8	719.6
17	54.1	64.3	48.0	135.6	73.1	36.5	136.9	510.3	161.1	461.2	832.4	719.5	383.5	238.2	316.8	363.8	174.3	216.9	496.0	393.0	455.8	290.7	492.3	558.7	317.2	832.4
18	156.3	59.6	187.9	97.5	61.6	34.6	67.2	39.3	50.7	291.8	186.8	306.2	161.2	214.1	369.9	197.1	320.6	330.8	232.6	404.5	327.8	399.9	40.2	16.0	189.7	404.5
19	17.2	52.7	503.0	416.2	375.7	153.9	92.3	187.6	520.6	373.4	235.4	471.1	374.3	263.3	337.2	369.7	232.0	94.8	207.2	42.7	15.9	5.0	14.8	8.8	223.5	520.6
20	20.0	38.1	2.5	4.4	1.4	0.2	0.4	1.6	1.0	1.1	1.2	1.9	2.9	5.1	11.3	9.7	18.0	23.0	25.6	21.1	25.5	19.0	15.0	8.5	10.8	38.1
21	7.3	5.9	3.3	3.9	2.2	1.7	1.6	1.2	1.5	3.3	3.6	3.4	4.2	5.3	8.8	35.5	8.2	10.7	9.0	10.5	6.2	7.5	10.0	9.3	6.8	35.5
22	9.6	16.5	6.7	8.6	12.4	9.5	12.2	11.2	15.6	11.1	8.8	6.4	5.5	10.7	6.5	11.8	25.7	31.4	19.9	6.0	8.4	8.6	6.2	5.6	11.4	31.4
23	6.3	9.0	10.1	6.9	8.9	8.4	6.8	6.0	6.3	6.2	7.2	8.0	6.1	11.1	22.0	4.4	5.5	8.2	28.6	7.9	7.5	6.3	10.1	7.0	9.0	28.6
24	5.2	15.6	19.5	15.3	7.3	10.1	17.1	25.1	287.6	650.2	1111.9	761.6	497.7	724.3	545.2	388.1	326.6	289.0	508.3	382.5	334.9	296.3	465.6	269.0	331.4	1111.9
25	364.3	156.3	87.2	65.0	68.6	51.9	70.1	95.7	136.0	172.0	147.9	358.8	292.8	619.0	407.4	304.5	445.8	405.5	241.0	140.2	75.8	22.9	25.1	19.5	198.9	619.0
26	5.8	23.8	7.1	17.0	28.1	12.9	5.7	2.6	1.7	2.2	11.8	126.7	111.0	62.9	125.6	104.2	104.7	40.2	152.6	34.2	62.5	134.9	82.1	36.9	54.0	152.6
27	83.8	122.7	31.0	1.4	1.0	2.3	2.2	1.2	10.0	33.0	56.6	143.2	112.9	123.0	140.8	100.7	119.3	44.3	14.7	1.5	0.6	0.4	1.1	3.1	47.9	143.2
28	5.0	2.7	11.9	32.0	82.1	9.9	74.6	39.5	7.5	20.8	124.5	37.1	12.9	13.0	20.4	50.1	30.9	29.6	34.6	24.2	22.7	24.3	20.1	16.7	31.1	124.5
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	80.8	86.3	106.3	99.2	86.6	73.3	113.5	171.2	127.2	179.9	297.9	278.0	194.1	248.6	253.5	234.6	217.6	184.6	189.6	167.7	150.4	112.7	146.0	126.9		
MAX	364.3	417.9	507.3	416.2	375.7	452.7	553.6	1313.7	680.0	650.2	1796.2	818.0	579.4	724.3	724.2	717.3	778.4	582.0	508.3	474.8	672.0	399.9	608.9	558.7		



Number of Non-Zero Readings	672	Operational Time	672 HRS
Maximum 1-HR Average	1796.2 UG/M3	Operational Uptime	100.0 %
Maximum 24-HR Average	375.8 UG/M3	Monthly Average	163.6 UG/M3
Monthly Calibration	0		
Standard Deviation	195.9		

Berm TSP ($\mu\text{g}/\text{m}^3$) – February 2023

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	692.5	316.6	414.5	179.0	657.5	1059.0	2117.5	1205.1	399.9	488.0	895.5	752.6	185.6	108.0	206.0	19.2	20.5	27.8	23.2	6.9	11.2	6.0	14.6	12.3	409.1	2117.5
2	10.0	12.4	13.2	4.1	105.2	394.7	609.4	399.8	144.1	49.9	73.6	367.4	759.6	1099.7	1081.8	1386.0	821.7	1102.3	1043.5	1196.7	1207.0	670.6	1166.1	1377.3	629.0	1386.0
3	950.1	1220.5	904.0	477.6	1136.4	756.2	1651.4	1930.1	983.1	861.2	915.1	716.7	453.4	506.3	343.6	256.6	391.1	298.2	503.7	911.4	863.7	453.4	648.7	503.0	776.5	1930.1
4	319.8	644.3	809.1	953.6	279.4	107.1	90.4	165.6	677.3	1538.2	1963.1	1321.7	567.1	1017.8	817.4	297.0	454.4	653.4	1004.6	721.5	268.9	406.0	431.0	200.3	654.5	1963.1
5	427.6	251.1	56.4	5.2	2.2	4.3	16.8	13.7	272.2	304.2	205.1	507.0	789.0	514.0	1447.3	1706.7	975.4	1245.3	977.6	203.4	73.4	492.7	402.4	244.6	464.1	1706.7
6	289.7	122.7	46.5	251.2	362.5	132.6	101.5	183.5	207.8	515.4	1241.0	1311.6	1355.9	1757.4	2283.5	2030.1	1130.6	822.6	703.6	348.4	158.4	282.8	1071.3	660.9	723.8	2283.5
7	420.3	449.0	493.2	429.1	260.0	187.3	762.8	1037.3	489.8	339.7	546.2	723.2	420.8	752.6	419.5	501.8	827.6	490.9	630.8	659.4	629.7	404.7	660.3	954.4	562.1	1037.3
8	426.3	208.4	251.1	626.6	105.1	77.9	33.7	249.7	4.3	2.2	3.3	1.2	3.9	753.7	1197.3	1251.1	1656.3	1253.3	923.4	1116.8	933.7	442.2	817.8	590.9	538.8	1656.3
9	106.2	773.4	460.6	489.7	827.2	401.9	758.1	3413.3	873.9	589.3	1287.5	2372.5	895.2	789.2	506.0	695.8	764.4	409.4	439.0	338.8	552.5	81.9	143.7	88.0	752.4	3413.3
10	4.9	22.6	224.8	537.6	252.2	330.3	493.2	566.8	536.0	806.8	3253.8	1841.8	893.0	1213.4	464.8	409.1	262.2	315.7	64.0	1338.4	2374.7	818.0	319.1	208.0	731.3	3253.8
11	187.2	220.4	177.5	201.4	184.7	48.5	63.1	291.7	219.1	809.7	1192.3	877.3	780.1	1500.7	1676.5	2292.8	2708.2	1704.0	773.6	673.9	175.7	276.7	352.7	469.6	744.1	2708.2
12	170.1	456.5	1264.5	924.5	404.7	289.0	329.9	456.0	343.6	499.8	632.2	452.1	526.6	1689.2	1655.6	334.0	104.8	139.2	80.6	39.6	17.6	2.6	12.0	76.9	454.2	1689.2
13	22.0	8.2	7.0	41.0	24.3	119.7	469.0	31.6	90.1	42.0	111.8	454.2	950.9	797.2	759.4	176.5	117.2	70.7	77.2	22.5	1.8	1022.2	63.5	1.2	228.4	1022.2
14	1.6	72.6	16.1	6.2	16.5	9.6	1.8	1.5	1.6	17.2	7.5	12.2	8.2	75.6	64.1	163.9	40.9	2.1	2.8	1.6	2.2	1.6	2.8	3.9	22.3	163.9
15	7.3	12.2	4.3	2.4	10.4	5.8	12.3	53.7	57.4	109.3	183.5	1227.2	517.2	796.7	1070.1	1245.3	1120.4	730.2	1404.0	1251.5	891.3	1050.7	1981.6	1631.0	640.7	1981.6
16	435.7	398.2	763.9	1026.9	862.5	1724.5	1534.3	1608.2	2668.7	2728.8	2822.6	1790.1	2143.9	1570.2	1598.0	1575.9	2168.4	2617.6	1416.0	896.4	678.4	339.4	387.8	661.5	1434.1	2822.6
17	80.5	134.5	106.6	244.2	149.3	97.2	433.5	1650.8	454.2	1097.4	2116.9	1747.7	958.2	554.5	848.9	1026.7	580.0	705.9	1380.8	1067.5	1309.7	831.2	1363.3	1685.7	859.4	2116.9
18	434.5	110.1	327.7	216.7	122.8	65.8	187.4	103.8	131.5	726.0	453.4	653.3	358.1	534.6	950.1	496.0	791.0	841.4	524.7	1117.7	823.2	1058.0	71.0	18.7	463.2	1117.7
19	45.0	141.8	1248.1	1097.8	1213.7	472.1	285.1	506.1	1523.4	1241.7	711.6	1388.8	1069.8	841.0	976.4	1116.1	669.9	273.6	610.5	150.0	15.9	3.6	14.2	8.0	651.0	1523.4
20	21.2	41.1	2.0	4.5	1.2	0.1	0.3	1.1	0.7	0.8	1.0	13.0	12.4	26.3	9.8	8.4	17.7	23.5	27.3	22.1	28.2	18.4	13.6	5.5	12.5	41.1
21	4.8	3.9	2.2	2.6	1.5	1.2	1.1	0.8	1.1	2.7	3.2	2.7	3.5	4.0	8.4	40.3	8.3	11.3	9.6	10.0	5.5	7.5	10.3	9.2	6.5	40.3
22	9.6	17.8	5.3	7.8	13.3	10.1	13.2	11.6	16.8	11.4	8.6	5.2	4.3	84.2	32.4	108.4	343.7	540.4	336.2	5.4	8.7	8.5	5.4	4.7	67.2	540.4
23	5.8	9.9	11.1	6.5	9.3	9.0	6.1	5.0	5.3	5.5	6.8	7.3	4.9	139.2	435.8	14.1	22.8	61.4	468.3	14.5	7.5	6.3	10.9	7.3	53.3	468.3
24	4.5	17.8	18.7	15.3	6.9	10.8	19.6	29.0	1563.8	3494.0	3654.5	3746.0	2789.4	3501.0	2960.5	1701.3	1205.5	1515.7	2681.7	1667.7	1455.0	1062.6	1801.5	1046.4	1498.7	3746.0
25	2167.1	1032.0	382.0	294.9	318.2	233.3	325.5	486.9	829.6	1086.7	855.6	1656.9	1712.1	3000.1	1860.6	1341.9	1823.6	1635.6	959.1	529.7	191.5	80.1	99.3	101.5	958.5	3000.1
26	13.7	85.2	14.7	60.5	104.0	43.5	18.3	8.1	2.2	2.6	22.5	274.3	309.7	148.3	247.6	686.8	1091.8	88.6	904.0	259.7	153.2	265.0	145.0	56.2	208.6	1091.8
27	150.5	209.2	40.8	0.9	0.7	2.0	2.1	1.6	31.3	88.7	146.9	375.4	196.2	210.3	258.3	194.4	356.4	133.7	48.6	4.9	0.6	0.3	2.0	3.2	102.5	375.4
28	6.3	3.3	31.4	59.9	135.4	17.3	231.3	247.4	7.9	54.0	241.8	64.6	26.9	19.1	95.4	487.5	29.8	29.4	34.0	19.6	16.8	19.3	13.3	10.8	79.3	487.5
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	264.8	249.9	289.2	291.7	270.3	236.1	377.4	523.6	447.7	625.5	841.3	880.9	667.7	857.3	867.0	770.1	732.3	633.7	644.7	521.3	459.2	361.2	429.5	380.0		
MAX	2167.1	1220.5	1264.5	1097.8	1213.7	1724.5	2117.5	3413.3	2668.7	3494.0	3654.5	3746.0	2789.4	3501.0	2960.5	2292.8	2708.2	2617.6	2681.7	1667.7	2374.7	1062.6	1981.6	1685.7		



Number of 24HR Exceedences	22 Proposed Guideline
Number of Non-Zero Readings	672
Maximum 1-HR Average	3746.0 UG/M3
Maximum 24-HR Average	1498.7 UG/M3
IZS Calibration Time	Operational Time 672 HRS
Monthly Calibration	Operational Uptime 100.0 %
Standard Deviation	657.4 Monthly Average 525.9 UG/M3