

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT MAY 2025

JUNE 30, 2025





AMBIENT AIR QUALITY MONTHLY REPORT

MAY 2025

LAFARGE CANADA INC.

PROJECT NO.: CA0049359.3401
DATE: JUNE 30, 2025

WSP
SUITE 1000
840 HOWE STREET
VANCOUVER, BC, CANADA V6Z 2M1

T: +1 604 685-9381
F: +1 604 683-8655
WSP.COM



June 30, 2025

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – May 2025

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 May 2025.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	99.1%	-	5
PM _{2.5}	99.1%	1	0
PM ₁₀	99.1%	-	-
NO	99.5%	-	-
NO ₂	99.5%	0	-
NO _x	99.5%	-	-
SO ₂	99.5%	0	0
Temperature	99.3%	-	-
Wind Speed / Direction	99.3%	-	-
Pressure	99.3%	-	-
Relative Humidity	99.3%	-	-
Precipitation	99.5%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Windridge Station for May 2025.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	98.9%	-	-	8
PM_{2.5}	98.9%	0	0	-
PM₁₀	98.9%	-	-	-

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 May 2025.

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	0%	0	0	0
Berm	100%	0	0	7
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,



Amin Engarnevis, Ph.D.
Lead Air Quality Specialist,
Vancouver Region

SIGNATURES

PREPARED BY



June 27, 2025

Tuonan Li, M.Sc.
Air Quality Specialist
Vancouver Region, Environment

Date

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



June 27, 2025

Amin Engarnevis, Ph.D.
Lead Air Quality Specialist
Vancouver Region, Environment

Date

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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 May 1, 2025 and May 31, 2025.

This monthly report was prepared by Tuonan Li, Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Amin Engarnevis, Lead Air Quality Specialist at WSP.

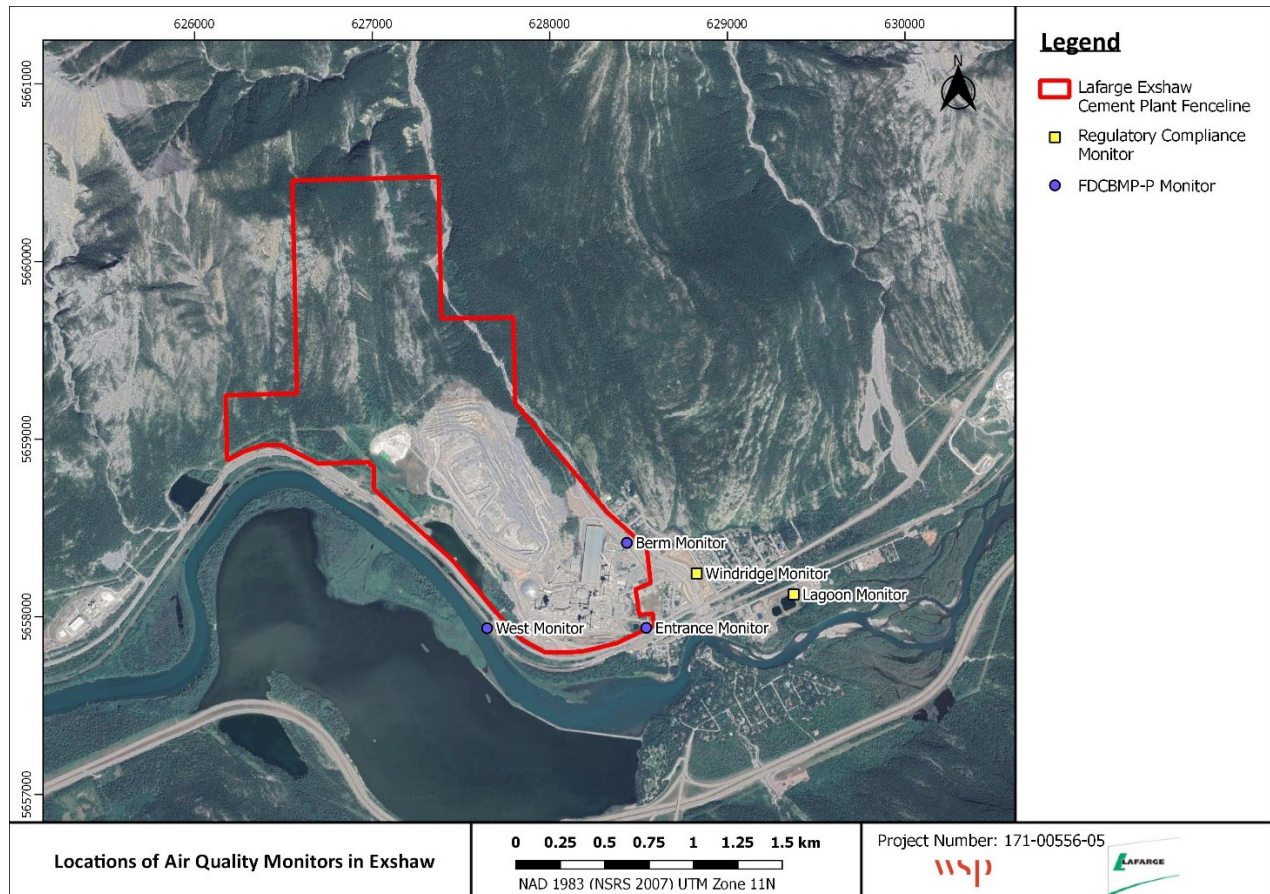


Figure 1-1 Locations of Air Quality Monitors in Exshaw

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. 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 MAY 2025 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}, if any, are those above the 1-hour PM_{2.5} Alberta Ambient Air Quality Guidelines (AAAQG).

2.1 LAGOON STATION

Table 2-1 Lagoon station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQO or AAAQG	Maximum Concentration	Exceedances of AAAQO
NO ₂ (ppb)	99.5	45.4	0	9.4	-
SO ₂ (ppb)	99.5	22.1	0	3.9	0
PM _{2.5} (µg/m ³)	99.1	90.8	1 ¹	12.9	0
PM ₁₀ (µg/m ³)	99.1	484.2	-	117.5	-
TSP (µg/m ³)	99.1	1004.0	-	224.4	5
Temperature (°C)	99.3	27.6	-	19.5	-
Wind Speed (km/hr) /Direction (Degrees)	99.3	31.6/W	-	18.1/WSW	-
Precipitation (mm)	99.5	6.5 ²	-	39.75 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 no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 5 exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station, NO₂ and SO₂ analyzers, and the precipitation gauge recorded 99.5% uptime during the month of May due to 4 hours of communication error occurring on May 5th at 9:00 – 11:00 and May 6th at 10:00 – 12:00.
- The rest of the meteorological sensors recorded 99.3% uptime during the month of May due to 5 hours of communication error occurring on May 2nd at 12:00, May 5th at 9:00 – 11:00 and May 6th at 10:00 – 12:00.
- The TSP, PM₁₀ and PM_{2.5} analyzer recorded 99.1% uptime during the month of May due to 6 hours of communication error occurring on May 5th at 9:00 – 13:00 and May 6th at 10:00 – 12:00; furthermore, 1 hour of equipment malfunction due to the precipitation interference occurring on May 29th at 16:00.

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)	98.9	51.0	0*	13.0	0
PM ₁₀ (µg/m ³)	98.9	485.0	-	102.6	-
TSP (µg/m ³)	98.9	985.0	-	207.4	8

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

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 8 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Windridge station, the TSP, PM₁₀ and PM_{2.5} analyzers recorded 98.9% uptime for the month of May due to 2 hours of communication errors occurring on May 6th at 10:00 – 12:00; furthermore, 6 hours of equipment malfunction occurring on May 3rd at 5:00, May 13th at 12:00, May 16th at 23:00, May 17th at 0:00, May 18th at 11:00 and May 29th at 15:00.

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.

Calibration/Maintenance Notes:

- The analyzer had 0% uptime for the month of May due to an instrument error currently being resolved.

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 2-3 West 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)	100.0	42.1	0*	10.1	0
PM ₁₀ (µg/m ³)	100.0	237.5	-	50.6	-
TSP (µg/m ³)	100.0	688.2	-	137.6	7

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

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 7 exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The analyzer had 100% uptime for the month of May.

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 May due to an instrument error currently being resolved.

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 and tables and graphs illustrating the monitoring results for May 2025.

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 May 2 nd . The monitor had 99.1% uptime for the month of May due to 6 hours of communication error occurring on May 5 th at 9:00 – 13:00 and May 6 th at 10:00 – 12:00; furthermore, 1 hour of equipment malfunction due to the precipitation interference occurring on May 29 th at 16:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on May 2 nd . The monitor had 99.1% uptime for the month of May due to 6 hours of communication error occurring on May 5 th at 9:00 – 13:00 and May 6 th at 10:00 – 12:00; furthermore, 1 hour of equipment malfunction due to the precipitation interference occurring on May 29 th at 16:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 2 nd . The monitor had 99.1% uptime for the month of May due to 6 hours of communication error occurring on May 5 th at 9:00 – 13:00 and May 6 th at 10:00 – 12:00; furthermore, 1 hour of equipment malfunction due to the precipitation interference occurring on May 29 th at 16:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on May 27 th . The monitor had 99.5% uptime during the month of May due to 4 hours of communication error

		occurring on May 5 th at 9:00 – 11:00 and May 6 th at 10:00 – 12:00.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on May 27 th . The monitor had 99.5% uptime during the month of May due to 4 hours of communication error occurring on May 5 th at 9:00 – 11:00 and May 6 th at 10:00 – 12:00.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 99.5% uptime during the month of May due to 4 hours of communication error occurring on May 5 th at 9:00 – 11:00 and May 6 th at 10:00 – 12:00.
Wind Speed	MetOne Wind Sensor	The monitor had 99.3% uptime during the month of May due to 5 hours of communication error occurring on May 2 nd at 12:00, May 5 th at 9:00 – 11:00 and May 6 th at 10:00 – 12:00.
Wind Direction		
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 99.3% uptime during the month of May due to 5 hours of communication error occurring on May 2 nd at 12:00, May 5 th at 9:00 – 11:00 and May 6 th at 10:00 – 12:00.

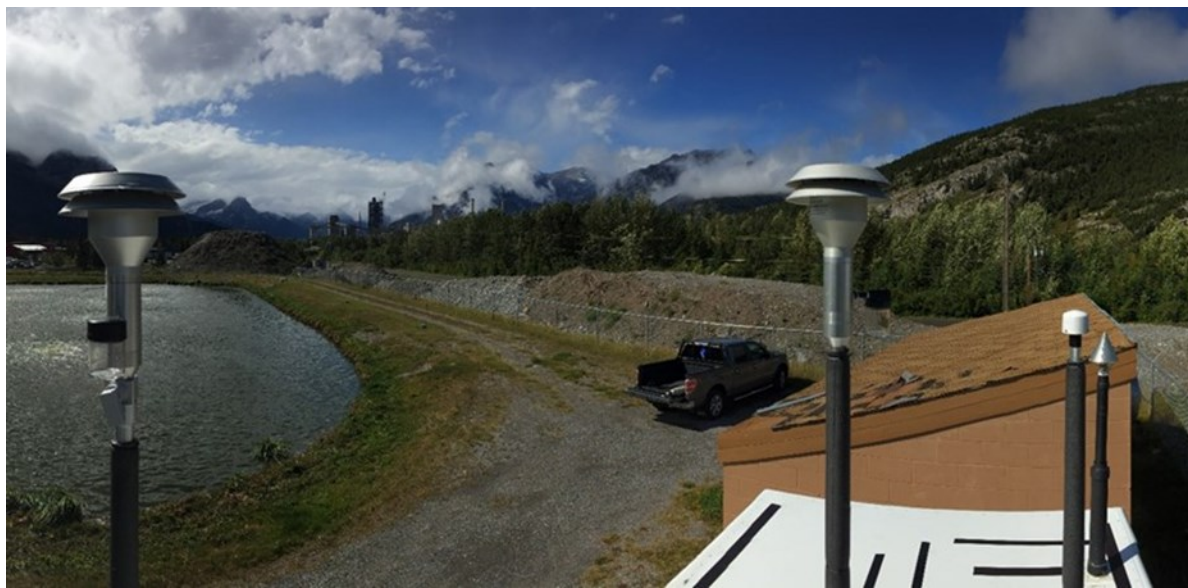


Figure 3-1 Inlets on the top of WSP's Lagoon monitor

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in May 2025, and Table 3-3 recorded the exceedances. 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 May 2025 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 were 5 exceedances of the 24-hour TSP AAAQO (100 µg/m³). There were no exceedances the 24-hour PM_{2.5} AAAQO (29 µg/m³). Further, there was 1 exceedance of the 1-hour PM_{2.5} AAAQG (80 µg/m³) at the station this month.

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are both zero. The maximum number of 24-hour TSP AAAQO exceedances recorded in May were 3 days in 2023. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in May were 4 days in 2023.

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 May 2025 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/h r)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	0.6	6.0	45.4	8	7	11.9	222.7	9.4	25	99.5
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	1.5	22.1	9	11	6.0	192.9	3.9	25	99.5
PM _{2.5} (µg/m ³)	80	29	Lagoon	1	0	0.0	3.9	90.8	1	13	15.2	229.9	12.9	26	99.1
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	32.0	484.2	26	12	22.6	224.9	117.5	26	99.1
TSP (µg/m ³)	-	100	Lagoon	-	5	0.0	62.3	1004.0	26	12	22.6	224.9	224.4	26	99.1
Temperature (°C)	-	-	Lagoon	-	-	-6.1	11.9	27.6	29	13	20.5	242.1	19.5	31	99.3
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	0.4	12.2	31.6/W	7	14	31.6	212.2	18.1/WSW	19	99.3
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.1	6.5 ¹	12	11	5.4	220.0	39.8 ²	-	99.5

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/m³)	PM _{2.5} (ug/m³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Lagoon						
2025-05-02	106.5	-	242.8	16.7	28.2	
2025-05-07	141.3	-	233.0	16.5	30.6	
2025-05-23	106.9	-	246.1	8.9	55.0	
2025-05-26	224.4	-	214.4	17.7	45.0	
2025-05-29	157.4	-	232.4	15.4	44.4	
Total # of Exceedances	5	0				
Maximum # of Exceedances (May)	3 (2023)	4 (2023)				
Average # of Exceedances (May)	0	0				
Minimum # of Exceedances (May)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2024)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2021, 2022, 2024)				

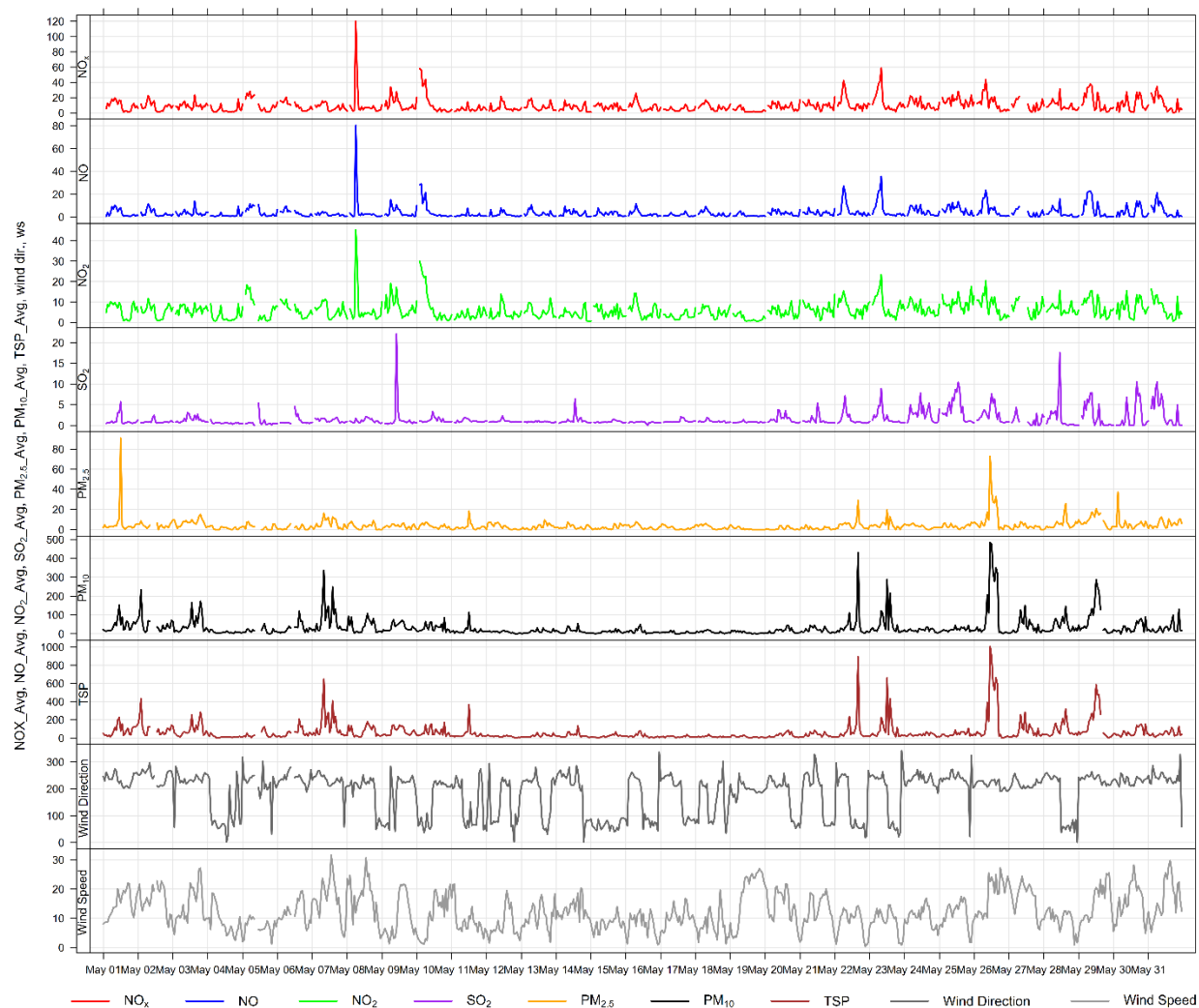


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

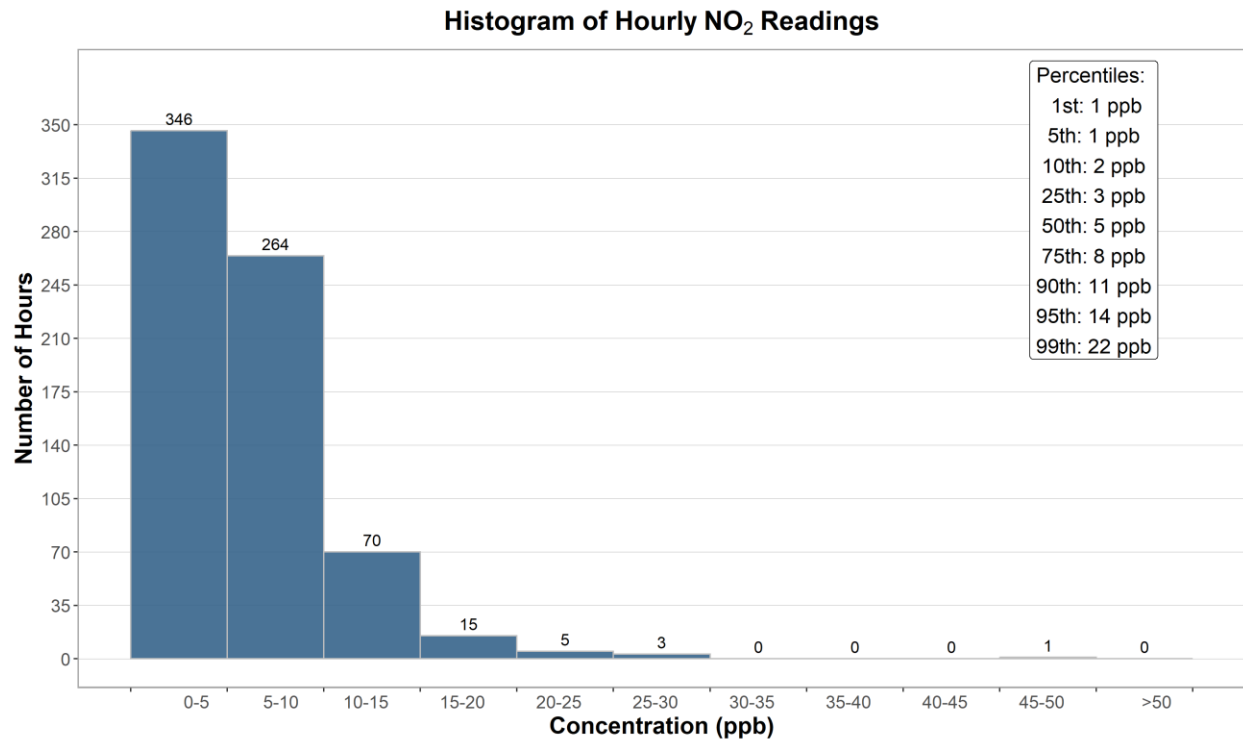


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

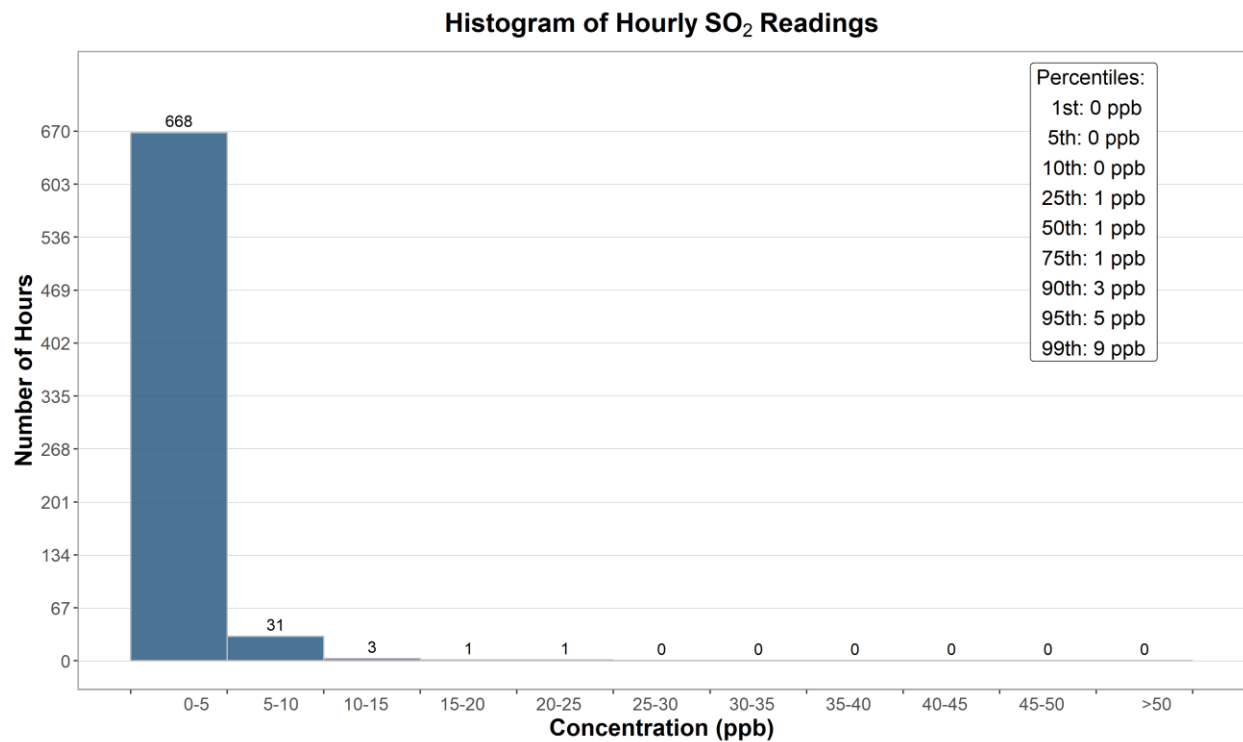


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

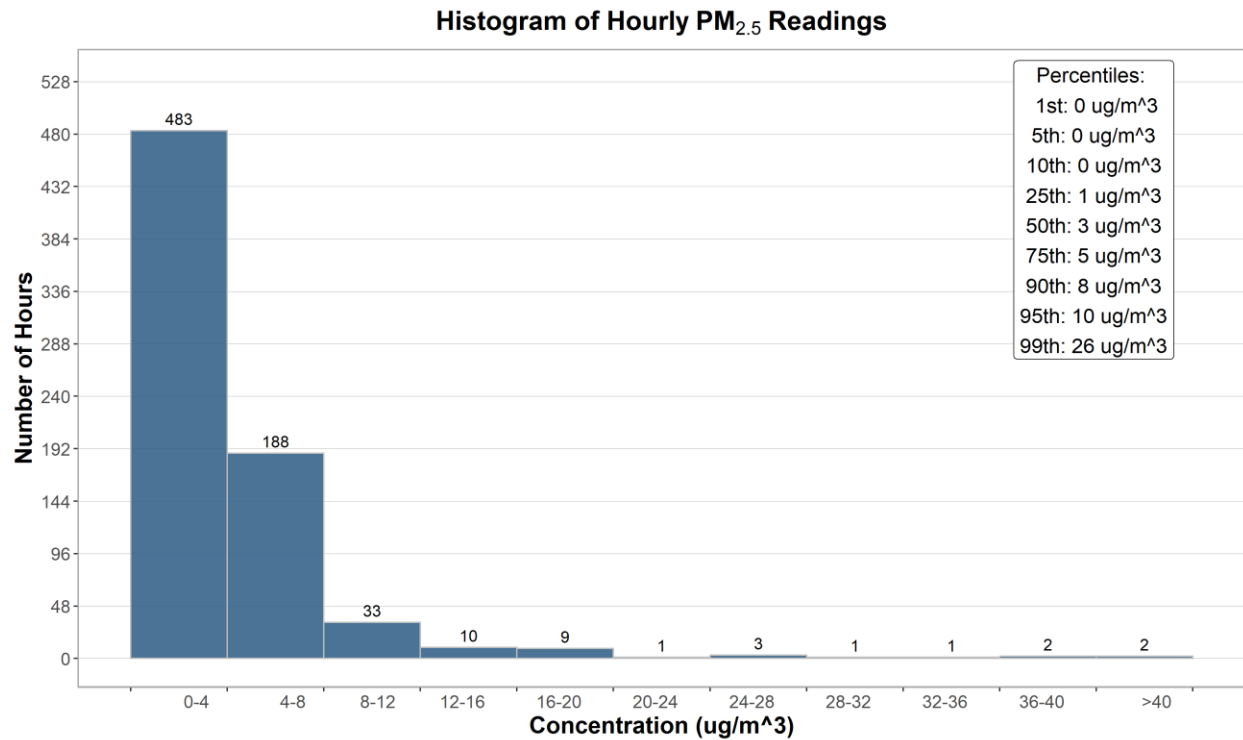


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

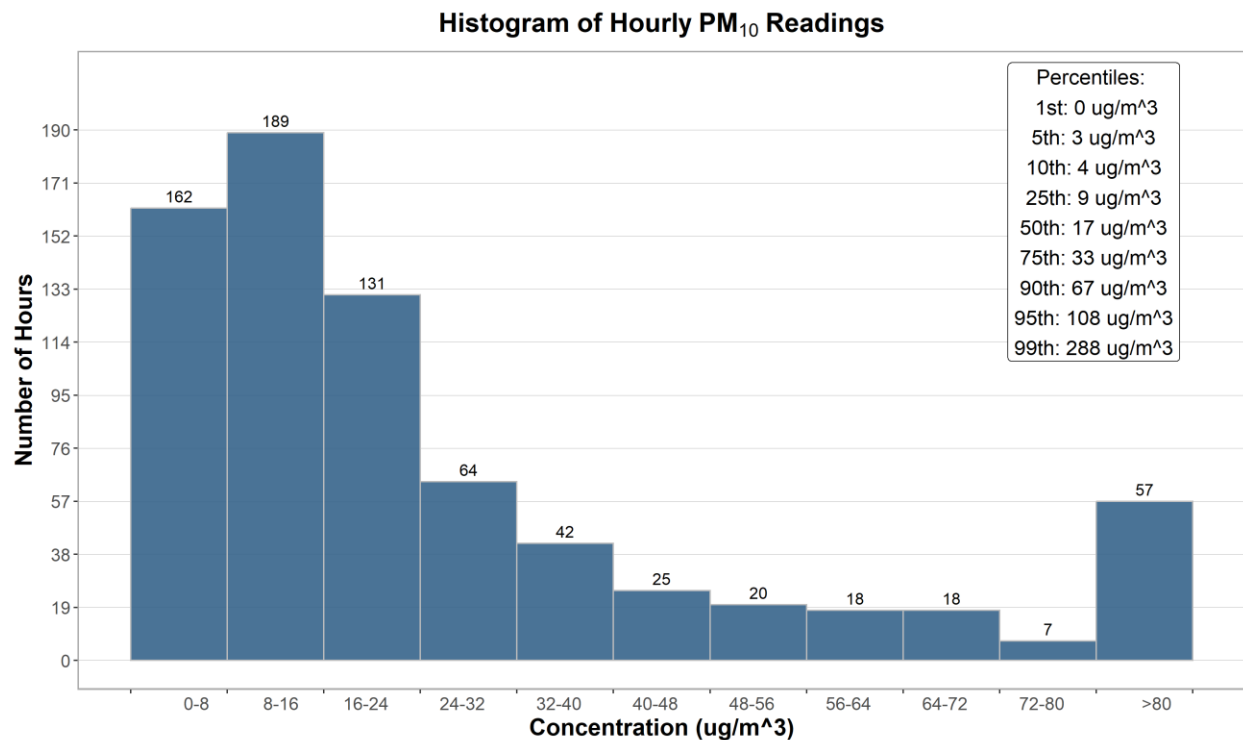


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

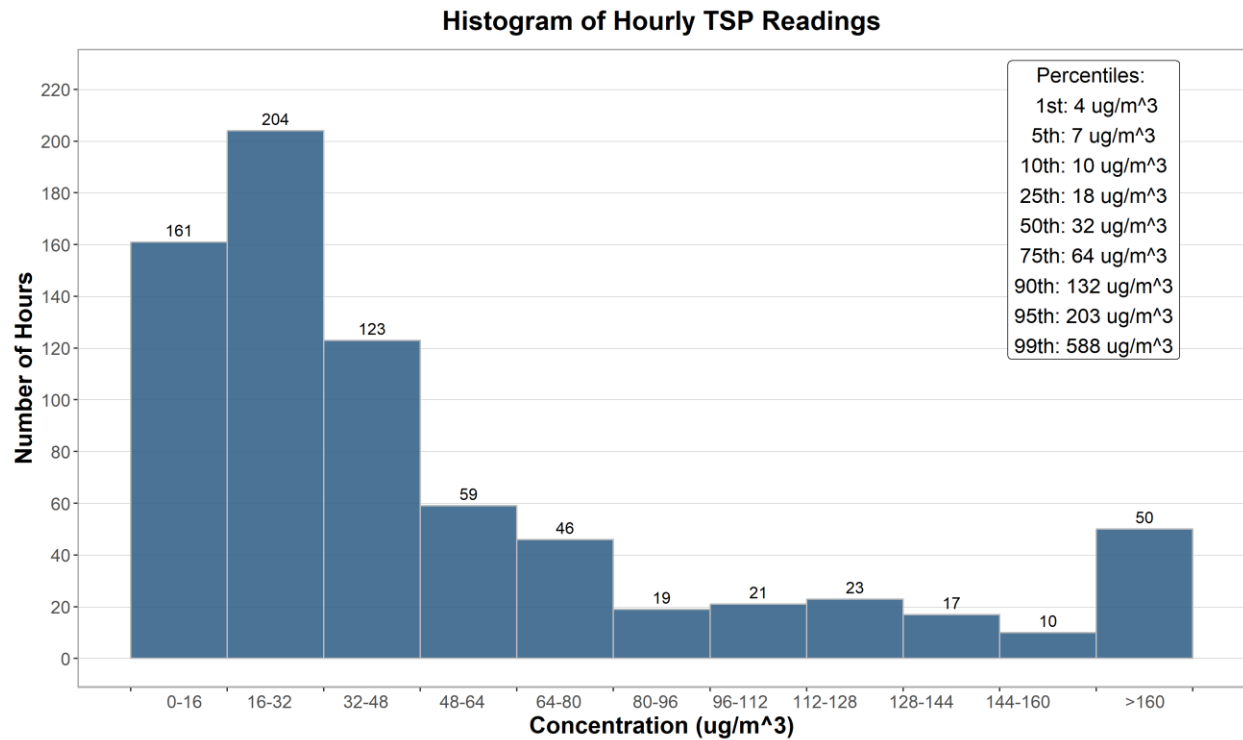


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

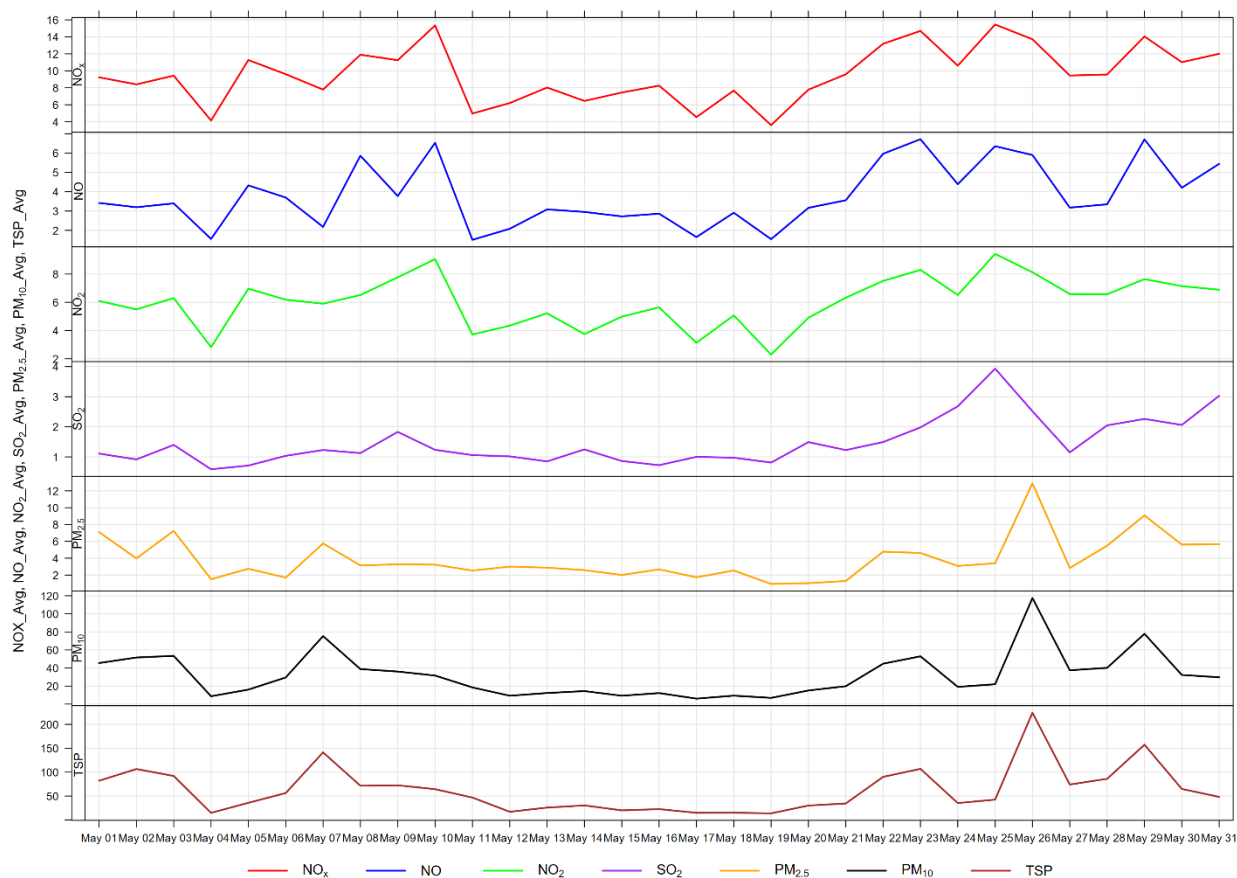


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-9 shows the wind rose for the 5 days of TSP exceedance in May. The wind rose shows that the winds predominately came from the west-southwest to southwest, suggesting impacts of windblown dust from the direction of the Lafarge Facility.

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.

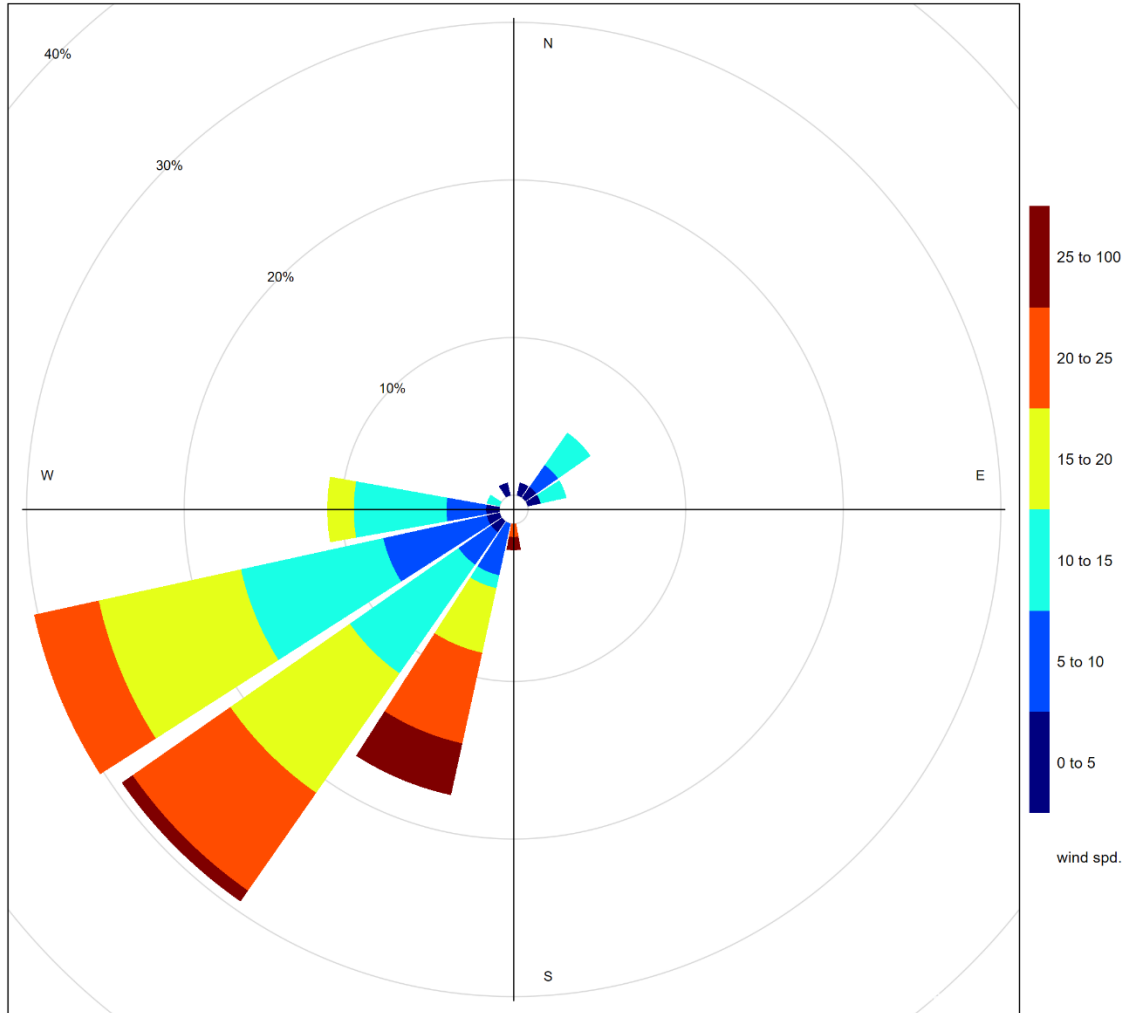


Figure 3-9 Wind rose for TSP exceedance days recorded at the Lagoon Station

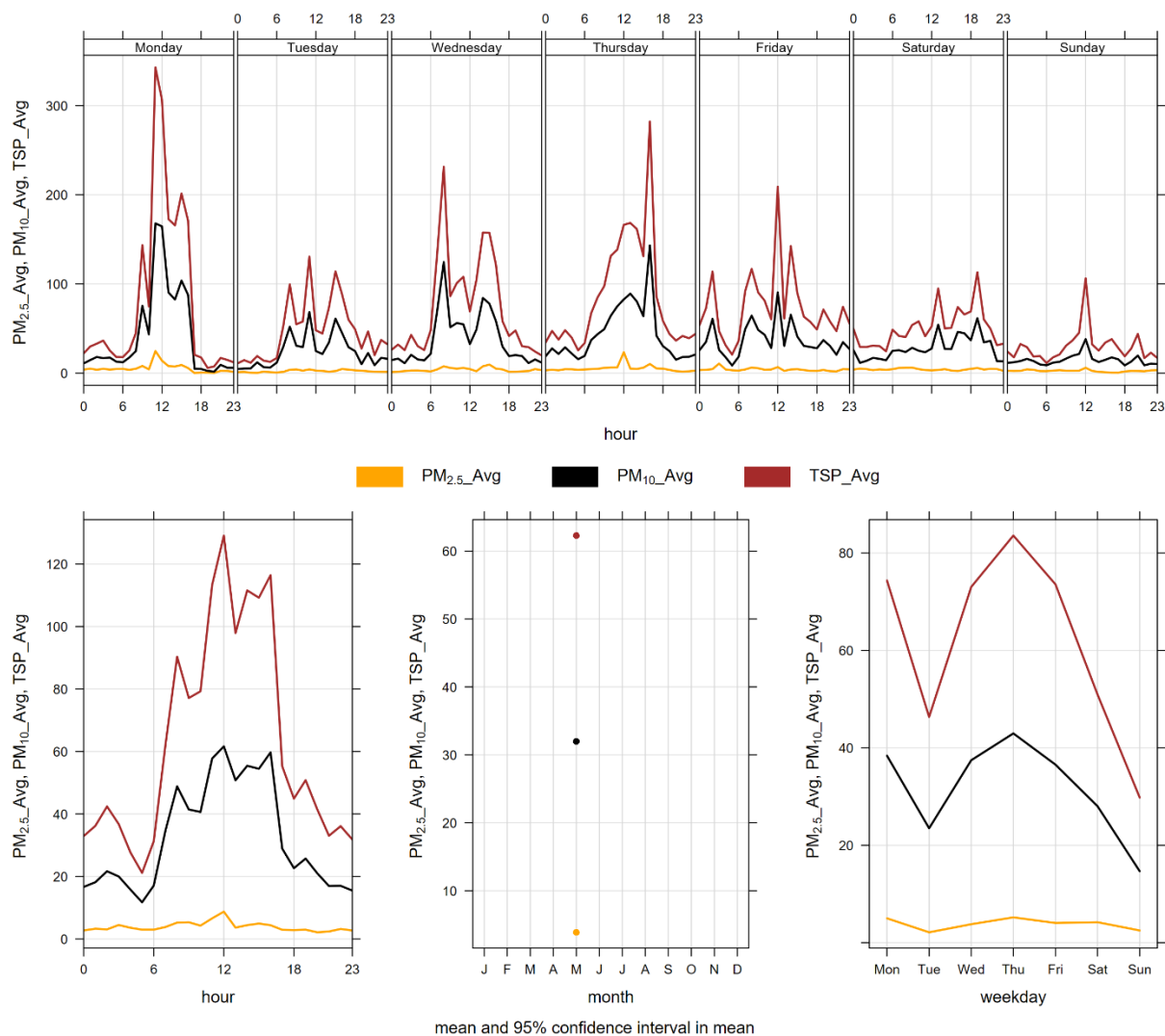


Figure 3-10 Lagoon monitor particulate matter time variation

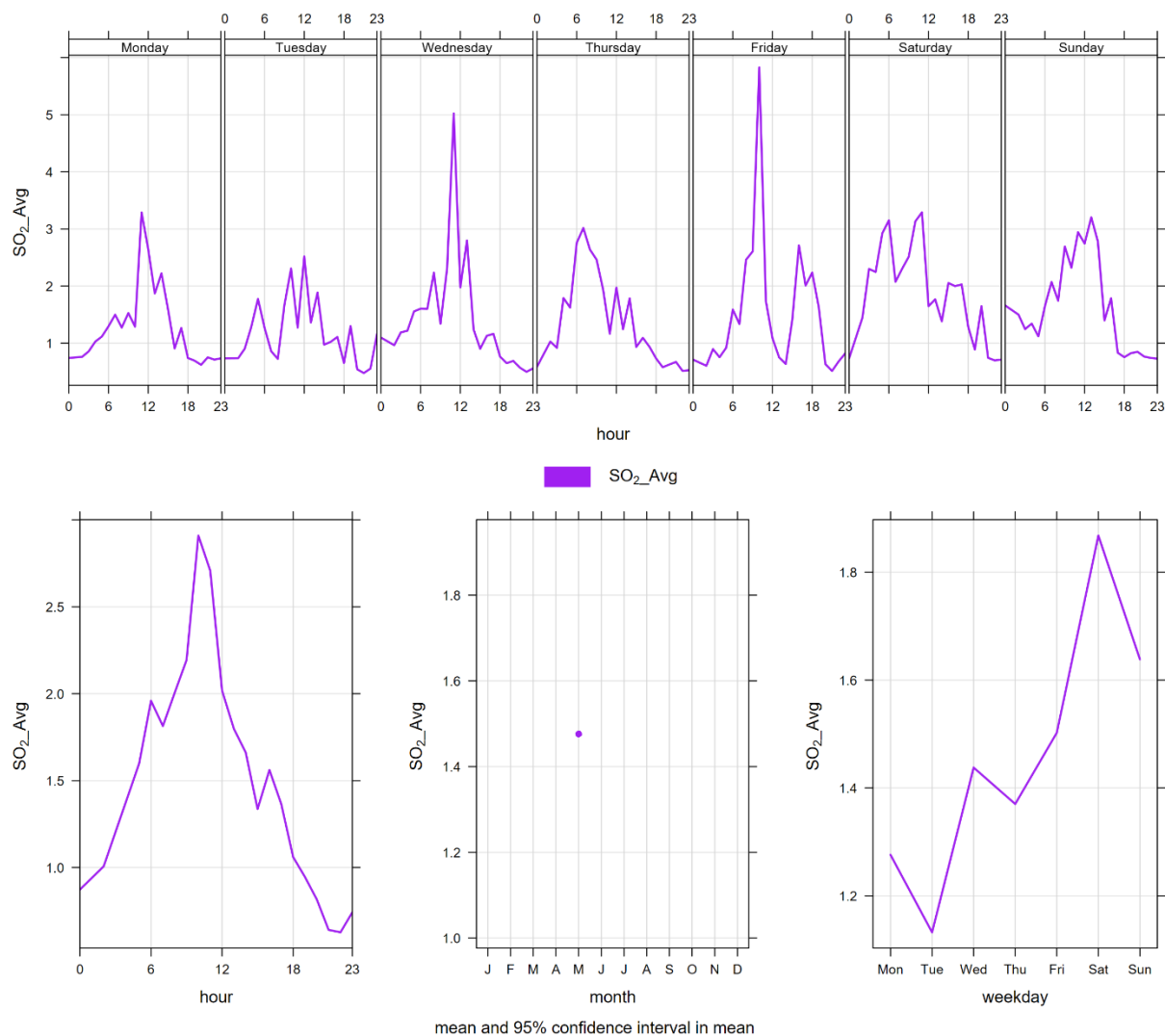


Figure 3-11 Lagoon monitor SO_2 time variation

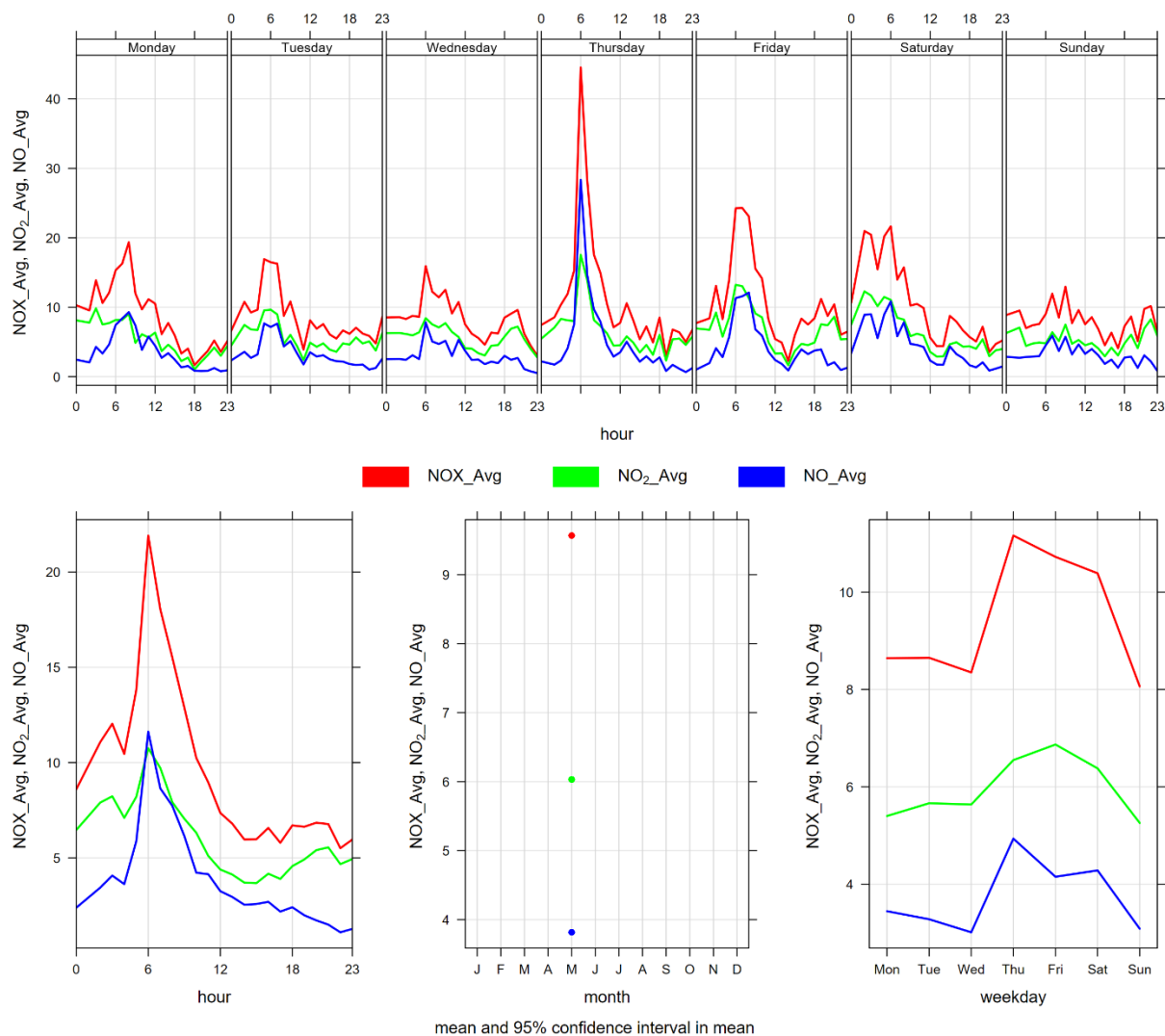


Figure 3-12 Lagoon monitor NO_x time variation

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 May 2025.

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 May 3 rd . The monitor had 98.9% uptime for the month of May due to 2 hours of communication errors occurring on May 6 th at 10:00 – 12:00; furthermore, 6 hours of equipment malfunction occurring on May 3 rd at 5:00, May 13 th at 12:00, May 16 th at 23:00, May 17 th at 0:00, May 18 th at 11:00 and May 29 th at 15:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on May 3 rd . The monitor had 98.9% uptime for the month of May due to 2 hours of communication errors occurring on May 6 th at 10:00 – 12:00; furthermore, 6 hours of equipment malfunction occurring on May 3 rd at 5:00, May 13 th at 12:00, May 16 th at 23:00, May 17 th at 0:00, May 18 th at 11:00 and May 29 th at 15:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 3 rd . The monitor had 98.9% uptime for the month of May due to 2 hours of communication errors occurring on May 6 th at 10:00 – 12:00; furthermore, 6 hours of equipment malfunction occurring on May 3 rd at 5:00, May 13 th at 12:00, May 16 th at 23:00, May 17 th at 0:00, May 18 th at 11:00 and May 29 th at 15:00.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in May 2025, and Table 4-3 recorded the 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.

There were no exceedances of the 24-hour PM_{2.5} AAAQO. There were no exceedances of the 1-hour PM_{2.5} AAAQG, and 8 exceedances of the 24-hour TSP AAAQO.

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 3 and 1, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in May were 5 days in 2022, 2023 and 2024. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in May were 4 days in 2023.

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 May 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 May 2025 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/m³)	80	29	Windridge	0	0	0.0	2.7	51.0	29	13	20.5	242.1	13.0	29	98.9
PM ₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	36.0	485.0	26	11	25.5	210.8	102.6	26	98.9
TSP (µg/m³)	-	100	Windridge	-	8	0.0	62.5	985.0	26	11	25.5	210.8	207.4	26	98.9

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						
2025-05-03	119.2	-	237.1	14.3	36.4	
2025-05-07	118.0	-	233.0	16.5	30.6	
2025-05-08	111.3	-	217.9	17.2	37.7	
2025-05-09	106.1	-	226.2	10.2	32.9	
2025-05-26	207.4	-	214.4	17.7	45.0	
2025-05-29	186.8	-	232.4	15.4	44.4	
2025-05-30	122.4	-	227.7	15.5	34.9	
2025-05-31	112.2	-	240.7	16.6	35.6	
Total # of Exceedances	8	0				
Maximum # of Exceedances (May)	5 (2022, 2023, 2024)	4 (2023)				
Average # of Exceedances (May)	3	1				
Minimum # of Exceedances (May)	1 (2018, 2021)	0 (2018, 2021, 2022, 2024)				

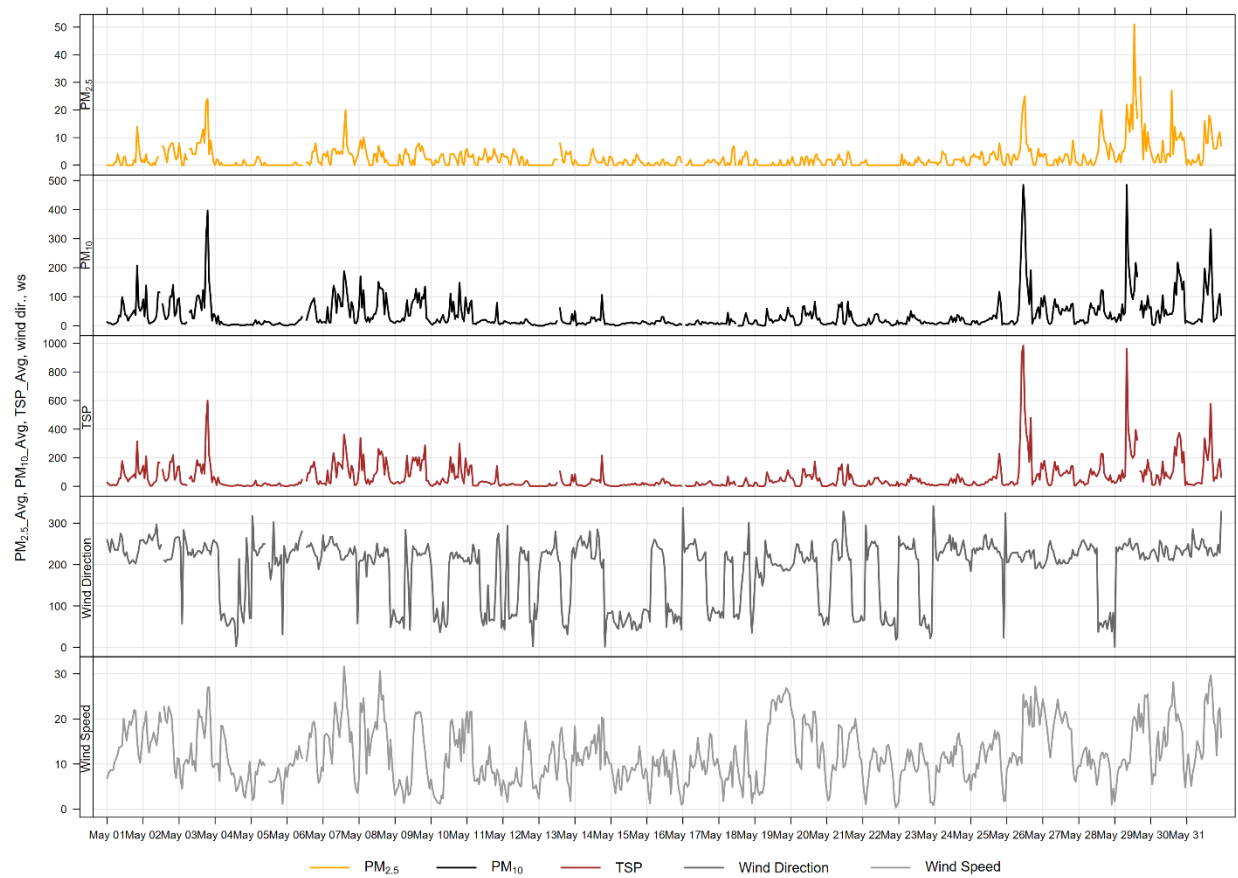


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

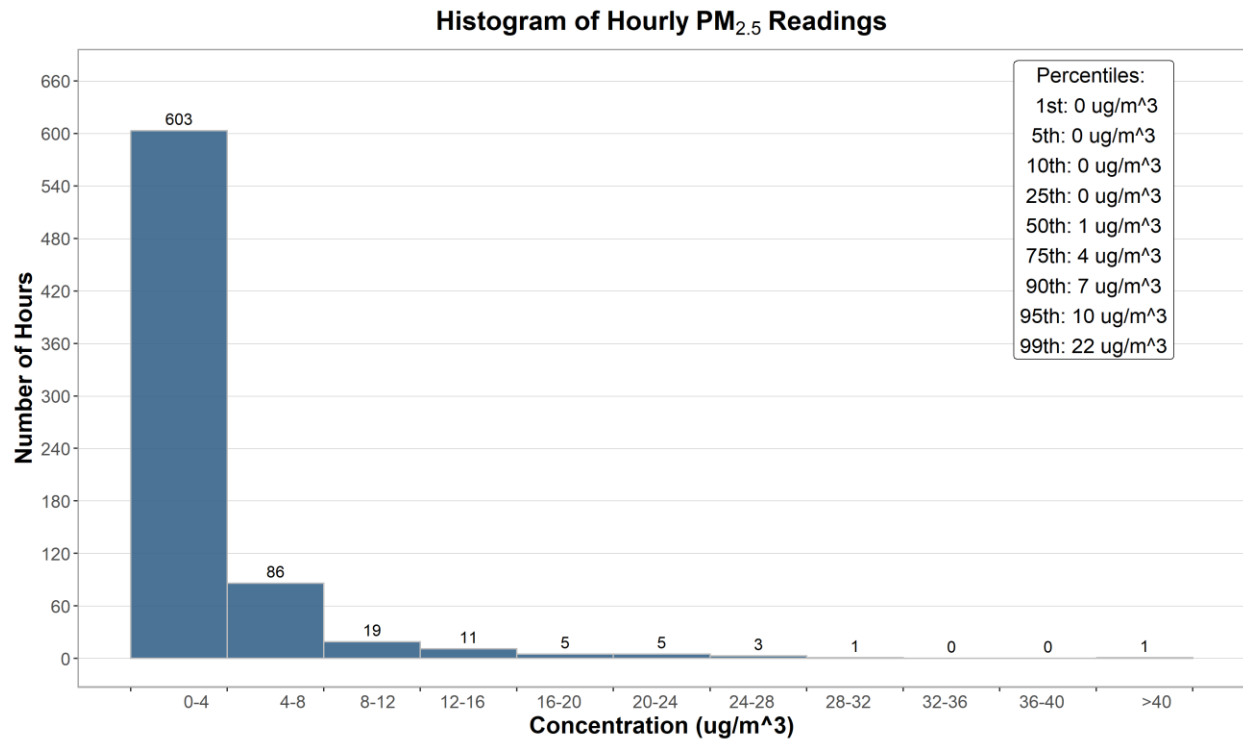


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

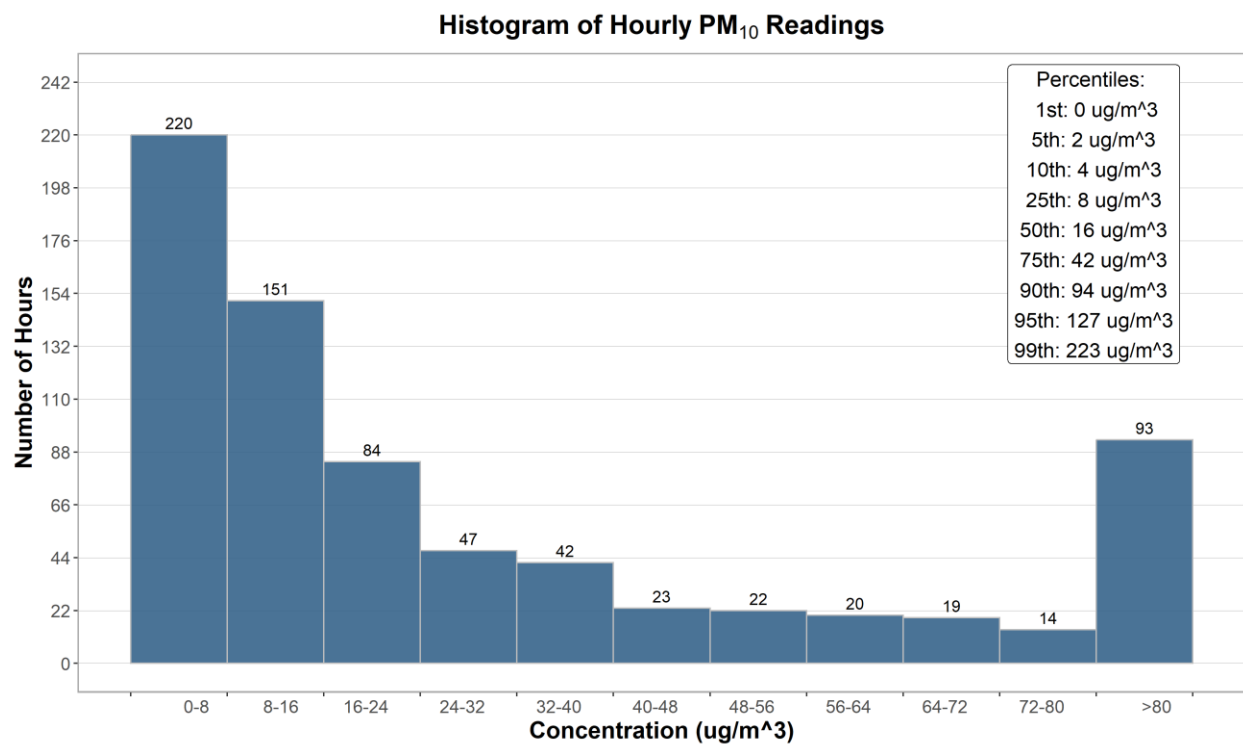


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

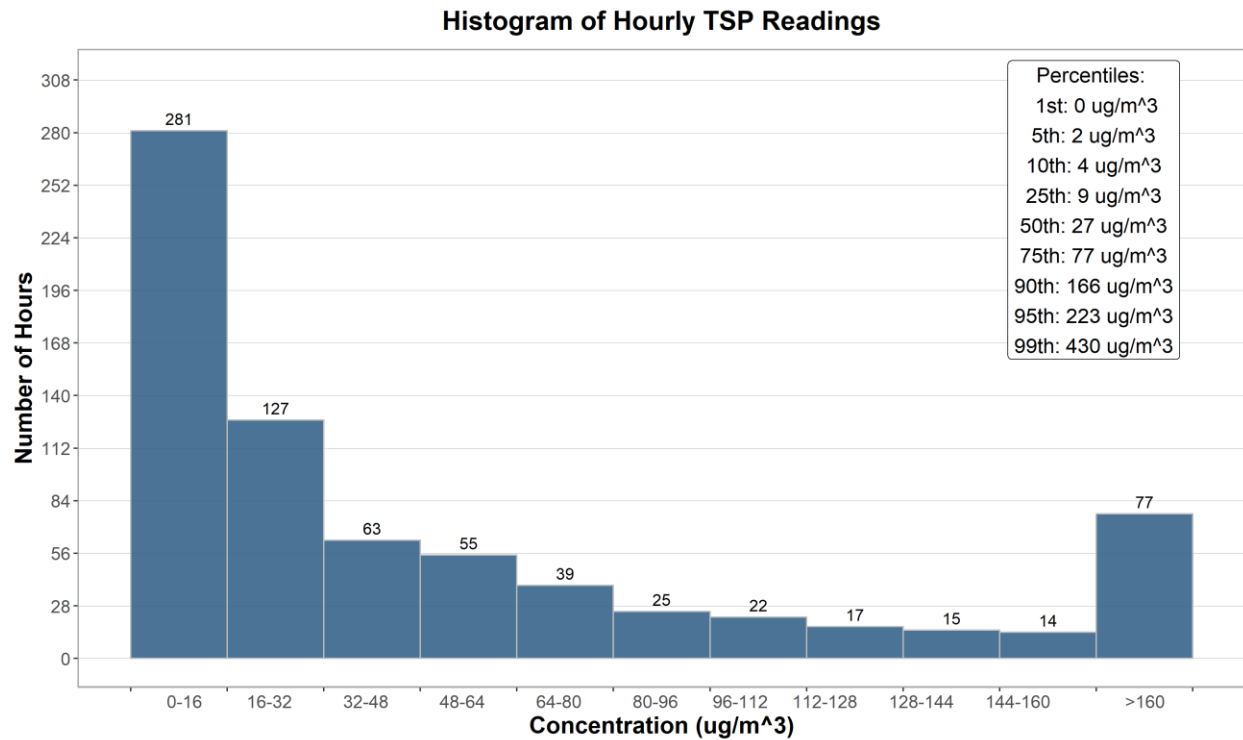


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

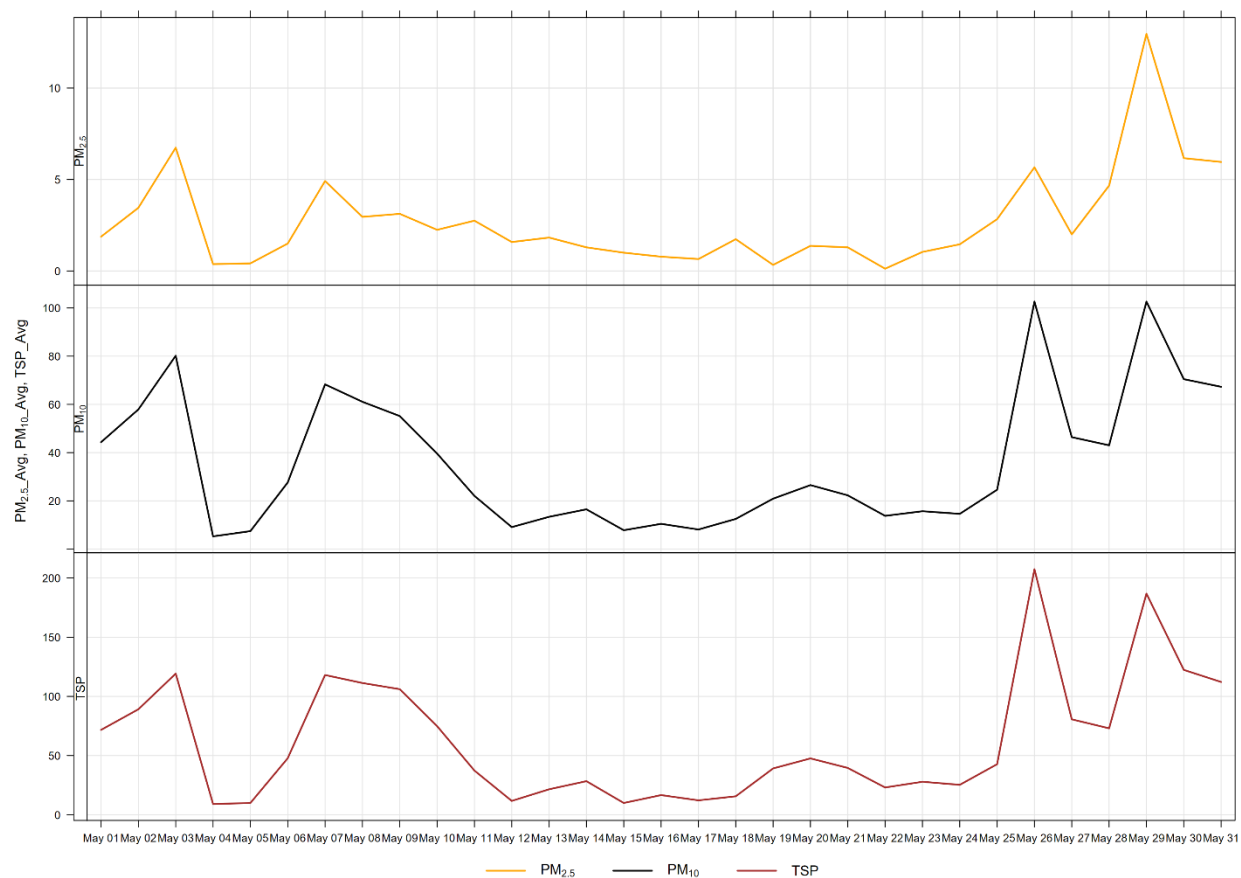


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 8 days of TSP exceedance in May. The wind rose shows that the winds predominately came from west-southwest to southwest, suggesting impacts of windblown dust from the direction of the Lafarge Facility.

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 May 2025. The data shows a diurnal pattern potentially associated with Lafarge daytime operations, daytime emissions from traffic and other airshed activities. The PM concentrations also follow the diurnal pattern of higher wind speeds during the daytime hours.

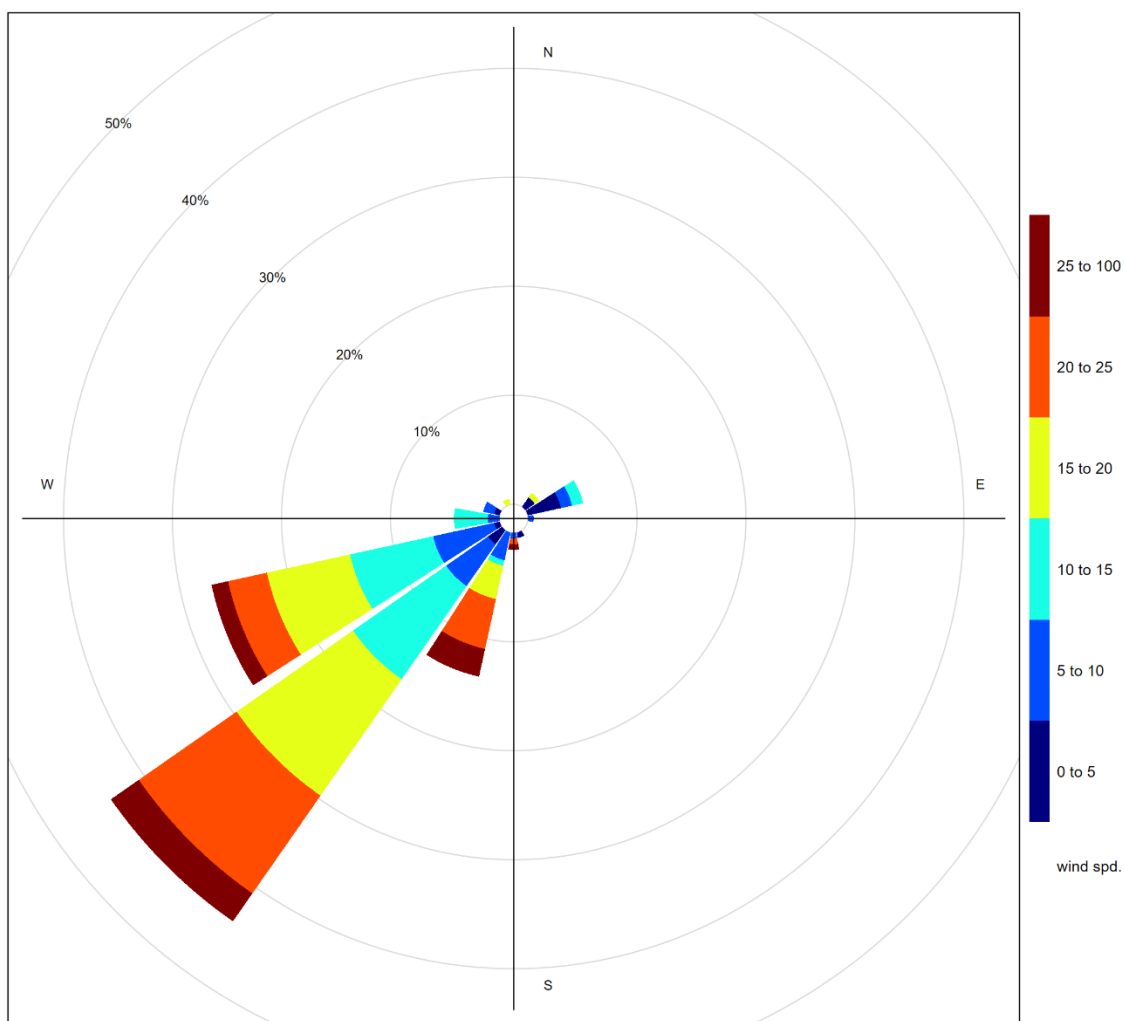


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

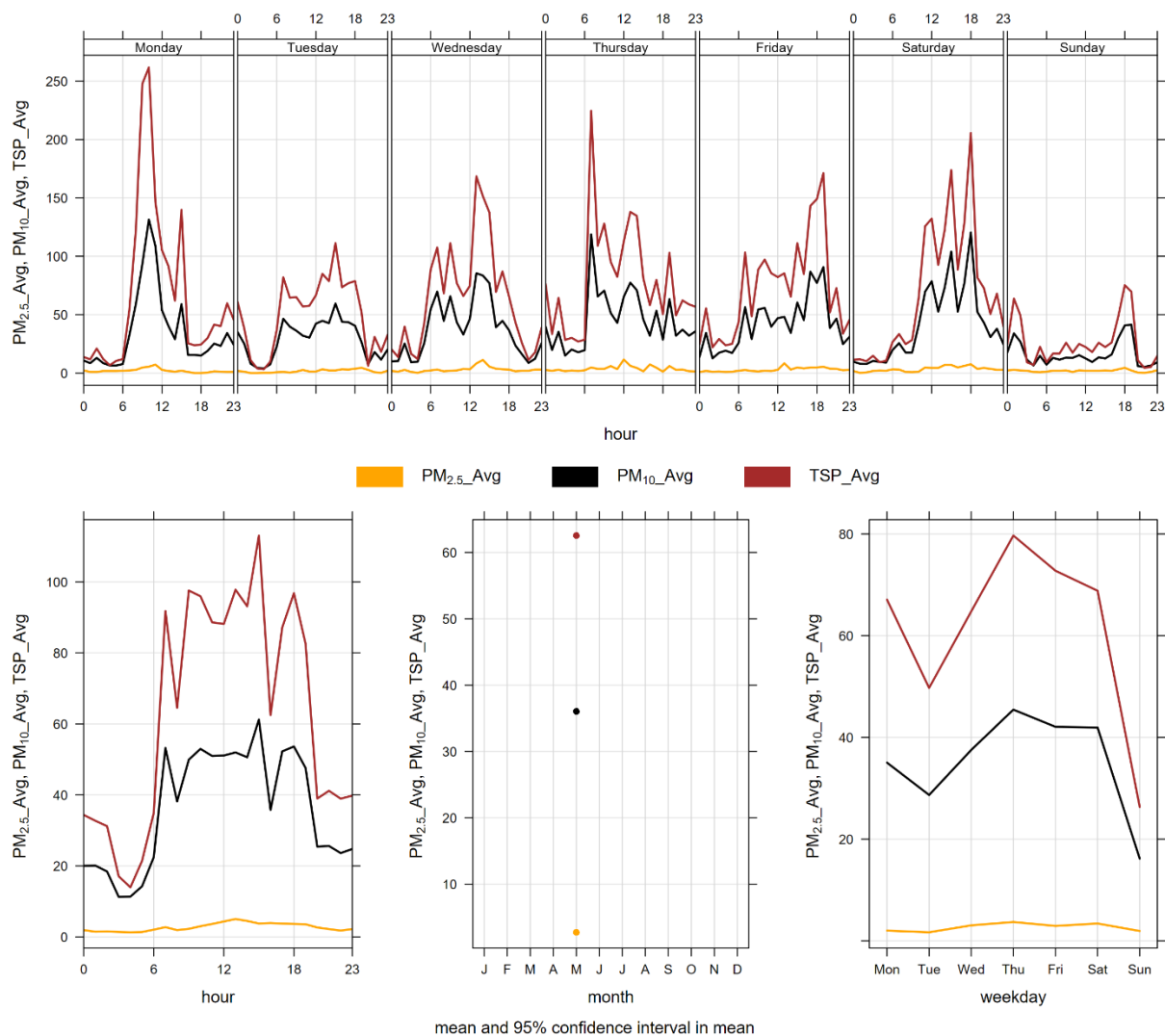


Figure 4-7 Windridge particulate matter time variation

5 BERM 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 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 May.

5.2 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 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀, and TSP concentrations recorded over the month. Table 5-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month, and Table 5-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

There were 7 exceedances of the 24-hour TSP Guideline (100 µg/m³). There were no exceedances of the 24-hour PM_{2.5} (29 µg/m³) and the 1-hour PM_{2.5} Guideline.

Historically during the month of May, the Berm monitor records an average of 7 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during May occurred in 2010, 2012 and 2022 where there were 16 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in May was 4 days in 2023.

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 July 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 5-2 Summary of May 2025 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/m³)	80	29	Berm	0	0	0.0	4.6	42.1	3	18	19.6	246.1	10.1	7	100.0
PM ₁₀ (µg/m³)	-	-	Berm	-	-	0.0	19.8	237.5	29	16	23.3	232.7	50.6	30	100.0
TSP (µg/m³)	-	100	Berm	-	7	0.0	50.7	688.2	29	16	23.3	232.7	137.6	30	100.0

Table 5-3 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						
2025-05-03	101.0	-	237.1	14.3	36.4	
2025-05-07	129.9	-	233.0	16.5	30.6	
2025-05-08	110.9	-	217.9	17.2	37.7	
2025-05-26	112.2	-	214.4	17.7	45.0	
2025-05-29	117.3	-	232.4	15.4	44.4	
2025-05-30	137.6	-	227.7	15.5	34.9	
2025-05-31	127.4	-	240.7	16.6	35.6	
Total # of Exceedances	7	0				
Maximum # of Exceedances (May)	16 (2010, 2012, 2022)	4 (2023)				
Average # of Exceedances (May)	7	0				
Minimum # of Exceedances (May)	0 (2024)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2021, 2024)				

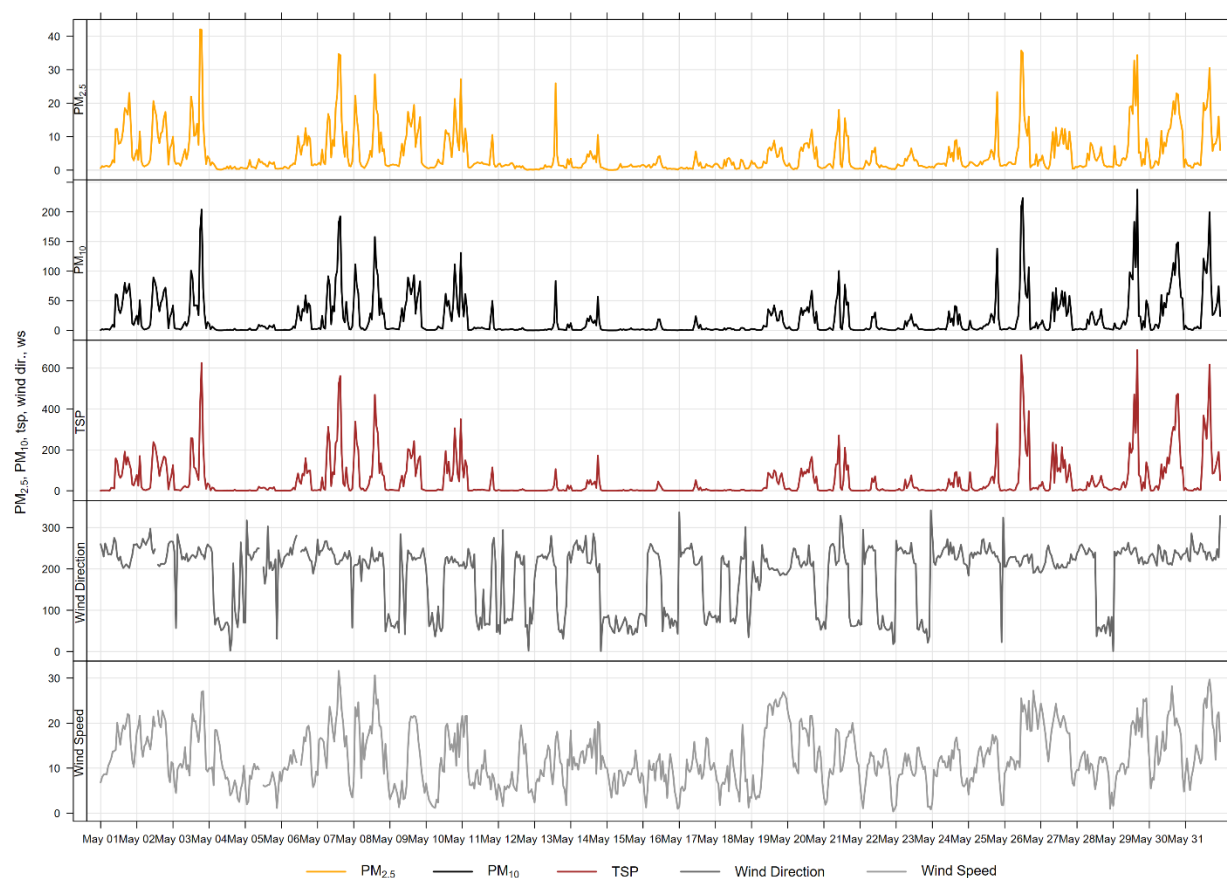


Figure 5-1 1-hour particulate matter concentrations at the Berm monitor

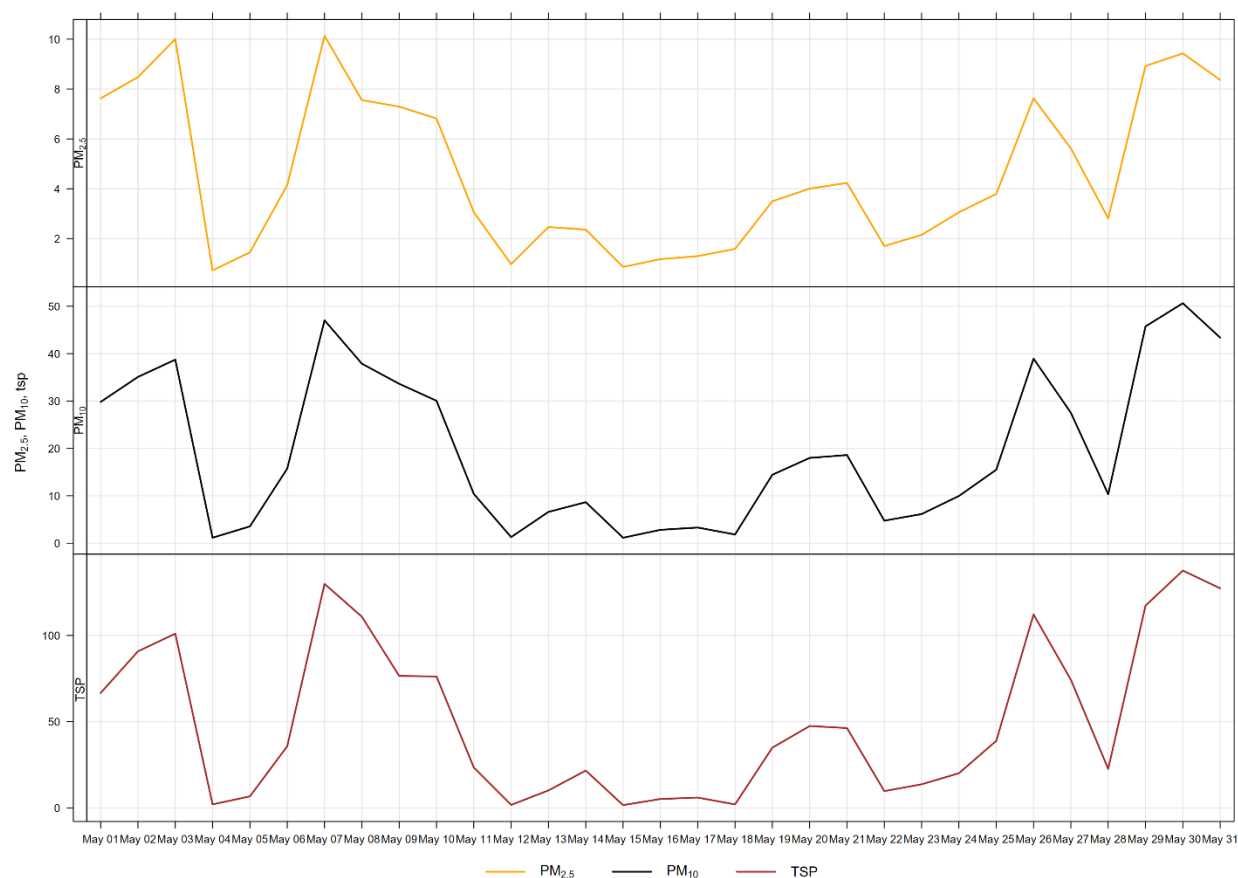


Figure 5-2 24-hour particulate matter concentrations at the Berm monitor

Figure 5-3 shows the wind rose for the 7 days of TSP exceedances. The wind rose shows that the wind predominately came from the southwest to west-southwest direction, suggesting impacts of windblown dust from the direction of the Lafarge Facility.

Figure 5-4 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern, similar to the Windridge station, and is associated with Lafarge operations, but also daytime emissions from other activities and sources in Exshaw.

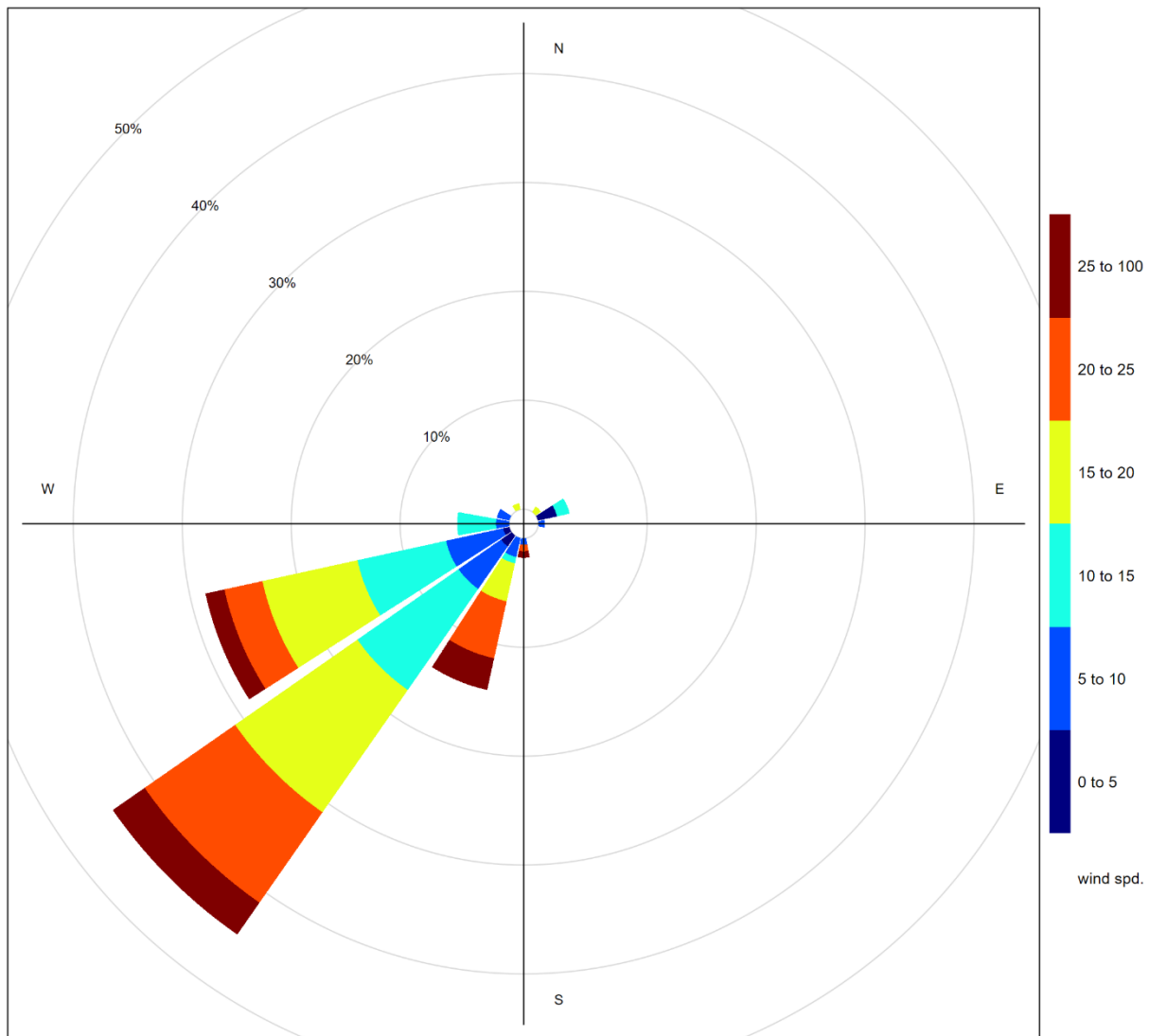


Figure 5-3 Windrose for TSP exceedance days recorded at the Berm GRIMM

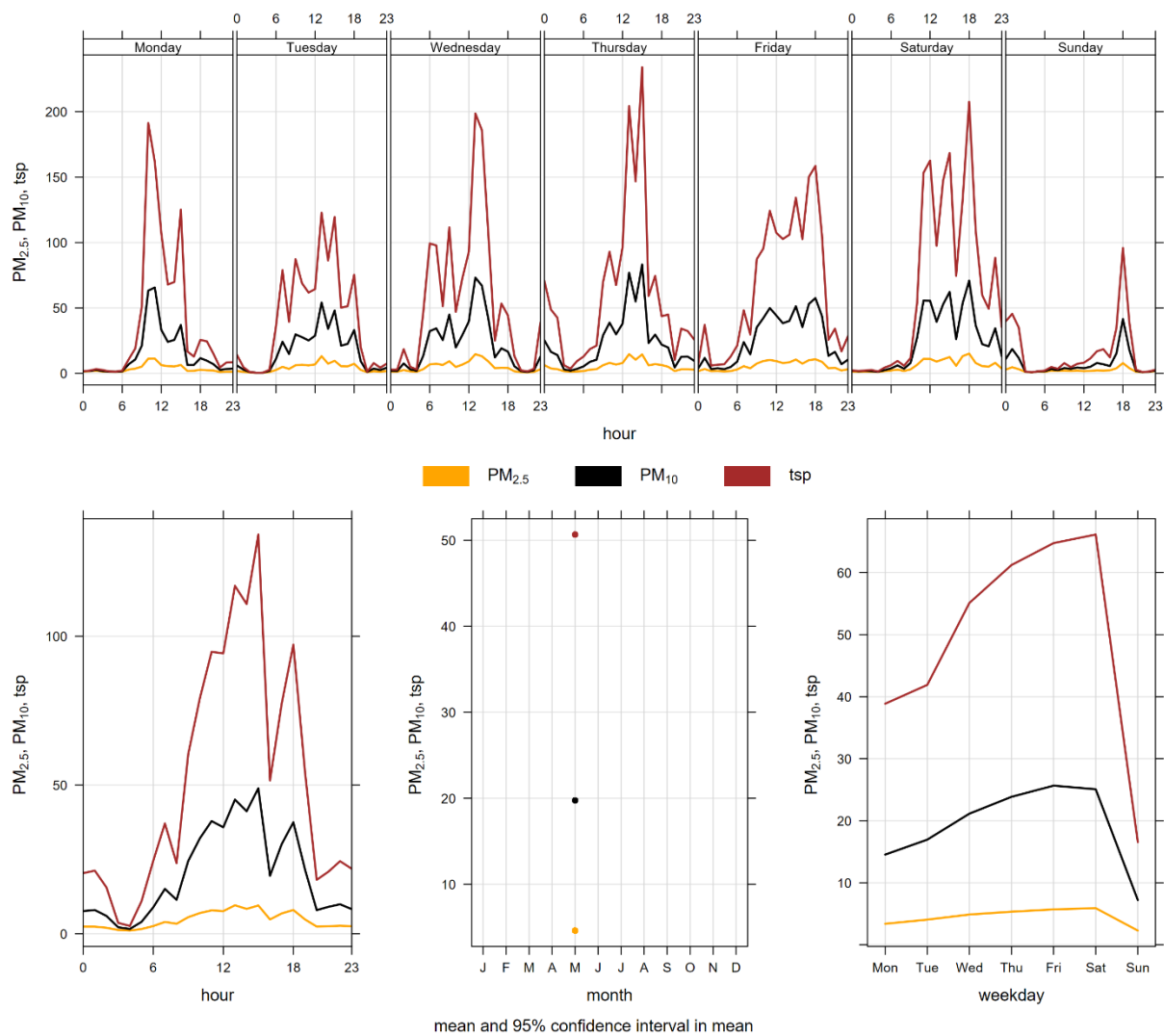


Figure 5-4 Berm monitor particulate matter time variation

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- Levelton Consultants Ltd. (2015, June 15). Comparison of GRIMM and E-BAM Data. Alberta, Can

APPENDIX

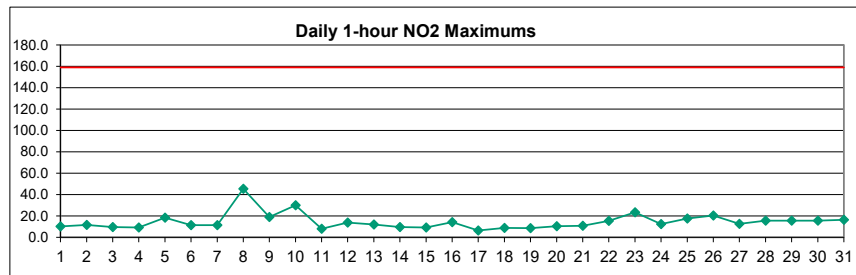
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – May 2025

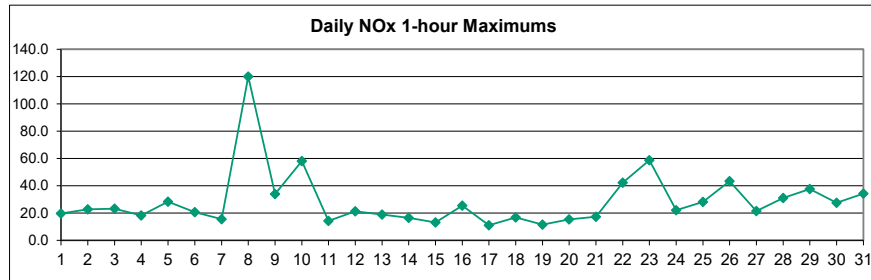
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	5.2	S	4.8	8.7	7.9	10.1	9.4	8.6	9.6	8.4	6.9	9.8	8.0	3.0	0.8	1.1	1.5	0.8	0.7	2.1	8.6	10.2	6.0	7.7	6.1	10.2
2	4.9	S	7.7	4.7	4.5	5.6	7.1	11.7	8.9	5.9	7.8	8.7	2.3	1.0	0.8	1.0	1.4	1.5	4.4	6.5	6.9	9.4	8.3	5.5	5.5	11.7
3	7.2	S	4.2	5.9	3.4	8.7	7.7	8.9	8.9	4.7	7.3	4.9	4.6	2.4	4.8	9.6	5.1	6.4	6.7	8.1	4.0	6.6	6.8	8.0	6.3	9.6
4	5.6	S	9.1	2.4	1.0	0.6	1.0	2.8	3.9	8.2	2.1	1.1	1.4	1.6	0.8	0.7	0.8	1.3	1.1	1.8	2.3	9.1	3.6	2.5	2.8	9.1
5	7.6	S	13.7	18.3	16.3	17.1	11.1	11.1	8.6	K	K	0.7	3.2	1.4	2.5	3.5	0.8	0.6	1.0	1.2	5.3	7.8	6.3	8.0	7.0	18.3
6	7.7	S	11.2	10.7	9.3	8.8	11.4	7.4	6.6	6.0	K	K	8.9	5.0	6.6	4.1	4.9	1.8	1.6	2.2	2.0	3.3	4.2	5.8	6.2	11.4
7	4.0	S	7.2	6.0	6.9	7.4	8.1	11.0	10.3	11.4	10.3	2.2	1.2	1.4	2.3	2.8	3.8	5.2	6.9	3.1	4.2	10.2	5.7	4.1	5.9	11.4
8	1.8	S	6.6	4.6	1.8	2.6	45.4	27.6	3.3	2.6	4.7	2.7	4.7	4.2	4.5	4.6	3.8	3.9	6.5	4.7	1.5	1.9	2.7	3.1	6.5	45.4
9	10.0	S	6.8	13.5	4.5	6.9	19.0	14.8	8.5	9.6	17.2	9.4	7.6	5.0	2.1	3.1	3.0	4.2	3.2	6.0	6.0	8.5	5.3	4.5	7.8	19.0
10	10.5	S	29.9	27.3	23.5	22.0	22.5	14.1	10.4	7.5	6.3	7.1	2.9	2.8	1.0	2.4	4.7	1.1	3.0	3.6	1.9	0.9	0.9	1.7	9.1	29.9
11	3.6	S	1.4	1.9	4.2	2.3	3.0	5.7	3.9	2.3	2.8	6.8	3.5	1.3	3.1	2.8	1.9	2.5	5.2	7.9	2.5	3.8	7.5	5.8	3.7	7.9
12	3.4	S	2.1	6.9	1.6	1.8	2.6	3.1	5.0	2.8	13.7	11.4	9.1	4.1	2.8	3.0	2.7	3.3	1.5	5.3	3.9	3.9	2.6	3.2	4.3	13.7
13	5.5	S	4.5	5.6	5.3	9.5	9.6	8.8	3.8	3.6	3.3	2.5	1.6	2.1	3.3	6.1	4.7	3.9	4.6	6.1	11.9	8.2	2.6	2.9	5.2	11.9
14	2.5	S	2.1	3.4	3.2	3.0	7.1	5.0	5.0	5.2	3.8	2.4	4.0	5.2	4.3	3.3	2.1	1.8	2.4	8.7	9.6	0.7	0.6	0.6	3.7	9.6
15	0.6	S	8.0	7.6	9.1	5.4	5.6	8.8	4.1	1.6	4.9	3.6	2.5	4.9	5.8	2.9	7.6	3.9	9.1	1.7	7.0	4.2	2.8	2.9	5.0	9.1
16	3.1	S	6.7	8.0	5.4	8.6	14.2	14.2	9.3	6.0	3.8	1.1	1.4	3.0	1.4	3.4	3.0	4.4	2.5	7.9	9.4	8.3	2.4	2.1	5.6	14.2
17	6.4	S	3.9	3.9	2.5	2.4	2.7	4.3	3.0	2.1	1.1	1.3	1.3	1.4	3.4	3.6	4.0	6.1	6.5	2.3	2.4	2.3	2.5	2.6	3.1	6.5
18	7.1	S	4.2	4.5	4.7	8.7	6.8	8.1	8.0	8.0	5.4	3.2	3.9	1.4	1.4	1.8	7.2	4.4	3.5	4.9	5.9	2.6	4.3	6.6	5.1	8.7
19	8.6	S	4.3	3.1	2.9	4.3	4.8	5.4	2.3	3.5	0.8	0.6	0.7	0.7	0.7	0.9	1.3	0.9	0.6	0.6	0.7	1.1	1.2	2.9	2.3	8.6
20	1.9	S	5.8	5.4	4.0	8.0	6.7	7.1	3.7	8.4	5.6	2.3	4.2	3.0	5.8	3.8	3.6	7.1	10.5	4.6	1.6	4.1	1.9	3.7	4.9	10.5
21	10.8	S	10.7	9.0	7.0	7.5	9.3	6.5	6.2	6.7	5.1	2.7	7.9	5.0	0.9	1.7	7.1	6.7	6.2	5.2	10.0	4.9	5.9	2.4	6.3	10.8
22	13.7	S	7.4	11.8	10.0	12.4	15.3	12.5	8.6	8.4	5.1	3.6	3.2	3.4	1.8	6.6	6.2	3.7	6.2	1.7	8.0	8.4	5.3	9.3	7.5	15.3
23	10.0	S	8.6	10.4	12.9	13.1	15.4	18.2	23.4	8.5	5.3	3.0	3.8	6.2	2.9	3.9	2.6	3.0	1.1	4.6	7.9	10.7	6.6	8.7	8.3	23.4
24	6.0	S	7.1	8.8	12.4	11.4	8.8	6.0	9.2	5.1	7.7	11.3	3.8	6.4	3.1	3.9	6.8	7.5	4.7	4.5	5.9	2.8	3.5	3.4	6.5	12.4
25	8.7	S	13.6	8.9	9.2	8.1	8.4	9.0	4.7	11.5	8.7	10.0	9.2	15.1	10.9	6.4	6.8	4.1	9.5	9.5	5.7	12.3	17.6	8.7	9.4	17.6
26	12.9	S	11.0	11.0	9.2	7.6	14.2	13.1	20.3	8.3	3.8	9.8	12.3	8.6	12.5	7.6	4.1	6.2	1.0	1.4	2.4	4.0	2.0	3.5	8.1	20.3
27	2.8	S	8.3	5.5	8.3	11.8	10.8	12.7	C	C	C	C	C	7.0	3.5	1.5	1.2	6.4	1.8	9.6	3.6	4.7	6.3	12.6	6.6	12.7
28	7.8	S	5.1	6.2	6.8	7.7	9.1	7.6	6.8	7.6	6.6	15.6	3.4	4.5	6.1	4.4	4.8	4.5	7.5	10.6	5.0	5.9	3.7	4.0	6.6	15.6
29	6.0	S	8.6	8.9	11.8	9.6	12.0	11.9	15.2	15.6	9.5	2.6	4.2	13.6	11.6	2.2	3.7	3.5	7.6	1.4	1.8	2.7	6.1	5.7	7.6	15.6
30	6.7	S	4.1	9.5	1.4	8.4	10.5	6.3	6.5	15.5	8.6	2.5	1.6	1.5	1.1	7.2	13.6	9.6	13.4	12.7	6.8	6.4	4.1	6.3	7.1	15.5
31	7.5	S	16.4	12.7	8.9	13.0	13.5	9.1	9.7	9.7	8.5	4.9	5.1	1.6	2.4	3.9	4.2	0.6	1.0	1.6	12.8	2.1	5.3	4.1	6.9	16.4
NO.	31	-	31	31	31	31	31	31	30	29	28	29	30	31	31	31	31	31	31	31	31	31	31	31	704	99.5%
MEAN	6.5	-	7.9	8.2	7.1	8.2	10.8	9.7	7.9	7.1	6.3	5.1	4.4	4.1	3.7	3.7	4.2	3.9	4.6	4.9	5.4	5.6	4.7	4.9		
MAX	13.7	-	29.9	27.3	23.5	22.0	45.4	27.6	23.4	15.6	17.2	15.6	12.3	15.1	12.5	9.6	13.6	9.6	13.4	12.7	12.8	12.3	17.6	12.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	704
Maximum 1-HR Average	45.4 PPB
Maximum 24-HR Average	9.4 PPB
Monthly Calibration	5
Standard Deviation	4.4
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	6.0 PPB

Lagoon NOx (ppb) – May 2025

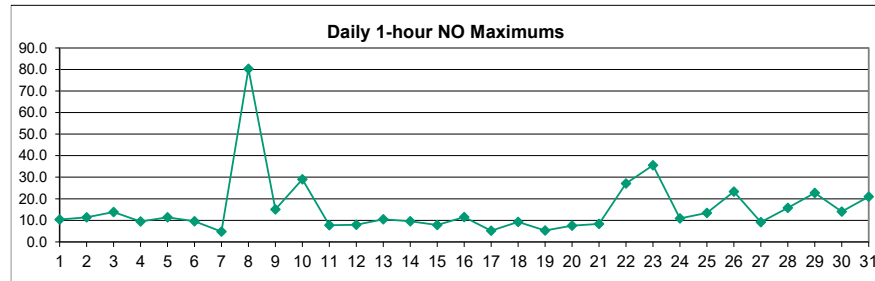
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.3	S	5.3	12.3	8.5	13.0	18.0	15.5	19.6	16.6	11.4	16.4	15.9	5.3	1.3	2.1	2.3	1.3	1.1	2.6	10.0	12.2	6.5	9.0	9.2	19.6
2	6.1	S	11.5	5.6	6.2	6.8	14.5	22.7	17.4	9.5	13.3	15.6	3.7	1.7	1.2	1.6	2.1	2.1	6.3	9.7	8.2	11.1	10.2	6.2	8.4	22.7
3	9.3	S	8.6	7.9	4.0	11.4	9.5	13.0	15.2	7.2	11.6	7.6	7.1	3.3	7.0	23.2	9.0	8.7	8.5	11.1	4.7	8.6	8.4	12.1	9.4	23.2
4	9.6	S	9.9	3.3	1.5	0.9	1.6	3.6	5.3	12.0	2.9	1.8	2.1	2.3	1.4	1.2	1.3	1.9	1.6	2.3	3.0	18.3	4.8	3.0	4.1	18.3
5	11.7	S	18.1	25.6	22.1	28.3	18.9	21.3	23.2	K	K	11.3	5.6	2.2	4.1	6.5	1.3	1.1	1.6	1.8	6.2	10.1	7.0	8.6	11.3	28.3
6	14.1	S	15.6	14.8	13.1	16.7	20.7	11.7	11.9	10.4	K	K	14.2	7.9	10.5	6.0	7.3	2.5	2.2	2.7	2.5	3.7	4.6	8.6	9.6	20.7
7	4.7	S	9.8	7.3	10.5	8.6	11.2	15.4	13.4	15.2	13.2	2.9	1.7	2.4	3.8	4.3	5.7	7.3	9.9	3.7	5.6	11.9	6.2	4.6	7.8	15.4
8	2.3	S	9.7	5.9	2.2	3.2	120.0	44.9	4.8	3.8	7.7	4.0	7.0	6.5	6.9	7.0	6.0	5.4	9.1	6.3	2.0	2.3	3.2	3.6	11.9	120.0
9	10.6	S	8.6	16.0	5.0	9.2	33.9	24.0	13.3	15.1	27.6	15.9	13.7	8.4	3.2	4.5	4.5	6.0	4.0	7.3	6.5	10.8	5.8	4.9	11.2	33.9
10	20.3	S	58.0	56.2	35.0	37.3	43.9	19.7	16.0	10.7	8.8	9.6	4.5	4.2	1.7	3.6	6.4	1.5	3.9	4.2	2.6	1.3	1.3	2.3	15.3	58.0
11	4.2	S	1.8	2.3	5.0	2.8	3.9	7.7	5.5	3.6	3.6	14.2	4.9	1.8	4.7	3.9	2.5	3.3	6.2	10.7	3.1	4.4	8.0	6.3	5.0	14.2
12	3.9	S	2.6	12.9	2.0	2.4	3.2	4.1	7.0	4.6	21.3	15.1	15.1	6.8	4.5	4.7	4.1	4.6	2.1	6.0	4.4	4.5	3.1	3.7	6.2	21.3
13	6.5	S	6.9	6.3	7.4	17.0	15.9	18.9	8.3	7.1	4.9	3.9	2.7	3.3	4.9	10.1	7.5	5.5	6.8	6.8	17.1	10.2	3.2	3.4	8.0	18.9
14	3.1	S	2.7	4.9	4.3	3.7	16.4	8.9	10.1	11.3	6.1	4.4	10.7	8.4	9.1	5.8	2.8	2.4	4.1	11.5	14.8	1.1	1.0	1.0	6.5	16.4
15	1.1	S	8.7	8.5	11.0	13.1	9.4	12.3	6.0	2.7	8.7	6.0	4.2	8.4	10.4	4.7	12.4	8.2	13.1	2.2	8.7	4.8	3.2	3.5	7.4	13.1
16	3.7	S	7.5	13.0	7.9	12.6	19.2	25.4	16.2	10.3	6.5	1.8	2.1	4.2	1.9	4.8	4.3	6.9	3.4	10.3	11.6	10.8	2.8	2.9	8.3	25.4
17	7.0	S	4.5	5.0	3.3	3.2	4.4	7.9	5.0	3.8	2.0	2.2	2.0	2.2	5.5	5.5	6.1	11.0	9.3	2.9	2.8	2.9	3.0	3.2	4.5	11.0
18	8.3	S	6.2	8.2	10.6	12.1	11.6	16.8	14.5	12.4	8.9	4.1	6.1	2.0	1.9	2.5	10.3	5.6	4.6	8.4	6.7	3.0	4.8	7.1	7.7	16.8
19	11.4	S	4.9	3.7	3.6	7.0	8.9	10.4	4.0	7.0	1.5	1.0	1.3	1.3	1.3	1.5	2.0	1.4	1.2	1.0	1.2	1.7	1.8	3.9	3.6	11.4
20	2.3	S	9.5	8.6	5.3	15.3	11.7	13.0	6.2	15.0	10.1	4.0	7.5	4.9	10.4	6.7	6.4	8.9	14.1	5.6	2.2	5.0	2.5	4.1	7.8	15.3
21	17.0	S	14.3	12.7	9.4	9.6	17.3	10.4	10.3	10.5	7.0	4.6	13.8	8.2	1.6	2.7	11.1	10.1	11.2	8.3	13.5	6.4	7.4	3.0	9.6	17.3
22	20.8	S	9.0	13.9	12.1	27.3	42.2	34.4	19.9	16.0	7.9	5.9	6.0	5.7	3.2	10.9	11.2	5.7	9.2	2.3	11.9	9.8	5.7	12.2	13.2	42.2
23	11.3	S	10.7	17.1	21.4	27.8	37.8	41.4	58.7	15.3	8.5	4.4	6.2	8.8	4.3	5.5	3.7	4.3	1.5	7.0	10.2	13.5	7.7	11.3	14.7	58.7
24	6.6	S	8.0	12.9	22.1	20.9	16.2	10.9	19.2	8.3	13.5	21.9	6.1	10.7	4.7	5.9	12.3	12.1	6.3	6.0	7.5	3.3	4.6	3.9	10.6	22.1
25	13.4	S	20.3	14.2	12.5	14.5	19.1	19.7	8.8	23.7	15.4	18.2	17.2	28.2	19.4	10.5	11.3	5.6	16.7	13.2	7.6	13.4	23.1	9.3	15.5	28.2
26	14.0	S	12.5	13.3	14.7	10.7	30.3	29.3	43.3	24.4	6.2	17.2	20.1	14.2	21.0	11.1	6.0	9.1	1.7	2.0	3.0	4.6	2.5	4.3	13.7	43.3
27	3.5	S	11.2	7.3	12.7	18.7	17.7	21.5	C	C	C	C	C	11.5	4.4	1.5	0.8	9.8	1.6	13.1	3.1	4.6	8.9	18.3	9.4	21.5
28	9.4	S	7.4	8.4	10.9	12.6	18.7	14.1	12.0	13.0	10.1	31.1	4.0	5.7	7.8	5.7	5.9	5.1	8.8	12.7	4.6	5.4	3.2	3.6	9.6	31.1
29	6.7	S	10.1	11.2	25.9	20.0	33.1	34.0	37.6	35.6	16.8	3.3	5.7	26.9	18.8	2.2	4.3	4.0	10.1	1.0	1.3	2.8	6.3	5.5	14.0	37.6
30	6.9	S	3.6	13.7	1.0	13.4	15.9	8.0	9.9	27.5	14.9	3.2	1.4	1.5	0.8	13.5	27.3	18.2	26.9	21.8	7.2	6.0	3.7	7.2	11.0	27.5
31	10.2	S	25.8	20.2	12.9	28.0	34.2	18.5	23.2	21.2	16.5	8.2	8.5	1.6	3.0	5.5	5.9	0.1	0.6	1.1	18.5	1.6	6.3	4.5	12.0	34.2
NO.	31	-	31	31	31	31	31	31	30	29	28	29	30	31	31	31	31	31	31	31	31	31	31	31	704	99.5%
MEAN	8.6	-	11.1	12.0	10.5	13.8	21.9	18.0	15.5	12.9	10.2	9.0	7.4	6.8	6.0	6.0	6.6	5.8	6.7	6.6	6.8	6.8	5.5	6.0		
MAX	20.8	-	58.0	56.2	35.0	37.3	120.0	44.9	58.7	35.6	27.6	31.1	20.1	28.2	21.0	23.2	27.3	18.2	26.9	21.8	18.5	18.3	23.1	18.3		



Number of Non-Zero Readings	704
Maximum 1-HR Average	120.0 PPB
Maximum 24-HR Average	15.5 PPB
Monthly Calibration	5
Standard Deviation	9.088
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	9.6 PPB

Lagoon NO (ppb) – May 2025

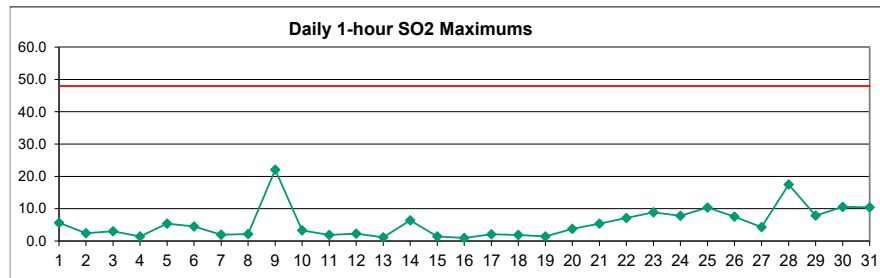
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.3	S	0.7	3.9	0.8	3.2	8.9	7.2	10.4	8.5	4.8	6.9	8.1	2.6	0.7	1.2	1.0	0.8	0.7	0.7	1.6	2.2	0.8	1.6	3.4	10.4
2	1.4	S	4.1	1.1	1.9	1.5	7.7	11.4	8.9	4.0	5.8	7.3	1.7	1.0	0.7	0.9	1.0	0.9	2.1	3.4	1.6	2.0	2.1	0.9	3.2	11.4
3	2.3	S	4.6	2.3	0.7	3.0	2.1	4.4	6.6	2.7	4.6	2.9	2.8	1.2	2.6	13.9	4.2	2.6	2.1	3.3	1.0	2.2	1.8	4.3	3.4	13.9
4	4.2	S	1.0	1.0	0.8	0.5	0.8	1.0	1.6	4.0	1.0	0.9	0.9	1.0	0.8	0.8	0.7	0.8	0.8	0.7	0.9	9.5	1.4	0.7	1.6	9.5
5	4.4	S	4.7	7.6	6.0	11.4	8.2	10.5	9.8	K	K	10.8	2.6	1.1	1.9	3.3	0.8	0.7	0.8	0.8	1.2	2.5	1.0	0.8	4.3	11.4
6	6.6	S	4.6	4.5	4.2	8.2	9.6	4.6	5.5	4.6	K	K	5.6	3.2	4.3	2.2	2.7	0.9	0.8	0.7	0.7	0.6	0.6	3.0	3.7	9.6
7	0.9	S	2.9	1.6	3.9	1.4	3.5	4.8	3.5	4.2	3.3	1.0	0.8	1.2	1.8	1.7	2.1	2.4	3.2	0.9	1.6	2.1	0.7	0.7	2.2	4.8
8	0.7	S	3.4	1.6	0.6	0.8	80.3	17.6	1.7	1.4	3.2	1.5	2.6	2.6	2.6	2.7	2.4	1.8	2.8	1.8	0.7	0.6	0.7	0.7	5.9	80.3
9	0.9	S	2.1	2.7	0.7	2.6	15.1	9.6	5.2	5.9	10.7	6.9	6.5	3.7	1.4	1.7	1.8	2.0	1.1	1.5	0.8	2.7	0.7	0.6	3.8	15.1
10	10.0	S	28.2	29.0	11.8	15.5	21.5	5.9	5.9	3.5	2.8	2.9	1.8	1.6	0.9	1.5	1.9	0.7	1.1	0.9	0.9	0.6	0.7	0.8	6.5	29.0
11	0.9	S	0.7	0.6	1.0	0.7	1.2	2.3	1.9	1.6	1.1	7.7	1.6	0.8	1.9	1.3	0.9	1.0	1.4	3.1	0.9	0.8	0.8	0.8	1.5	7.7
12	0.8	S	0.7	6.2	0.7	0.7	0.8	1.2	2.1	2.0	7.9	4.0	6.3	3.0	1.9	2.0	1.6	1.5	0.8	0.9	0.6	0.8	0.7	0.7	2.1	7.9
13	1.3	S	2.7	1.0	2.4	7.7	6.6	10.5	4.8	3.7	1.9	1.5	1.3	1.5	1.9	4.4	3.2	1.9	2.5	1.0	5.5	2.2	0.7	0.7	3.1	10.5
14	0.8	S	0.8	1.6	1.3	0.9	9.6	4.3	5.4	6.4	2.6	2.3	7.0	3.5	5.1	2.7	0.9	0.9	1.9	3.0	5.4	0.6	0.6	0.6	3.0	9.6
15	0.7	S	0.9	1.1	2.2	7.9	4.1	3.8	2.2	1.3	4.0	2.6	2.0	3.9	4.9	2.1	5.1	4.6	4.3	0.8	2.0	0.8	0.7	0.7	2.7	7.9
16	0.8	S	1.1	5.2	2.7	4.2	5.3	11.5	7.2	4.6	3.0	0.9	0.9	1.4	0.8	1.7	1.5	2.7	1.1	2.6	2.4	2.7	0.6	0.9	2.9	11.5
17	0.8	S	0.8	1.4	1.0	1.0	1.9	3.8	2.2	1.9	1.1	1.1	0.9	1.1	2.4	2.2	2.4	5.2	3.2	0.8	0.6	0.8	0.7	0.8	1.7	5.2
18	1.4	S	2.2	4.0	6.1	3.8	5.2	9.2	7.0	4.7	3.7	1.5	2.4	0.8	0.7	0.9	3.4	1.5	1.4	3.7	1.1	0.6	0.7	0.8	2.9	9.2
19	3.2	S	0.8	0.7	0.9	2.9	4.4	5.2	1.9	3.7	1.0	0.6	0.9	0.8	0.9	0.8	0.9	0.8	0.8	0.7	0.7	0.8	0.7	1.2	1.5	5.2
20	0.7	S	3.9	3.3	1.6	7.5	5.3	6.3	2.8	7.0	4.8	2.0	3.6	2.2	5.0	3.2	3.1	2.1	4.0	1.3	0.8	1.1	0.8	0.6	3.2	7.5
21	6.5	S	3.9	3.9	2.7	2.5	8.3	4.2	4.4	4.2	2.3	2.1	6.2	3.6	1.0	1.3	4.3	3.7	5.3	3.4	3.8	1.8	1.8	0.8	3.6	8.3
22	7.4	S	1.9	2.4	2.4	15.1	27.1	22.1	11.7	8.1	3.1	2.6	3.1	2.6	1.7	4.7	5.3	2.2	3.3	0.8	4.2	1.7	0.7	3.2	6.0	27.1
23	1.6	S	2.5	7.0	8.7	15.0	22.6	23.5	35.6	7.2	3.5	1.7	2.7	3.0	1.7	1.9	1.4	1.7	0.7	2.7	2.6	3.1	1.4	2.8	6.7	35.6
24	0.9	S	1.2	4.4	9.9	9.9	7.7	5.3	10.4	3.6	6.1	10.9	2.6	4.6	1.9	2.4	5.8	4.9	2.0	1.8	1.9	0.8	1.4	0.8	4.4	10.9
25	4.9	S	7.0	5.6	3.7	6.8	11.0	11.1	4.3	12.6	7.0	8.5	8.3	13.4	8.9	4.4	4.8	1.8	7.5	4.0	2.2	1.4	5.9	1.0	6.4	13.4
26	1.4	S	1.9	2.7	5.8	3.5	16.4	16.5	23.3	16.4	2.7	7.7	8.1	6.0	8.9	3.7	2.1	3.1	1.0	0.8	0.8	0.8	0.7	1.0	5.9	23.3
27	0.9	S	3.1	2.0	4.7	7.3	7.2	9.1	C	C	C	C	C	4.8	1.2	0.2	0.0	3.8	0.0	3.8	0.0	0.2	2.9	6.0	3.2	9.1
28	2.0	S	2.6	2.6	4.5	5.3	9.9	7.0	5.6	5.9	3.8	15.8	0.9	1.4	2.1	1.5	1.4	0.9	1.5	2.4	0.0	0.0	0.0	0.0	3.3	15.8
29	1.0	S	1.8	2.7	14.4	10.8	21.4	22.4	22.7	20.3	7.6	0.9	1.8	13.5	7.6	0.2	0.9	0.8	2.8	0.0	0.0	0.3	0.5	0.1	6.7	22.7
30	0.5	S	0.0	4.5	0.0	5.2	5.8	2.0	3.7	12.4	6.6	1.0	0.1	0.2	0.0	6.7	14.1	9.0	13.7	9.3	0.7	0.0	0.0	1.2	4.2	14.1
31	3.1	S	9.8	7.9	4.4	15.3	21.0	9.7	13.9	11.8	8.3	3.6	3.6	0.3	0.9	1.9	2.0	0.0	0.0	0.0	6.0	0.0	1.3	0.6	5.4	21.0
NO.	31	-	31	31	31	31	31	31	30	29	28	29	30	31	31	31	31	31	31	31	31	31	31	31	704	99.5%
MEAN	2.4	-	3.4	4.1	3.6	5.9	11.6	8.6	7.7	6.2	4.2	4.1	3.3	2.9	2.5	2.6	2.7	2.2	2.4	2.0	1.7	1.5	1.1	1.3		
MAX	10.0	-	28.2	29.0	14.4	15.5	80.3	23.5	35.6	20.3	10.7	15.8	8.3	13.5	8.9	13.9	14.1	9.0	13.7	9.3	6.0	9.5	5.9	6.0		



Number of Non-Zero Readings	687		
Maximum 1-HR Average	80.3 PPB		
Maximum 24-HR Average	6.7 PPB		
Monthly Calibration	5	Operational Time	740 HRS
Standard Deviation	5.255	Operational Uptime	99.5 %
		Monthly Average	3.8 PPB

Lagoon SO₂ (ppb) – May 2025

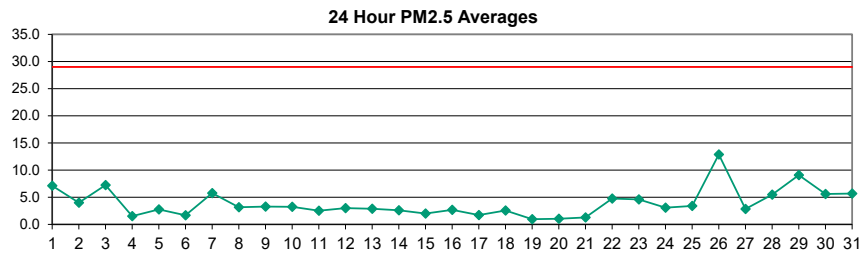
Day	HOURL																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.7	S	0.5	0.7	0.6	0.7	1.0	0.6	0.8	0.9	3.1	3.0	5.7	0.6	0.4	0.6	0.7	0.9	0.8	0.6	0.5	0.6	0.6	0.9	1.1	5.7
2	1.3	S	0.7	0.6	0.7	0.9	0.8	0.8	0.8	0.7	1.9	2.5	0.9	0.5	0.7	0.7	0.7	0.8	0.8	0.9	0.7	0.9	1.2	0.9	2.5	
3	0.8	S	0.8	1.0	0.7	0.7	0.9	1.0	1.7	1.0	3.1	2.8	1.8	1.4	1.3	2.4	1.5	2.7	1.3	1.6	0.9	1.2	0.9	0.9	1.4	3.1
4	0.8	S	1.4	0.6	0.4	0.6	0.6	0.6	0.7	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.3	0.5	0.6	0.5	0.6	0.4	0.5	0.6	1.4
5	0.4	S	0.4	0.5	0.6	0.7	0.5	0.6	0.0	K	K	5.4	0.8	0.2	0.6	1.3	0.3	0.3	0.4	0.5	0.1	0.5	0.4	0.4	0.7	5.4
6	0.5	S	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.4	K	K	4.5	2.2	2.8	1.4	1.2	0.6	0.7	0.7	0.5	0.6	0.5	0.7	1.0	4.5
7	0.7	S	1.7	1.4	1.7	1.0	1.6	1.7	1.7	1.5	0.9	1.0	0.9	1.1	1.4	1.5	1.8	2.0	1.2	0.5	0.8	0.8	0.6	0.8	1.2	2.0
8	0.9	S	1.0	0.9	0.7	0.6	1.7	1.0	0.7	0.7	1.3	0.9	1.4	2.1	2.0	1.8	1.5	1.6	1.0	0.7	1.1	1.0	0.7	0.5	1.1	2.1
9	0.6	S	0.4	0.5	0.3	0.5	0.6	0.4	0.7	1.4	22.1	3.8	1.3	1.2	1.0	1.0	0.8	0.7	0.9	1.3	0.7	0.5	0.8	0.7	1.8	22.1
10	0.6	S	1.0	1.1	0.7	0.9	0.9	0.9	1.1	1.2	1.5	3.3	2.0	1.8	1.1	2.0	1.6	0.8	1.6	0.8	0.8	0.8	0.9	0.9	1.2	3.3
11	0.9	S	0.7	0.7	1.2	0.7	0.8	1.0	1.5	1.9	1.8	1.7	1.4	1.0	0.9	1.1	1.0	1.0	0.9	0.8	0.9	0.8	0.9	1.0	1.1	1.9
12	1.1	S	0.8	0.9	0.9	0.9	0.8	0.9	1.0	1.0	1.4	2.3	1.5	1.0	1.1	1.0	1.0	0.8	0.9	0.8	0.9	0.9	0.9	0.9	1.0	2.3
13	0.9	S	0.8	0.9	0.7	0.9	0.9	1.0	0.8	0.8	1.1	0.9	1.1	0.8	0.8	0.9	1.0	0.9	1.0	0.8	0.8	0.7	0.6	0.8	0.8	1.1
14	0.8	S	0.5	0.6	0.8	0.8	0.9	0.9	1.4	1.0	0.9	1.0	0.8	6.4	2.2	0.9	1.6	1.9	0.9	1.1	1.0	0.8	0.7	0.7	1.2	6.4
15	0.7	S	0.7	0.7	0.8	0.8	0.6	0.7	0.8	0.8	0.8	0.7	0.9	0.9	0.9	1.4	1.4	1.2	1.1	1.0	1.0	0.9	0.6	0.6	0.9	1.4
16	0.7	S	0.6	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.9	1.0	0.8	0.9	0.5	0.0	0.7	0.7	0.8	0.8	0.6	0.7	0.7	0.7	0.7	1.0
17	0.6	S	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	2.1	1.9	1.8	1.1	1.1	0.9	0.8	0.9	0.9	1.0	1.0	2.1
18	1.0	S	0.9	1.0	0.8	0.9	0.9	1.1	1.9	1.7	1.0	1.0	0.9	0.8	0.8	0.8	1.1	0.8	0.8	1.0	1.0	0.6	0.8	0.7	1.0	1.9
19	0.8	S	0.6	0.7	0.7	0.7	0.7	0.8	1.0	1.4	0.9	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.7	0.7	0.9	0.7	0.7	0.8	1.4
20	0.7	S	0.8	1.0	1.4	1.3	1.5	1.0	0.8	3.8	3.5	1.7	1.9	1.7	3.5	1.6	1.9	1.7	0.9	0.8	0.9	0.6	0.6	0.6	1.5	3.8
21	0.8	S	1.1	1.1	0.8	0.9	1.1	0.7	2.3	1.5	1.1	0.6	5.4	3.4	0.8	0.9	1.1	0.7	0.8	0.7	0.6	0.7	0.6	0.7	1.2	5.4
22	0.6	S	0.5	0.8	1.2	2.3	4.1	7.1	3.2	2.1	2.7	1.1	1.0	0.9	0.6	0.8	0.8	0.9	0.8	0.6	0.6	0.6	0.5	0.7	1.5	7.1
23	0.9	S	1.3	2.5	1.9	2.3	4.7	4.7	8.9	3.3	1.1	1.5	2.5	1.2	1.0	1.1	0.9	0.9	0.9	0.9	1.0	0.7	0.7	0.7	2.0	8.9
24	0.7	S	0.6	1.7	4.9	3.2	2.7	2.9	3.0	2.0	4.4	7.8	2.8	4.7	1.6	2.6	4.0	5.4	2.4	1.1	0.8	0.7	0.7	0.8	2.7	7.8
25	3.9	S	3.0	2.6	2.9	2.3	4.3	5.6	2.9	6.7	6.0	8.6	8.1	10.4	8.8	3.1	4.5	1.2	0.9	0.9	1.0	1.1	1.0	0.7	3.9	10.4
26	0.7	S	1.3	1.3	1.9	2.1	3.1	3.8	3.2	2.2	1.6	4.8	7.6	5.4	6.4	3.1	1.5	3.1	0.9	0.8	0.7	0.7	0.8	0.9	2.5	7.6
27	0.8	S	0.7	1.2	2.4	4.3	1.9	0.9	C	C	C	C	C	0.8	0.4	0.0	0.0	1.2	0.0	2.9	0.0	0.0	0.6	2.6	1.2	4.3
28	2.1	S	0.4	1.6	1.6	3.5	2.8	3.0	3.5	1.4	6.4	17.5	0.8	0.3	0.5	0.3	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.1	2.0	17.5
29	0.0	S	2.3	1.6	5.7	3.6	6.3	5.6	7.8	7.9	1.7	0.0	0.9	1.8	5.1	0.0	1.1	0.1	0.0	0.0	0.0	0.2	0.2	0.0	2.3	7.9
30	0.0	S	0.0	0.0	0.0	0.2	1.2	0.0	1.1	6.8	3.2	0.0	0.0	0.0	0.0	4.2	10.5	7.1	7.7	4.4	0.0	0.0	0.2	0.9	2.1	10.5
31	1.1	S	4.0	6.9	3.9	8.9	10.4	4.7	4.9	7.5	5.9	1.7	0.7	0.1	0.9	1.3	1.2	0.1	0.1	0.1	4.9	0.1	0.1	0.0	3.0	10.4
NO.	31	-	31	31	31	31	31	31	30	29	28	29	30	31	31	31	31	31	31	31	31	31	31	31	704	99.5%
MEAN	0.9	-	1.0	1.2	1.4	1.6	2.0	1.8	2.0	2.2	2.9	2.7	2.0	1.8	1.7	1.3	1.6	1.4	1.1	0.9	0.8	0.6	0.6	0.7		
MAX	3.9	-	4.0	6.9	5.7	8.9	10.4	7.1	8.9	7.9	22.1	17.5	8.1	10.4	8.8	4.2	10.5	7.1	7.7	4.4	4.9	1.2	1.0	2.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	679
Maximum 1-HR Average	22.1 PPB
Maximum 24-HR Average	3.9 PPB
Monthly Calibration	5
Standard Deviation	1.874
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	1.5 PPB

Lagoon PM_{2.5} (µg/m³) – May 2025

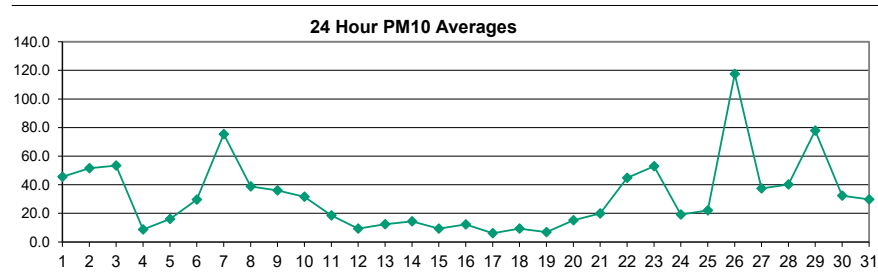
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.2	4.5	2.6	1.8	2.9	3.3	3.3	3.1	3.9	3.6	7.8	10.9	90.8	4.0	1.7	0.2	1.6	2.8	2.8	2.9	1.7	2.0	4.5	5.7	7.1	90.8
2	5.7	5.3	8.6	5.4	3.8	2.9	1.3	2.1	4.3	C	C	C	C	6.6	0.0	3.5	4.5	2.5	1.6	3.5	3.1	2.0	5.3	7.4	4.0	8.6
3	9.6	9.6	5.2	1.3	3.1	3.1	4.9	8.0	7.7	8.8	7.0	6.9	7.4	9.9	7.6	6.2	5.6	8.5	13.2	15.1	10.4	8.2	4.7	1.9	7.2	15.1
4	3.3	2.9	4.1	4.1	0.8	0.0	0.0	0.0	0.0	2.6	2.6	2.0	1.8	1.8	0.9	0.8	0.0	0.0	1.6	2.5	0.1	0.0	1.7	2.3	1.5	4.1
5	3.4	2.8	0.8	7.4	7.7	4.3	4.2	3.1	2.9	K	K	K	K	0.0	0.0	1.8	2.8	0.0	0.0	0.0	0.0	5.5	5.5	2.6	2.7	7.7
6	0.5	0.8	0.8	0.0	0.0	0.9	0.2	2.5	3.5	5.9	K	K	1.8	3.4	0.8	0.0	2.3	5.2	3.3	0.0	0.0	0.0	1.6	3.5	1.7	5.9
7	2.1	0.4	2.9	6.0	2.8	2.8	3.5	8.9	16.1	9.4	10.1	12.1	5.9	2.8	12.7	10.9	10.9	5.5	0.9	2.0	0.8	0.0	5.6	3.1	5.8	16.1
8	1.4	5.7	6.4	8.3	5.4	3.1	2.2	0.8	0.0	0.0	0.0	4.2	4.2	2.5	2.7	4.6	4.5	3.7	8.9	6.2	0.0	0.0	0.1	0.0	3.1	8.9
9	0.0	1.8	2.6	3.6	3.5	2.3	3.6	5.4	5.5	4.0	3.6	4.7	2.8	3.2	5.9	6.3	2.7	0.0	2.6	2.7	0.0	4.3	5.3	2.2	3.3	6.3
10	0.5	0.1	3.6	5.4	6.5	4.4	7.2	7.0	5.2	3.5	3.4	2.6	1.7	2.1	1.5	0.2	2.4	4.1	2.9	5.3	2.5	1.4	3.2	0.7	3.2	7.2
11	0.0	0.0	0.2	1.9	2.4	1.3	1.3	1.9	1.9	1.0	2.6	2.8	18.5	6.6	4.7	1.1	0.0	0.0	1.5	0.9	1.7	3.3	3.3	2.0	2.5	18.5
12	0.0	6.7	6.9	7.0	4.7	3.2	6.5	6.6	7.1	5.4	3.1	1.0	4.0	3.8	2.4	1.7	0.1	0.0	0.0	0.8	0.8	0.0	0.0	0.0	3.0	7.1
13	0.6	1.9	0.6	0.8	1.4	0.0	0.0	0.0	2.9	3.1	0.0	2.3	5.0	5.0	2.1	2.0	9.5	7.5	3.7	6.7	5.2	3.5	3.6	1.8	2.9	9.5
14	2.1	2.5	1.2	1.8	1.6	1.7	1.8	1.6	7.6	5.7	3.2	4.6	4.2	1.2	0.5	1.4	1.5	2.8	1.3	0.0	1.3	4.5	4.5	3.1	2.6	7.6
15	1.7	0.0	0.2	1.2	0.3	1.1	0.3	1.4	2.5	1.5	2.0	1.2	0.1	0.6	0.0	0.7	6.0	4.8	1.7	1.6	6.1	5.1	3.5	4.6	2.0	6.1
16	4.4	4.1	4.8	2.3	2.8	3.7	4.6	7.7	7.0	5.3	3.5	1.2	0.3	1.2	0.7	0.9	1.5	2.7	1.9	0.1	0.0	0.0	0.8	2.6	2.7	7.7
17	3.0	5.9	4.8	4.4	3.3	1.7	1.8	2.7	3.2	1.9	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.4	1.6	0.3	1.3	2.2	2.2	1.7	5.9
18	4.6	4.6	3.2	4.9	5.2	3.9	5.0	6.0	4.9	3.6	3.3	2.4	0.7	0.3	0.0	0.0	0.3	0.5	0.7	1.3	2.0	1.1	0.0	2.3	2.5	6.0
19	4.9	3.9	2.1	1.1	1.3	2.8	2.9	1.2	0.2	1.1	0.0	0.3	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.9
20	0.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.6	4.0	3.8	1.5	0.0	0.8	4.0	4.1	1.7	1.2	0.9	0.0	0.5	0.0	0.0	1.0	4.1
21	0.0	2.3	1.3	1.4	4.8	2.9	0.1	3.3	1.3	0.0	0.7	1.0	1.4	0.0	0.0	0.0	0.3	3.2	1.9	2.0	2.4	0.0	0.0	0.8	1.3	4.8
22	0.3	1.1	1.0	5.0	5.4	4.8	5.7	6.8	5.1	6.7	6.0	3.0	1.2	1.4	4.0	8.5	28.8	6.0	5.0	3.5	1.7	1.5	1.6	0.4	4.8	28.8
23	3.5	4.3	3.4	4.6	4.7	3.5	2.6	2.2	5.4	7.0	6.4	4.6	19.5	0.6	12.7	8.2	3.7	1.9	0.0	3.1	2.3	0.0	2.5	3.9	4.6	19.5
24	5.6	4.8	4.8	4.0	4.8	5.8	6.3	4.8	3.5	3.8	2.9	3.0	4.5	3.3	1.8	0.3	0.0	0.0	0.2	1.5	1.8	2.5	2.0	1.9	3.1	6.3
25	2.3	1.8	2.4	6.0	6.3	3.4	2.0	3.2	6.1	3.4	2.0	3.6	2.8	0.8	0.0	1.7	1.9	1.5	3.5	4.7	5.2	3.5	7.2	6.4	3.4	7.2
26	7.5	6.2	5.3	3.4	2.1	7.8	5.1	3.7	9.1	17.4	9.4	72.9	37.5	27.4	26.5	32.9	19.7	0.0	2.6	1.5	0.0	4.2	3.9	3.2	12.9	72.9
27	2.7	1.2	0.0	0.0	5.2	2.9	2.3	2.8	7.8	6.9	4.1	6.4	2.9	1.0	2.7	2.8	2.3	1.2	4.1	3.2	2.5	3.0	0.0	0.0	2.8	7.8
28	0.0	1.2	3.4	2.2	2.6	2.3	1.8	2.7	5.4	8.0	5.8	5.3	6.4	4.1	17.2	25.8	7.2	4.9	1.6	2.2	3.1	4.4	7.8	6.1	5.5	25.8
29	9.6	7.1	5.2	5.6	7.3	6.0	8.7	10.0	12.1	17.5	15.8	12.5	20.8	16.8	14.5	16.1	X	8.8	6.6	3.6	1.1	0.0	0.0	2.9	9.1	20.8
30	2.9	2.8	2.9	37.1	5.7	3.2	1.7	2.9	8.9	5.2	1.4	5.7	4.3	0.6	1.0	3.1	4.4	5.4	6.0	8.0	5.2	3.0	8.3	4.9	5.6	37.1
31	1.1	4.5	3.8	1.1	3.2	3.3	1.7	6.5	10.8	12.6	8.8	4.4	1.6	1.9	10.5	7.6	3.5	5.9	7.1	4.9	4.8	10.0	10.5	6.1	5.7	12.6
NO.	31	31	31	31	31	31	31	31	31	29	28	28	29	31	31	31	30	31	31	31	31	31	31	31	733	99.1%
MEAN	2.8	3.3	3.1	4.5	3.6	3.0	3.0	3.8	5.2	5.4	4.3	6.6	8.8	3.6	4.4	4.9	4.4	2.9	2.9	3.0	2.1	2.4	3.2	2.7		
MAX	9.6	9.6	8.6	37.1	7.7	7.8	8.7	10.0	16.1	17.5	15.8	72.9	90.8	27.4	26.5	32.9	28.8	8.8	13.2	15.1	10.4	10.0	10.5	7.4		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	633
Maximum 1-HR Average	90.8 UG/M3
Maximum 24-HR Average	12.9 UG/M3
Monthly Calibration	4
Standard Deviation	5.897
Operational Time	737 HRS
Operational Uptime	99.1 %
Monthly Average	3.9 UG/M3

Lagoon PM₁₀ (µg/m³) – May 2025

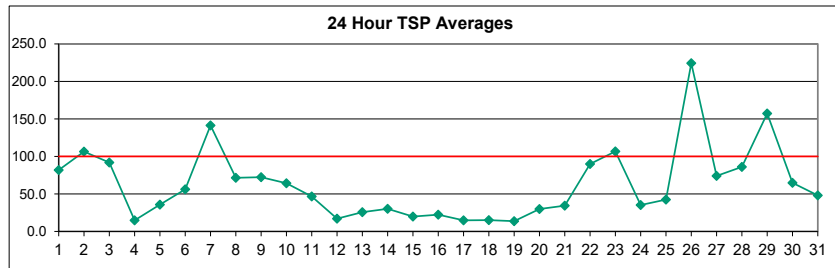
HOUR																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	
1	22.4	15.5	14.6	15.7	16.6	16.2	21.5	39.1	57.7	43.3	92.7	150.9	48.9	89.0	21.7	25.1	67.4	60.9	21.1	23.3	47.6	63.9	52.4	64.3	45.5	150.9	
2	78.4	100.1	231.8	59.4	18.9	9.1	15.5	69.0	67.0	C	C	C	C	37.1	28.1	13.6	13.9	45.5	26.7	27.8	53.0	38.1	29.3	70.1	51.6	231.8	
3	64.7	10.2	18.4	14.4	9.7	12.4	24.3	39.7	32.9	34.7	28.3	43.6	62.8	164.1	60.0	36.0	94.8	56.8	113.8	172.0	122.7	14.0	19.1	32.8	53.4	172.0	
4	20.7	9.1	23.5	20.4	10.5	6.4	3.5	2.3	4.0	5.6	6.4	8.0	7.9	14.9	9.8	4.9	6.9	4.8	1.6	11.0	8.0	6.9	7.5	5.0	8.7	23.5	
5	6.8	7.4	8.3	24.3	24.6	13.7	9.3	20.9	16.2	K	K	K	K	18.9	34.4	53.8	23.2	3.4	0.9	0.7	3.4	27.1	11.3	12.9	16.1	53.8	
6	9.5	9.6	4.8	9.0	9.8	8.4	16.2	28.1	39.5	31.4	K	K	K	36.3	35.5	33.0	119.4	65.6	66.8	25.7	7.3	26.0	9.8	31.3	26.7	29.5	119.4
7	17.6	24.1	13.5	52.9	19.8	15.6	52.3	165.6	336.2	70.5	120.8	145.8	30.6	66.0	248.0	103.6	131.8	38.4	27.6	39.8	23.4	22.7	21.2	20.1	75.3	336.2	
8	16.1	92.2	44.9	87.6	21.8	3.3	10.7	11.5	6.3	6.7	7.9	35.5	39.3	73.6	106.1	75.8	66.4	47.1	80.6	51.6	7.8	9.5	14.6	13.8	38.8	106.1	
9	8.6	20.7	17.5	18.6	18.8	15.5	21.3	60.3	74.3	39.3	44.2	50.6	58.0	64.9	71.2	63.6	32.6	25.4	21.5	23.0	20.2	38.9	30.8	26.2	36.1	74.3	
10	14.5	14.1	15.9	17.4	22.9	26.8	64.5	36.3	22.8	59.9	62.9	20.4	15.8	45.8	38.8	35.0	34.3	50.9	14.4	83.8	8.0	24.6	21.9	7.6	31.6	83.8	
11	12.3	15.9	4.5	11.9	11.4	6.6	5.9	8.9	5.5	17.3	31.6	24.5	113.8	17.1	18.7	13.5	28.6	10.8	7.5	14.0	25.1	13.6	11.0	13.5	18.5	113.8	
12	13.6	12.6	15.3	10.4	10.6	12.4	10.4	13.0	10.4	5.4	10.4	15.1	16.9	13.7	14.7	10.5	7.4	4.6	6.9	3.2	0.0	0.2	2.0	3.4	9.3	16.9	
13	1.4	1.3	4.2	4.1	4.1	6.0	8.3	17.2	17.8	11.5	11.9	32.0	12.1	7.9	7.6	29.8	19.6	18.0	11.1	11.9	7.8	10.4	27.9	11.4	12.3	32.0	
14	17.2	14.2	9.4	4.7	3.6	5.5	4.4	14.1	41.9	35.5	17.9	15.2	16.3	17.4	12.4	53.5	14.1	11.0	10.3	9.3	6.5	4.1	3.5	4.0	14.4	53.5	
15	2.6	3.8	2.0	1.1	1.8	2.3	4.7	5.1	14.8	13.8	11.9	10.1	12.3	16.7	7.1	13.7	9.9	26.9	9.2	22.4	12.1	6.7	4.3	7.9	9.3	26.9	
16	9.9	12.2	9.5	17.1	15.8	3.6	4.0	27.6	18.9	36.5	48.2	13.3	7.5	16.6	0.6	4.3	2.6	2.3	4.0	6.7	9.2	7.3	10.1	5.7	12.2	48.2	
17	6.2	6.7	7.4	6.3	9.6	9.6	9.6	17.7	7.2	16.0	0.0	0.0	0.0	0.0	3.2	2.4	3.0	4.1	13.5	9.6	4.3	3.4	2.0	3.5	6.1	17.7	
18	4.8	12.2	9.1	10.3	14.9	8.8	15.3	16.9	20.6	19.9	17.8	9.6	9.3	4.7	2.1	5.5	4.2	12.1	6.8	3.2	1.1	3.3	5.7	6.8	9.4	20.6	
19	5.1	17.8	13.7	17.3	9.7	15.4	9.8	14.9	6.0	14.4	9.8	4.5	2.2	6.6	3.6	0.0	1.7	2.3	0.0	1.3	1.8	2.9	3.4	1.6	6.9	17.8	
20	4.2	5.2	2.4	15.4	2.5	3.0	4.8	15.8	24.1	18.6	22.5	23.7	11.4	18.2	21.6	44.4	44.2	15.2	31.8	14.9	6.7	2.7	2.9	5.9	15.1	44.4	
21	6.3	13.6	9.1	11.1	26.0	16.5	11.8	44.0	39.2	31.7	45.5	29.0	19.8	19.6	21.3	9.1	18.1	39.1	24.6	15.4	7.8	3.0	7.5	7.2	19.8	45.5	
22	5.7	8.1	16.1	10.0	29.6	26.4	18.0	33.0	42.7	50.0	110.0	21.9	26.1	18.7	42.5	76.2	429.1	55.0	12.8	9.3	4.3	5.3	13.5	10.1	44.8	429.1	
23	10.1	24.0	32.4	18.1	19.5	14.1	31.7	47.1	121.6	107.0	49.3	23.4	288.0	19.9	216.0	88.1	34.3	18.0	12.9	46.7	9.8	8.7	14.9	14.9	52.9	288.0	
24	20.2	11.6	13.5	21.8	25.4	16.2	15.1	15.0	16.0	8.7	27.7	24.5	21.4	23.5	15.5	33.9	35.1	13.9	27.2	28.6	23.7	9.1	6.1	5.4	19.1	35.1	
25	8.2	11.4	16.9	21.2	17.5	17.0	10.1	18.7	20.5	22.2	22.3	43.7	21.2	26.7	19.1	35.6	30.8	34.1	18.6	23.8	44.6	11.0	18.1	15.1	22.0	44.6	
26	17.9	20.5	34.9	14.9	24.9	9.9	18.7	21.2	65.9	206.7	110.0	484.2	474.6	322.5	277.4	350.5	318.8	9.3	10.8	4.4	1.4	6.7	7.4	5.8	117.5	484.2	
27	2.9	4.5	9.6	19.7	9.7	7.6	17.8	57.1	126.6	61.1	52.8	149.7	39.0	23.9	75.2	50.7	51.2	16.2	30.2	5.8	49.4	12.2	6.1	20.1	37.5	149.7	
28	17.3	13.0	12.3	13.3	12.1	19.2	18.4	56.8	81.1	68.0	40.4	28.8	63.4	91.6	55.4	145.1	69.2	30.6	14.0	16.1	38.9	15.1	29.0	15.8	40.2	145.1	
29	46.7	18.5	29.8	30.0	40.2	29.5	41.8	96.5	97.2	132.4	98.8	156.1	286.5	247.5	224.2	128.3	X	20.0	27.3	16.6	3.2	4.7	6.6	8.2	77.9	286.5	
30	21.1	18.1	13.3	16.6	16.1	0.2	18.8	41.9	40.2	10.8	29.8	25.1	8.5	14.1	11.4	35.3	68.9	54.9	74.1	80.6	60.3	9.8	88.4	18.0	32.3	88.4	
31	23.5	15.0	13.5	25.3	12.2	7.0	11.6	19.4	39.0	22.6	6.4	28.4	37.9	37.8	18.0	27.5	63.8	97.7	15.1	13.6	13.4	129.6	17.7	16.5	29.7	129.6	
NO.	31	31	31	31	31	31	31	31	31	29	28	28	29	31	31	31	30	31	31	31	31	31	31	733	99.1%		
MEAN	16.7	18.2	21.7	20.0	15.8	11.7	17.1	34.7	48.8	41.4	40.6	57.8	61.6	50.8	55.4	54.5	59.7	28.9	22.7	25.7	21.0	16.9	17.0	15.5			
MAX	78.4	100.1	231.8	87.6	40.2	29.5	64.5	165.6	336.2	206.7	120.8	484.2	474.6	322.5	277.4	350.5	429.1	97.7	113.8	172.0	122.7	129.6	88.4	70.1			



Number of Non-Zero Readings	726
Maximum 1-HR Average	484.2 UG/M3
Maximum 24-HR Average	117.5 UG/M3
Monthly Calibration	4
Standard Deviation	51.4
Operational Time	737 HRS
Operational Uptime	99.1 %
Monthly Average	32.0 UG/M3

Lagoon TSP (µg/m³) – May 2025

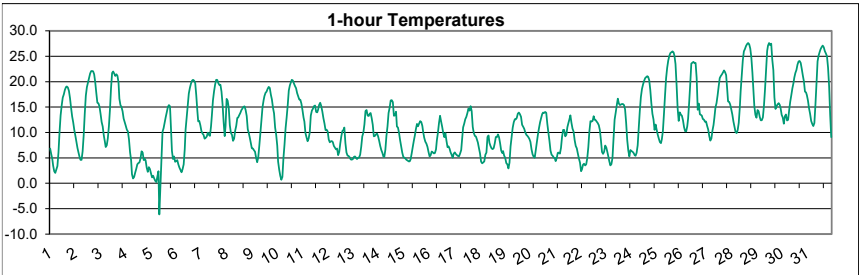
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	52.0	32.8	33.1	18.3	30.8	14.3	33.9	69.2	116.7	86.6	197.7	224.1	78.3	154.8	29.9	44.0	85.2	107.9	42.2	34.3	107.6	121.7	119.0	133.3	82.0	224.1
2	155.1	229.4	433.2	120.9	56.7	30.3	29.5	124.1	122.6	C	C	C	C	68.2	100.0	36.2	44.0	67.0	39.5	50.2	102.1	100.7	81.3	139.1	106.5	433.2
3	130.5	57.4	43.7	25.1	17.5	13.3	33.3	61.5	66.5	56.8	53.0	64.6	108.0	253.3	100.2	65.5	139.7	94.0	190.2	285.0	191.3	32.0	44.9	79.5	92.0	285.0
4	48.7	17.5	56.1	36.1	18.1	16.5	0.0	1.9	3.6	8.0	10.7	11.2	9.8	10.7	10.3	14.2	7.7	6.3	10.5	8.5	8.3	13.1	17.9	9.0	14.8	56.1
5	10.4	22.8	12.4	53.6	23.5	23.2	4.6	21.7	29.9	K	K	K	K	67.1	103.9	121.2	64.3	27.6	8.7	8.7	20.3	47.3	28.9	15.8	35.8	121.2
6	15.4	23.3	14.3	14.1	18.0	15.0	25.4	64.4	73.2	57.6	K	K	69.9	63.1	61.7	209.0	120.2	134.4	45.5	28.5	47.7	22.3	62.5	51.4	56.2	209.0
7	34.0	60.2	31.7	106.0	43.9	39.7	122.3	350.6	646.9	119.2	221.2	278.3	60.4	121.6	406.7	164.2	237.2	74.4	56.1	85.0	38.6	39.8	25.5	28.4	141.3	646.9
8	29.4	140.7	77.0	131.8	45.0	12.3	27.4	20.5	13.7	10.3	17.7	72.2	86.4	138.1	177.4	144.1	119.7	89.6	138.3	111.7	21.4	41.8	26.6	22.2	71.5	177.4
9	28.1	36.9	41.0	25.2	27.6	32.6	33.5	133.2	144.9	96.9	88.9	101.9	140.5	127.3	131.7	115.0	57.5	48.0	40.9	31.2	40.4	71.3	86.0	57.5	72.4	144.9
10	29.5	25.3	32.1	35.8	52.5	46.8	146.5	63.0	39.5	131.9	154.5	37.1	39.8	99.1	74.6	51.4	42.3	98.4	33.5	172.4	17.1	43.9	57.6	19.7	64.3	172.4
11	25.4	22.8	14.2	24.4	17.8	17.6	16.7	18.0	26.3	47.4	69.4	67.4	367.0	47.8	41.2	45.2	63.0	23.0	18.3	29.3	51.1	22.6	25.1	21.1	46.7	367.0
12	23.7	34.8	22.7	16.2	19.0	15.0	24.7	20.6	21.1	12.1	15.2	12.0	25.9	21.9	29.5	18.8	17.9	19.9	12.0	6.4	2.4	3.9	7.5	5.7	17.0	34.8
13	10.6	13.9	8.7	8.8	11.2	10.5	9.7	19.6	32.3	18.1	32.3	60.6	27.7	13.3	17.7	54.1	51.1	37.2	24.9	34.8	18.7	20.9	54.9	26.9	25.8	60.6
14	24.1	16.7	21.0	15.0	11.5	10.6	14.0	16.4	64.7	68.1	33.9	37.3	33.3	45.3	31.6	132.9	39.1	10.7	25.1	22.3	20.6	20.2	8.0	5.7	30.3	132.9
15	10.0	9.2	8.0	7.5	5.7	3.6	5.8	10.1	16.9	18.4	7.0	16.7	19.7	28.0	31.2	40.0	32.9	65.6	30.9	21.2	30.8	21.5	19.5	18.7	20.0	65.6
16	21.7	18.0	13.4	19.4	20.9	9.3	18.8	45.3	30.5	68.9	81.2	34.2	11.1	46.1	15.6	18.6	2.2	8.7	8.2	5.6	6.4	13.8	17.4	6.2	22.6	81.2
17	15.3	15.3	16.9	3.8	16.9	18.3	16.2	22.1	20.3	18.8	6.0	6.1	8.9	6.6	8.5	9.7	21.4	14.6	36.4	24.6	14.5	13.7	11.7	9.8	14.9	36.4
18	9.0	11.2	17.5	12.8	13.3	18.0	13.7	23.7	22.6	40.8	25.3	16.6	12.8	15.0	10.1	6.1	10.9	18.6	7.2	18.0	9.2	7.8	11.2	11.2	15.1	40.8
19	9.5	29.8	25.7	26.6	11.5	13.2	10.4	22.9	18.5	29.3	26.2	12.6	7.0	4.4	3.8	4.7	12.6	14.0	11.6	6.3	4.8	9.2	8.3	6.3	13.7	29.8
20	5.8	5.9	10.0	23.5	7.5	10.2	7.8	24.9	35.2	29.6	51.6	47.7	23.6	44.8	59.8	77.9	83.2	38.2	70.7	25.5	16.0	8.3	8.7	6.1	30.1	83.2
21	10.6	14.5	13.3	16.9	47.9	23.9	19.4	66.4	51.2	45.5	84.0	68.7	42.5	35.9	39.9	13.5	31.1	71.2	40.4	28.0	15.6	20.2	10.3	15.2	34.4	84.0
22	8.3	12.5	10.8	16.9	46.8	31.2	21.4	57.2	65.3	102.4	234.6	39.4	63.0	48.0	92.7	168.4	890.9	113.6	41.7	26.0	16.1	18.2	18.0	19.4	90.1	890.9
23	16.2	34.1	48.6	33.9	25.1	22.8	63.1	77.0	224.7	168.1	90.3	60.4	658.8	38.3	432.3	221.9	74.5	42.9	15.3	115.2	22.5	19.6	34.4	25.2	106.9	658.8
24	28.3	22.2	20.8	37.2	48.0	29.8	22.6	29.1	28.4	25.5	43.3	40.3	25.5	46.7	29.5	67.4	53.3	30.8	63.0	50.0	43.4	32.0	11.3	16.8	35.2	67.4
25	13.6	19.2	42.6	43.3	25.1	24.0	15.0	27.0	31.3	26.7	41.3	85.9	35.4	54.8	39.4	71.0	70.6	64.5	39.3	54.8	107.1	23.7	37.2	26.3	42.5	107.1
26	44.8	31.7	71.0	49.3	47.4	20.9	31.7	36.2	110.3	389.2	182.6	1004.0	887.1	597.5	525.3	660.8	589.6	20.4	37.8	1.8	2.2	7.6	14.6	20.4	224.4	1004.0
27	11.8	15.0	13.5	30.0	18.8	14.9	24.7	101.9	256.9	113.7	89.6	283.4	70.7	56.1	154.8	115.3	100.0	29.6	55.5	21.3	104.3	28.8	22.6	44.4	74.1	283.4
28	35.6	36.6	37.0	33.3	17.8	29.0	37.0	105.0	162.8	112.4	64.9	47.6	140.4	213.3	152.0	318.5	178.7	76.9	45.0	55.7	45.7	36.1	52.8	30.1	86.0	318.5
29	71.0	41.4	58.8	66.0	71.0	66.3	80.2	179.2	213.2	269.8	199.8	340.0	584.2	473.2	476.4	259.3	X	54.1	39.9	26.1	6.2	4.9	12.3	26.3	157.4	584.2
30	47.5	45.1	33.1	36.2	25.8	8.4	36.1	79.4	61.6	27.8	63.9	44.7	26.0	26.1	33.0	57.0	138.3	120.3	140.7	154.1	118.7	30.0	152.5	50.5	64.9	154.1
31	44.5	26.3	32.6	52.1	16.3	13.9	24.9	31.9	48.2	36.5	33.2	58.3	80.1	68.6	37.2	59.9	113.6	90.6	22.7	33.3	34.2	127.2	31.0	38.7	48.1	127.2
NO.	31	31	31	31	31	31	31	31	31	29	28	28	29	31	31	31	30	31	31	31	31	31	31	31	733	99.1%
MEAN	32.9	36.2	42.4	36.8	27.7	21.1	31.3	62.1	90.3	77.1	79.3	113.3	129.1	97.9	111.5	109.2	116.4	55.3	44.9	50.8	41.5	33.0	36.1	31.8		
MAX	155.1	229.4	433.2	131.8	71.0	66.3	146.5	350.6	646.9	389.2	234.6	1004.0	887.1	597.5	525.3	660.8	890.9	134.4	190.2	285.0	191.3	127.2	152.5	139.1		



Number of 24HR Exceedences	5
Number of Non-Zero Readings	732
Maximum 1-HR Average	1004.0 UG/M3
Maximum 24-HR Average	224.4 UG/M3
Monthly Calibration	4
Standard Deviation	100.4
Operational time	737 HRS
Operational Uptime	99.1 %
Monthly Average	62.3 UG/M3

Lagoon Temperature (°C) – May 2025

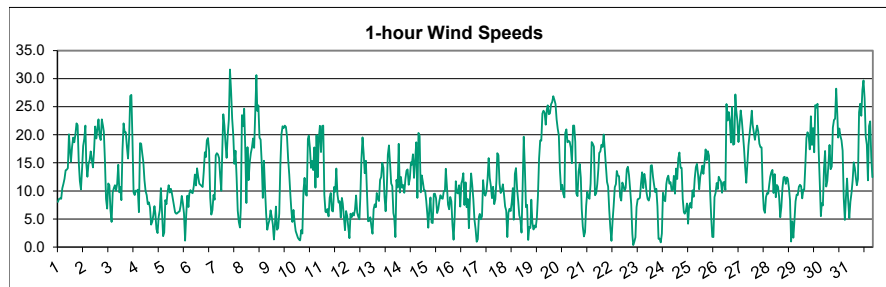
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	6.8	5.7	4.8	3.5	2.4	2.0	2.7	3.4	6.1	10.1	13.4	15.3	16.9	17.5	18.4	18.9	19.1	18.8	18.2	16.8	14.9	13.2	12.0	10.5	11.3	19.1
2	9.3	8.1	6.9	6.0	5.3	4.6	4.6	6.3	9.5	13.7	17.3	18.9	K	20.7	21.6	22.1	22.1	22.0	21.5	19.9	17.8	15.9	15.7	15.1	14.1	22.1
3	13.7	12.0	11.2	9.5	8.2	7.1	7.5	8.9	11.2	14.5	18.8	21.7	22.0	21.6	21.1	21.4	21.1	19.8	16.6	15.4	15.0	14.2	12.7	12.0	14.9	22.0
4	11.3	10.6	10.2	8.6	6.1	4.5	1.8	0.9	1.2	2.1	2.9	3.7	4.0	4.1	4.9	6.3	6.1	4.6	4.8	4.5	3.1	2.2	3.2	2.8	4.8	11.3
5	2.0	1.2	1.5	1.0	0.5	0.2	1.3	2.4	-6.1	K	K	10.1	10.9	11.9	13.0	14.0	15.0	15.4	15.1	10.4	6.4	4.8	5.3	4.2	6.4	15.4
6	4.4	4.6	3.7	3.1	2.6	2.2	2.8	3.7	6.7	10.6	K	K	17.7	18.8	19.6	20.2	20.4	20.2	19.7	17.3	14.3	12.2	12.3	11.4	11.3	20.4
7	10.3	9.8	9.5	8.8	8.9	9.2	9.9	9.6	9.3	11.2	13.4	16.3	18.0	19.4	20.3	20.4	19.7	19.4	19.4	18.0	15.6	12.1	9.3	11.3	13.7	20.4
8	16.6	16.2	14.8	11.4	9.9	9.5	8.3	8.8	10.3	11.3	12.9	12.9	13.4	13.9	14.4	14.7	15.0	15.1	14.4	13.2	10.6	9.8	8.8	7.8	12.3	16.6
9	6.9	6.8	6.5	6.2	5.0	4.2	5.1	7.4	9.9	12.4	15.0	16.3	17.2	17.8	18.1	18.6	19.0	18.8	17.5	16.5	14.9	13.8	11.0	9.5	12.3	19.0
10	7.4	4.3	2.7	1.5	0.7	1.2	5.0	7.6	10.9	13.0	15.4	18.3	19.3	19.9	20.4	20.2	19.6	19.1	18.7	17.8	17.1	16.5	16.4	15.7	12.9	20.4
11	14.4	12.9	12.2	9.9	9.0	8.3	8.8	10.0	13.3	14.3	14.7	15.2	15.3	14.1	13.9	14.5	15.5	15.9	15.2	14.1	12.8	11.8	10.5	10.6	12.8	15.9
12	10.2	8.6	8.1	8.2	8.3	8.1	7.3	7.0	6.7	6.8	5.5	6.2	7.8	9.3	10.3	10.5	11.0	7.9	6.0	5.4	5.4	5.1	4.7	4.6	7.5	11.0
13	4.8	5.2	5.3	5.0	4.8	5.0	5.1	5.6	7.2	9.2	10.0	11.6	14.2	14.4	13.3	13.2	13.7	13.8	12.8	11.5	9.2	9.3	9.6	9.8	9.3	14.4
14	9.2	8.4	7.4	6.5	6.0	5.2	5.2	6.6	9.3	11.2	13.8	14.9	16.3	16.4	16.0	13.3	13.4	14.1	11.2	11.0	9.9	8.5	7.3	6.0	10.3	16.4
15	5.2	5.0	4.8	4.6	4.5	4.3	4.3	4.7	5.8	7.1	8.3	9.4	10.7	11.7	11.2	11.7	12.2	12.1	11.3	10.1	8.9	8.2	7.8	7.2	8.0	12.2
16	6.2	5.3	5.5	6.2	6.1	5.9	6.0	6.7	8.4	10.0	11.9	13.3	12.2	11.1	9.9	9.1	9.9	8.4	7.1	7.3	6.8	6.1	5.6	5.0	7.9	13.3
17	5.8	6.1	5.7	5.5	5.3	5.3	5.9	6.5	9.1	11.0	11.7	12.6	13.1	13.8	14.7	14.3	15.2	14.2	11.1	9.9	9.3	9.2	8.7	8.0	9.7	15.2
18	6.9	5.9	4.3	3.9	4.1	4.3	5.6	6.1	9.1	9.4	8.0	7.3	6.9	6.7	6.9	7.9	9.1	9.1	9.6	9.1	7.9	6.5	5.9	6.3	7.0	9.6
19	5.5	5.0	4.0	3.7	2.9	4.1	7.2	9.1	10.9	12.0	12.6	12.6	12.9	13.7	13.9	13.6	13.1	11.5	11.1	10.7	10.0	9.5	9.3	9.0	9.5	13.9
20	8.7	8.1	6.7	5.7	5.3	5.0	6.5	8.0	9.6	10.8	12.0	12.8	13.6	13.9	13.8	14.1	13.9	11.7	10.0	8.4	6.4	5.6	5.4	5.1	9.2	14.1
21	4.9	4.3	4.9	6.0	6.0	5.8	7.0	9.1	10.5	10.5	9.2	9.5	11.1	11.9	12.5	13.4	11.9	10.7	10.2	8.5	7.3	6.9	5.8	4.9	8.5	13.4
22	4.0	2.4	2.7	3.7	3.8	3.5	3.7	4.9	7.1	10.2	12.2	12.2	12.3	13.2	12.5	12.5	12.2	11.9	11.4	10.5	8.4	6.2	5.8	6.2	8.1	13.2
23	7.4	7.1	6.2	5.2	4.3	3.5	3.8	5.0	8.8	12.5	13.9	15.3	16.7	15.7	15.4	15.5	15.6	15.6	15.4	14.6	11.9	8.5	6.5	5.3	10.4	16.7
24	6.5	6.3	6.2	6.0	5.5	5.4	6.0	7.5	10.9	14.3	17.0	18.5	19.4	20.2	20.7	20.9	21.1	21.0	20.3	18.4	15.7	13.7	12.6	10.5	13.5	21.1
25	11.5	10.5	9.5	8.8	8.1	7.9	8.7	10.3	13.7	17.3	20.7	22.7	24.2	25.1	25.6	25.8	26.0	25.7	25.1	23.5	19.4	14.8	12.3	13.9	17.1	26.0
26	13.5	13.3	12.4	11.0	10.2	10.2	11.2	12.8	16.0	19.6	23.6	23.8	23.9	23.6	23.7	20.7	14.5	15.7	13.6	13.5	13.3	12.7	12.5	12.1	15.7	23.9
27	12.1	11.3	10.6	9.3	8.4	8.8	10.4	11.5	12.9	14.9	15.8	17.3	19.0	20.7	21.1	21.4	21.8	22.2	21.9	21.3	18.5	16.1	16.0	15.5	15.8	22.2
28	14.6	13.5	12.2	11.1	10.1	9.9	10.4	11.9	14.9	18.2	21.1	24.2	26.0	26.4	27.0	27.4	27.6	27.3	26.5	24.7	21.8	18.1	15.2	13.5	18.9	27.6
29	12.9	14.4	14.2	13.1	12.4	12.4	13.0	15.3	18.5	22.3	26.0	27.1	27.6	27.2	27.5	24.3	22.3	16.9	14.6	15.2	15.6	15.8	15.4	14.8	18.3	27.6
30	13.5	12.9	11.7	13.2	13.6	12.4	12.5	14.4	16.1	17.3	18.7	19.7	20.8	21.7	22.3	23.4	24.0	24.1	23.7	22.5	21.2	20.1	18.0	17.9	18.1	24.1
31	17.3	16.3	14.8	13.7	12.3	11.7	11.2	11.9	15.5	19.7	24.0	25.2	25.9	26.4	26.8	27.1	26.7	26.0	25.5	25.0	22.8	19.1	13.4	9.1	19.5	27.1
NO. MEAN MAX	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.3%
	9.2	8.5	7.8	7.1	6.5	6.2	6.7	7.9	9.8	12.6	14.5	15.5	16.3	16.9	17.1	17.1	17.0	16.4	15.5	14.3	12.6	11.2	10.2	9.5		
	17.3	16.3	14.8	13.7	13.6	12.4	13.0	15.3	18.5	22.3	26.0	27.1	27.6	27.2	27.5	27.4	27.6	27.3	26.5	25.0	22.8	20.1	18.0	17.9		



Number of Non-Zero Readings	739
Maximum 1-HR Average	27.6 C
Maximum 24-HR Average	19.5 C
Monthly Calibration	0
Standard Deviation	6.098
Operational Time	739 HRS
Operational Uptime	99.3 %
Monthly Average	11.9 C

Lagoon Wind Speed (km/hr) – May 2025

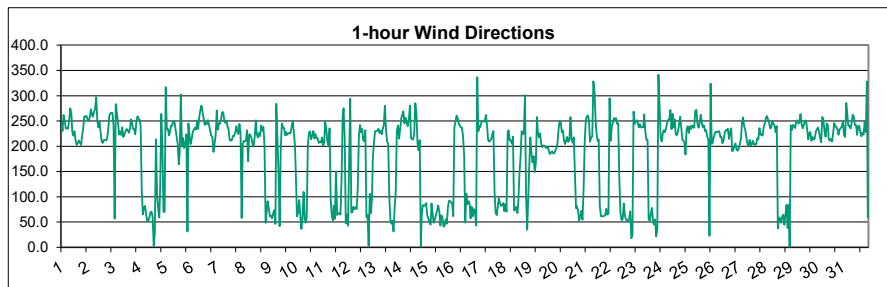
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	8.0	8.6	8.7	8.6	10.5	11.3	12.1	13.7	13.8	14.1	20.1	17.5	15.2	17.9	19.5	18.6	20.0	22.0	21.7	15.3	11.8	10.3	13.9	18.0	14.6	22.0
2	19.3	21.6	14.9	12.5	14.9	15.4	17.0	15.5	14.2	17.2	21.5	19.3	K	22.7	19.7	19.1	22.7	21.6	20.6	15.4	8.6	6.9	11.3	11.0	16.7	22.7
3	6.5	4.5	9.7	10.5	11.0	10.1	11.2	14.6	9.7	10.7	8.3	17.3	22.0	20.4	20.5	17.8	15.8	19.6	26.9	27.1	19.1	9.7	9.3	10.0	14.3	27.1
4	9.9	10.2	6.2	18.5	18.4	16.7	15.1	11.9	10.0	9.3	7.6	8.0	7.0	4.0	4.5	5.7	7.3	6.0	3.2	2.5	5.4	6.6	10.5	6.3	8.8	18.5
5	2.0	2.6	8.3	7.6	9.8	11.0	9.7	10.4	9.7	K	K	6.2	5.9	6.0	6.3	6.3	7.4	9.1	7.8	6.0	1.2	5.7	9.2	7.1	7.1	11.0
6	9.5	10.1	9.7	9.6	10.8	12.9	11.0	14.0	12.5	11.3	K	K	10.7	13.4	16.9	16.0	19.0	19.4	17.2	8.8	5.8	6.6	9.3	8.5	12.0	19.4
7	16.3	16.7	16.5	15.9	12.6	10.0	18.0	23.6	21.7	18.4	15.9	20.0	22.7	31.6	27.8	22.8	19.8	14.8	17.2	12.4	6.5	4.4	3.5	7.0	16.5	31.6
8	23.5	21.5	24.6	17.4	7.8	17.8	11.9	15.1	16.7	17.7	19.3	17.7	24.1	30.6	24.3	25.2	19.5	19.1	15.1	8.7	15.4	10.3	5.9	3.1	17.2	30.6
9	4.1	4.8	6.5	5.4	4.0	1.3	3.7	7.2	3.1	3.4	6.0	14.7	20.1	21.5	21.2	21.6	21.4	19.6	15.7	12.9	9.4	6.8	4.5	6.6	10.2	21.6
10	4.4	2.9	2.2	1.7	1.4	1.2	3.0	2.4	10.0	12.3	9.4	9.2	19.2	19.9	17.7	14.1	15.3	13.7	17.7	10.6	19.9	12.5	19.2	21.6	10.9	21.6
11	16.9	21.5	21.6	9.3	6.3	6.2	6.8	5.5	8.8	9.6	6.5	6.3	10.7	9.9	14.0	9.4	7.9	8.2	5.2	8.7	7.7	5.4	3.0	6.4	9.3	21.6
12	5.5	3.5	1.6	5.9	5.3	6.0	5.6	6.7	9.2	6.1	5.4	4.9	8.8	15.6	19.5	16.7	13.2	15.4	9.8	4.6	4.7	5.3	3.7	2.4	7.7	19.5
13	6.7	7.6	7.1	9.6	8.7	8.2	11.9	12.5	15.0	14.1	9.0	6.4	10.2	16.5	18.1	14.9	11.3	10.9	6.1	5.2	1.8	11.9	10.6	18.4	10.5	18.4
14	9.7	12.5	10.6	11.0	9.6	12.1	13.6	13.8	11.1	12.2	15.1	14.6	16.5	12.3	15.6	18.7	8.7	20.3	19.8	9.8	12.8	11.5	10.1	10.1	13.0	20.3
15	8.2	5.7	3.5	6.9	8.8	4.3	4.3	9.5	9.5	8.7	6.1	6.7	8.2	9.2	8.7	8.6	10.0	10.0	14.0	10.8	7.6	6.8	8.9	8.1	8.0	14.0
16	4.0	1.3	5.5	11.7	9.7	9.5	11.0	7.2	11.3	11.9	13.1	7.5	11.5	7.1	8.6	3.4	9.1	13.1	11.0	8.5	4.9	3.3	1.0	1.4	7.8	13.1
17	5.4	5.9	4.9	5.5	11.9	9.6	9.1	9.9	12.1	15.9	12.3	10.8	8.7	10.7	7.6	8.5	11.9	16.7	16.4	11.3	9.6	10.1	11.2	9.4	10.2	16.7
18	7.2	6.5	1.8	6.1	6.8	6.4	8.0	10.5	4.9	13.0	14.0	10.4	8.2	5.7	4.9	2.6	10.7	19.6	14.2	7.1	7.5	1.3	3.6	3.4	7.7	19.6
19	8.4	4.3	3.1	3.8	3.5	5.2	9.2	15.7	19.0	18.9	23.8	24.3	23.9	21.8	24.5	25.2	23.6	23.8	25.4	25.8	26.9	26.2	25.5	22.8	18.1	26.9
20	21.1	19.9	13.7	10.3	11.1	9.5	8.8	20.3	21.0	18.6	18.9	18.7	17.6	14.9	21.6	21.6	18.7	9.5	9.1	13.4	14.8	12.3	6.8	3.6	14.8	21.6
21	1.9	2.7	7.3	9.8	9.0	8.6	11.3	18.7	18.4	17.9	9.2	9.5	11.2	13.9	16.8	17.0	18.2	17.8	20.0	17.3	14.4	11.6	10.8	6.6	12.5	20.0
22	3.3	1.1	4.6	7.4	10.7	11.2	13.5	12.7	12.7	8.9	8.3	11.5	10.9	10.0	10.5	13.8	14.3	12.8	10.3	7.6	2.4	0.4	0.9	1.7	8.4	14.3
23	7.1	8.5	8.6	8.8	11.3	13.3	10.5	13.0	11.8	9.7	8.6	8.3	9.1	14.5	14.6	12.5	11.1	9.8	10.4	7.3	1.5	1.5	0.8	2.4	8.9	14.6
24	9.7	8.5	8.2	11.2	12.2	12.7	11.3	11.6	10.1	10.2	12.7	9.5	14.0	12.1	15.8	16.8	14.1	14.1	8.6	6.2	5.9	6.5	7.8	4.1	10.6	16.8
25	7.4	7.8	7.0	10.1	9.0	12.2	14.2	14.8	12.9	10.3	12.6	13.5	14.5	13.0	15.0	17.4	15.5	17.1	16.3	10.0	5.5	1.8	1.8	8.9	11.2	17.4
26	9.7	11.4	10.3	12.5	12.0	11.7	9.7	11.5	11.6	10.2	25.5	22.6	24.1	22.5	18.6	25.0	18.2	18.3	27.2	24.4	22.5	18.7	21.7	24.3	17.7	27.2
27	22.6	20.1	17.6	14.2	11.4	14.8	18.1	20.1	22.0	24.3	21.7	20.4	19.1	20.5	21.6	20.6	18.4	17.8	17.8	10.3	6.7	6.1	8.9	9.6	16.9	24.3
28	9.5	11.3	12.5	13.3	13.7	9.6	13.0	8.9	11.1	10.7	8.9	5.3	7.1	10.5	12.4	12.5	11.3	12.4	12.2	10.6	8.3	1.0	4.6	1.7	9.7	13.7
29	4.7	8.1	9.3	9.3	10.7	11.1	10.9	8.7	10.2	10.2	14.5	19.4	20.5	19.8	17.4	23.3	18.2	21.2	16.9	25.3	24.8	25.5	17.3	11.5	15.4	25.5
30	5.5	7.8	7.4	13.9	17.1	10.8	11.8	14.7	18.2	13.9	14.3	21.3	22.6	22.9	28.2	23.7	19.5	21.1	19.8	19.0	17.1	8.7	4.8	9.0	15.5	28.2
31	12.2	8.3	5.1	8.1	9.7	11.9	15.1	14.1	12.6	11.0	12.1	24.0	25.5	23.4	28.0	29.7	26.5	19.7	18.2	11.9	21.5	22.4	16.0	12.4	16.6	29.7
NO.	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.3%
MEAN	9.4	9.3	9.0	9.9	10.0	10.1	11.0	12.5	12.7	12.7	13.1	13.5	15.0	16.0	16.8	16.4	15.4	16.0	15.2	12.1	10.7	9.0	8.9	8.9		
MAX	23.5	21.6	24.6	18.5	18.4	17.8	18.1	23.6	22.0	24.3	25.5	24.3	25.5	31.6	28.2	29.7	26.5	23.8	27.2	27.1	26.9	26.2	25.5	24.3		



Number of Non-Zero Readings	739
Maximum 1-HR Average	31.6 KM/HR
Maximum 24-HR Average	18.1 KM/HR
Monthly Calibration	0
Standard Deviation	6.21
Operational Time	739 HRS
Operational Uptime	99.3 %
Monthly Average	12.2 KM/HR

Lagoon Wind Direction (°) – May 2025

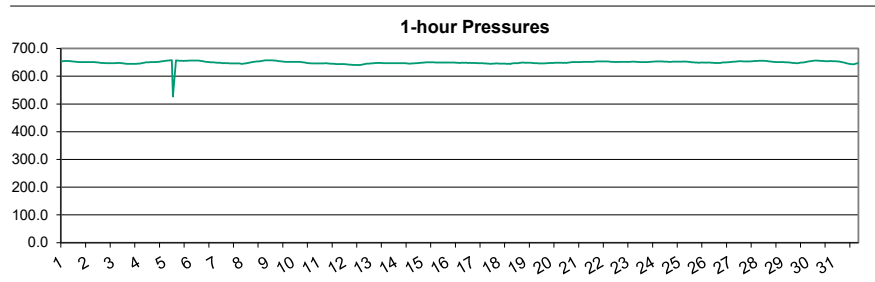
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	246.7	230.1	261.7	250.4	235.1	236.2	234.5	250.9	275.0	265.6	229.5	220.8	229.9	211.9	202.3	206.5	211.2	206.7	202.4	219.3	234.1	259.0	258.6	260.3	230.7	275.0
2	253.2	250.2	257.0	273.1	264.6	258.6	267.9	274.3	297.3	249.7	237.4	247.6	K	210.2	206.4	212.2	212.4	211.3	215.2	233.1	260.0	265.6	266.4	265.7	242.8	297.3
3	240.7	56.8	283.3	264.9	247.4	223.0	229.0	222.3	237.3	218.2	223.2	229.8	234.0	231.4	226.6	234.0	253.2	246.1	234.4	234.0	223.5	249.2	259.4	254.4	237.1	283.3
4	252.2	239.2	114.2	65.1	78.5	81.7	63.8	51.4	53.6	59.8	69.5	70.3	60.4	2.3	29.0	213.5	105.2	75.7	58.7	118.1	264.3	200.8	70.1	70.0	72.5	264.3
5	317.1	233.9	234.3	221.4	228.0	240.8	240.8	249.3	249.7	K	K	204.2	164.1	188.4	302.6	200.3	216.6	196.6	203.6	223.5	31.1	245.1	223.7	204.0	225.5	317.1
6	214.3	228.8	232.8	237.0	233.4	251.4	234.0	257.7	271.0	280.6	K	K	241.9	246.2	243.8	251.9	241.9	230.5	220.8	218.6	188.6	204.8	222.8	270.8	239.6	280.6
7	232.9	244.0	244.6	253.3	267.0	267.1	249.5	245.9	250.8	238.8	233.7	212.5	210.9	212.2	220.5	220.2	227.3	239.5	229.8	223.9	243.7	226.9	57.9	205.5	233.0	267.1
8	210.2	209.3	212.6	231.4	170.4	223.8	222.7	216.4	204.3	200.1	220.4	251.4	224.2	217.6	226.3	219.9	241.2	230.5	238.2	199.4	48.4	67.0	90.9	77.7	217.9	251.4
9	61.2	62.4	57.1	67.0	73.1	45.9	283.8	216.7	148.2	41.8	192.9	245.0	237.3	236.0	221.3	228.0	222.2	225.7	226.4	226.0	238.3	249.9	229.0	201.9	226.2	283.8
10	146.2	61.0	68.3	93.8	64.0	36.2	56.7	109.4	58.4	48.7	59.4	200.7	226.5	229.3	214.0	221.6	230.0	215.4	223.9	216.1	216.1	206.6	209.1	207.3	210.1	230.0
11	217.1	200.6	208.1	248.8	235.5	209.1	202.3	235.5	94.1	63.2	52.4	82.5	56.3	150.2	63.7	67.1	67.0	64.6	134.9	259.3	275.0	218.3	47.0	64.4	161.7	275.0
12	42.9	168.9	294.0	68.7	70.0	79.8	75.1	78.9	75.5	117.9	220.0	242.2	227.5	234.3	212.7	210.1	231.5	60.2	64.3	2.0	105.8	67.2	97.1	177.9	146.6	294.0
13	208.2	229.7	230.0	230.8	234.6	226.1	230.8	223.4	233.9	241.0	280.0	233.5	209.5	204.7	98.7	53.7	46.5	52.7	31.1	76.9	110.4	231.0	240.9	214.9	219.3	280.0
14	235.1	255.6	262.0	269.1	245.3	256.2	245.8	239.7	253.0	280.5	215.2	214.6	212.8	225.0	285.2	266.9	207.0	191.7	212.1	1.2	65.2	83.4	82.2	83.2	236.7	285.2
15	87.3	62.2	56.9	48.5	44.7	86.7	66.3	48.3	55.3	63.3	72.3	82.7	71.8	43.1	63.2	60.2	40.9	42.6	55.2	46.3	79.6	91.7	91.3	89.0	62.6	91.7
16	86.4	61.7	236.5	248.9	260.8	255.2	244.1	240.8	237.4	236.6	219.7	182.7	48.7	106.0	85.2	91.2	84.5	57.3	79.8	61.5	75.4	71.8	43.0	336.8	179.9	336.8
17	229.6	240.1	238.1	247.7	249.4	250.8	248.2	261.7	242.0	212.6	209.2	210.7	214.0	224.0	230.1	108.0	67.6	63.7	81.7	96.6	87.4	82.2	83.2	87.3	183.7	261.7
18	71.0	85.3	70.9	225.9	231.6	211.5	211.1	205.0	218.8	72.3	74.9	79.9	67.7	89.6	144.6	177.9	229.7	224.0	224.8	301.3	99.4	34.8	88.2	156.2	161.9	301.3
19	217.6	187.6	168.3	180.6	148.7	166.0	257.8	227.9	217.2	225.4	205.6	198.2	201.0	201.0	197.3	196.8	199.5	192.4	184.4	187.2	185.8	186.0	191.7	198.0	257.8	
20	196.6	203.8	231.6	249.9	247.7	227.5	231.2	210.8	204.1	212.9	218.1	208.7	212.6	257.4	213.3	206.8	217.5	143.8	77.3	81.2	72.6	52.6	61.7	71.9	206.6	257.4
21	54.6	114.1	207.7	251.9	258.3	261.2	252.0	209.2	216.8	219.3	328.4	309.5	251.8	226.4	210.9	213.4	81.9	61.5	61.5	61.0	62.5	63.7	76.1	64.7	197.1	328.4
22	66.2	295.1	211.0	239.4	246.3	255.6	251.3	255.8	244.4	245.2	134.8	67.4	54.1	54.7	86.6	63.0	55.6	52.2	52.5	56.0	71.1	18.1	23.9	268.4	53.0	295.1
23	244.5	248.8	251.9	246.5	237.4	243.8	236.7	238.1	237.8	263.0	229.4	213.2	212.5	55.5	52.5	67.1	77.6	49.8	45.1	54.8	21.6	36.5	341.5	280.4	246.1	341.5
24	216.8	209.5	226.3	231.9	227.5	234.6	245.4	252.1	253.0	271.8	233.9	263.9	237.2	253.5	223.4	222.0	228.4	243.3	258.5	236.5	213.0	211.1	207.3	183.6	234.7	271.8
25	234.2	239.5	226.2	239.3	234.3	241.0	237.6	236.2	269.2	272.2	243.7	236.6	247.4	262.5	245.4	237.9	241.1	229.7	231.4	218.9	212.9	22.8	324.1	204.6	240.2	324.1
26	206.0	217.6	225.9	229.0	228.1	228.8	229.7	217.8	218.1	205.9	210.8	224.9	231.8	230.9	234.7	214.4	228.4	235.4	190.2	192.3	199.8	205.7	193.0	191.1	214.4	235.4
27	195.9	205.6	216.1	245.7	257.1	239.3	232.5	217.4	205.2	200.1	212.4	201.8	203.8	210.9	203.4	203.2	203.8	215.8	213.3	235.9	222.6	223.8	221.1	237.7	214.1	257.1
28	244.1	256.0	259.6	252.4	244.8	234.9	237.2	249.9	244.9	240.9	227.4	239.9	37.1	58.8	57.0	48.3	60.6	64.2	44.1	63.8	83.9	38.1	84.0	1.0	272.1	259.6
29	241.8	232.0	242.7	238.9	236.1	249.6	251.2	244.7	247.9	263.5	243.0	235.3	242.1	250.3	251.1	232.7	213.3	225.4	228.4	210.7	218.1	213.1	215.0	228.8	232.4	263.5
30	233.9	236.9	229.4	217.4	207.7	257.9	252.1	229.6	218.6	245.0	240.6	213.7	210.8	214.6	209.7	226.7	245.7	238.8	238.3	231.8	222.8	233.2	236.1	238.4	227.7	257.9
31	249.7	221.7	218.1	285.8	261.9	240.9	240.7	235.2	245.0	262.2	259.0	241.7	241.9	222.1	239.2	240.8	227.8	219.7	227.0	222.6	248.4	227.9	328.2	58.9	240.7	328.2
NO.	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.3%
MEAN	192.1	193.2	208.9	214.7	208.7	210.4	218.1	214.6	209.0	200.6	199.9	202.2	184.1	185.8	183.9	181.2	174.7	161.5	160.9	161.6	157.6	154.4	166.4	175.8		
MAX	317.1	295.1	294.0	285.8	267.0	267.1	283.8	274.3	297.3	280.6	328.4	309.5	251.8	262.5	302.6	266.9	253.2	246.1	258.5	301.3	275.0	265.6	341.5	336.8		



Number of Non-Zero Readings	739
Maximum 1-HR Average	342 degrees
Maximum 24-HR Average	272 degrees
Monthly Calibration	0
Standard Deviation	76.31
Operational Time	739 HRS
Operational Uptime	99.3 %
Monthly Average	188.3 degrees

Lagoon Pressure (mmHg) – May 2025

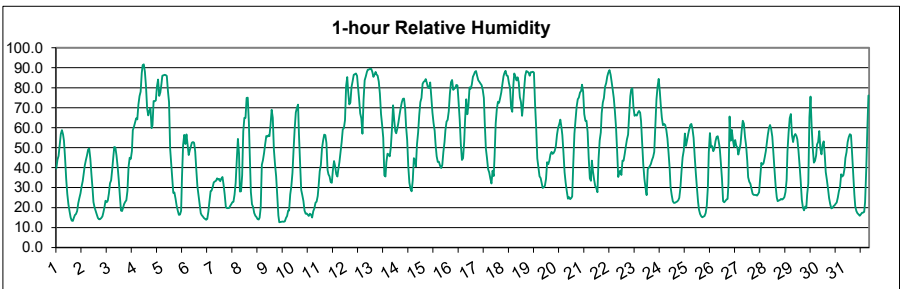
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	653.5	653.9	654.4	654.9	655.1	655.2	655.3	655.0	654.6	654.1	653.7	653.2	652.6	652.2	651.9	651.6	651.4	651.2	651.1	651.0	651.1	651.3	651.1	651.0	652.9	655.3
2	651.0	650.9	650.9	651.1	651.2	651.2	651.1	650.9	650.5	649.9	649.5	649.1	K	648.3	648.0	647.7	647.5	647.2	646.9	646.7	646.8	646.9	646.9	647.0	649.0	651.2
3	647.1	647.2	647.2	647.5	647.6	647.8	647.9	647.9	647.4	646.9	646.2	645.7	645.4	645.1	644.9	644.8	644.4	644.3	644.6	644.9	644.9	644.9	645.0	645.2	646.0	647.9
4	645.3	645.6	646.0	646.8	647.8	648.8	649.8	650.2	650.5	650.5	650.5	650.8	650.8	650.9	650.9	651.0	651.1	651.7	651.8	652.0	652.4	653.1	654.1	654.6	650.3	654.6
5	655.1	655.5	655.8	656.4	656.9	657.2	657.6	657.8	526.6	K	K	657.1	656.8	656.5	656.1	655.8	655.5	655.4	655.3	655.5	655.7	655.9	656.1	656.4	650.3	657.8
6	656.3	656.4	656.5	656.7	656.8	656.8	656.7	656.6	656.3	655.7	K	K	654.0	653.5	652.9	652.2	651.6	651.2	650.7	650.5	650.5	650.3	649.8	649.7	653.7	656.8
7	649.3	649.0	648.8	648.6	648.3	647.9	647.4	647.4	647.5	647.4	647.2	646.9	646.7	646.5	646.5	646.5	646.5	646.2	646.2	646.3	646.6	646.5	646.1	645.6	647.2	649.3
8	645.0	644.9	645.3	646.2	646.0	647.0	648.2	648.9	649.7	650.2	650.8	651.6	652.1	652.5	653.0	653.3	653.5	653.9	654.3	655.0	656.0	656.8	657.1	657.3	651.2	657.3
9	657.5	657.6	657.4	657.3	657.1	657.1	657.0	656.8	656.4	655.9	655.2	654.5	653.9	653.4	653.2	652.8	652.3	652.1	651.8	651.7	651.9	652.0	651.8	651.8	654.5	657.6
10	651.7	651.6	651.5	651.5	651.7	651.6	651.6	651.6	651.1	650.5	649.9	649.2	648.6	648.0	647.5	646.9	646.7	646.5	646.3	646.3	646.5	646.4	646.3	646.4	649.0	651.7
11	646.4	646.5	646.1	646.2	646.4	646.6	646.8	646.8	646.3	645.9	645.4	645.2	644.9	645.2	645.1	644.7	644.2	643.9	643.7	643.9	643.9	644.0	643.8	643.7	645.2	646.8
12	643.6	643.3	642.8	642.7	642.3	641.9	641.6	641.5	641.1	640.8	641.0	640.5	640.3	640.2	640.5	640.9	641.3	642.2	643.0	643.8	644.5	645.2	645.5	645.8	642.4	645.8
13	646.2	646.2	646.3	646.7	647.3	647.6	647.9	648.0	648.1	648.1	648.0	647.8	647.4	647.1	647.3	647.1	646.8	646.8	646.8	647.1	647.1	647.4	647.2	647.2	647.2	648.1
14	647.1	647.1	647.1	647.1	647.1	647.2	647.3	647.4	647.3	647.0	646.7	646.4	646.1	645.8	645.4	645.4	646.0	646.3	646.2	646.8	647.0	647.3	647.7	648.2	648.6	646.9
15	648.8	649.0	649.3	649.6	649.9	650.1	650.4	650.6	650.6	650.4	650.1	650.0	649.8	649.7	649.7	649.6	649.3	649.3	649.4	649.5	649.5	649.7	649.8	649.7	649.7	650.6
16	649.6	649.4	649.4	649.3	649.3	649.3	649.3	649.1	648.9	648.6	648.3	648.2	648.2	648.3	648.5	648.6	648.3	648.6	648.5	648.2	648.2	648.3	648.2	648.1	648.7	649.6
17	648.0	647.7	647.6	647.5	647.3	647.2	647.1	647.2	647.0	646.7	646.5	646.3	646.2	645.8	645.5	645.4	645.1	645.1	645.5	645.8	645.8	646.1	646.1	646.0	646.4	648.0
18	645.8	645.8	645.5	645.3	645.3	645.1	645.2	645.0	644.9	645.0	645.3	644.0	645.9	646.3	646.7	646.9	646.9	646.9	647.2	647.9	648.4	648.9	649.1	649.1	646.4	649.1
19	649.0	648.6	648.5	648.8	648.8	648.7	648.5	648.1	647.6	647.4	647.2	647.0	646.8	646.5	646.3	646.2	646.2	646.6	646.6	646.6	646.8	647.2	647.5	647.7	647.5	649.0
20	647.8	647.8	648.0	648.2	648.3	648.5	648.8	648.7	648.6	648.7	648.7	648.5	648.2	648.3	648.4	648.2	648.3	649.1	649.4	650.2	650.8	651.1	651.1	651.3	649.0	651.3
21	651.3	651.2	651.1	651.1	651.3	651.4	651.5	651.5	651.6	651.6	652.0	652.1	652.1	651.9	651.7	651.7	652.2	652.5	652.7	653.2	653.4	653.8	653.8	653.6	652.1	653.8
22	653.4	653.3	653.2	653.2	653.2	653.2	653.1	652.9	652.6	652.1	651.9	651.7	651.6	651.3	651.5	651.4	651.5	651.6	651.8	651.9	652.0	652.1	652.2	652.0	652.3	653.4
23	652.1	652.0	651.9	652.1	652.2	652.4	652.5	652.4	652.0	651.7	651.6	651.3	651.0	651.0	651.0	651.1	651.1	651.0	651.0	651.3	651.6	651.9	652.2	652.4	651.7	652.5
24	652.7	652.8	653.1	653.3	653.4	653.6	653.7	653.7	653.6	653.5	653.0	652.8	652.6	652.4	652.2	652.1	652.1	652.2	652.3	652.4	652.5	652.7	652.7	652.7	652.8	653.7
25	652.8	652.7	652.8	652.9	652.9	653.1	653.0	652.7	652.4	652.0	651.4	650.9	650.6	650.2	649.9	649.6	649.4	649.2	649.0	649.0	649.1	649.3	649.3	649.3	651.0	653.1
26	649.2	649.0	649.1	649.1	649.1	649.2	649.0	648.6	648.3	647.8	647.8	647.9	647.7	647.7	647.6	648.0	649.2	649.3	650.0	649.8	649.9	650.3	650.3	650.7	648.9	650.7
27	651.3	651.7	652.1	652.4	652.6	652.9	653.1	653.4	654.0	653.9	653.9	653.9	653.7	653.5	653.4	653.4	653.5	653.5	653.6	653.8	654.1	654.5	654.8	655.1	653.4	655.1
28	655.2	655.3	655.5	655.5	655.8	656.0	656.2	656.1	655.8	655.2	654.7	654.0	653.5	653.1	652.7	652.4	652.1	651.7	651.4	651.3	651.3	651.4	651.3	651.3	653.7	656.2
29	651.0	650.8	650.7	650.5	650.2	650.0	649.9	649.7	649.1	648.6	648.1	647.8	647.5	647.3	646.8	647.3	647.6	648.8	649.6	649.3	649.3	649.9	651.4	652.1	649.3	652.1
30	652.9	653.5	653.8	654.5	655.1	655.6	656.1	656.5	656.5	656.3	656.1	655.9	655.6	655.4	655.0	654.7	654.5	654.3	654.0	654.3	654.4	654.8	654.7	654.5	655.0	656.5
31	654.1	653.9	653.9	653.8	653.5	653.2	652.6	651.9	651.3	650.3	649.1	648.3	647.4	646.6	645.8	644.9	644.3	643.7	643.2	643.1	644.2	645.7	646.5	647.5	648.7	654.1
NO.	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.3%
MEAN	650.3	650.3	650.4	650.5	650.6	650.8	650.8	650.8	646.4	650.1	649.6	649.6	649.6	649.4	649.2	649.1	649.1	649.1	649.2	649.3	649.6	649.9	650.0	650.1		
MAX	657.5	657.6	657.4	657.3	657.1	657.2	657.6	657.8	656.5	656.3	656.1	657.1	656.8	656.5	656.1	655.8	655.5	655.4	655.3	655.5	656.0	656.8	657.1	657.3		



Number of Non-Zero Readings	739
Maximum 1-HR Average	658 MMHg
Maximum 24-HR Average	655 MMHg
Monthly Calibration	0
Standard Deviation	5.783
Operational Time	739 HRS
Operational Uptime	99.3 %
Monthly Average	649.7 MMHg

Lagoon Relative Humidity (%) – May 2025

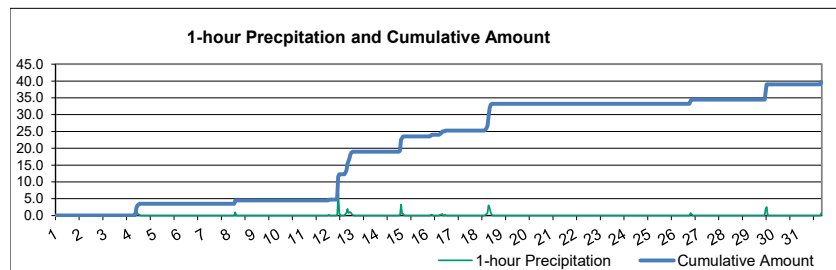
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	39.6	43.9	45.9	51.4	56.9	58.7	56.7	53.5	44.8	34.4	26.8	21.7	18.2	15.0	13.4	13.3	14.7	16.3	16.8	18.3	22.2	24.8	27.1	30.6	31.9	58.7
2	33.3	36.7	40.9	43.7	46.0	49.0	49.6	44.5	36.5	29.3	22.7	20.0	K	16.5	14.7	14.2	14.3	14.8	15.6	17.4	20.0	23.5	22.6	23.5	28.2	49.6
3	27.0	32.2	33.6	39.2	44.4	50.4	50.2	46.1	40.7	34.1	26.1	18.5	18.2	19.8	21.8	22.8	23.7	28.4	40.3	45.0	44.4	48.3	58.8	60.5	36.4	60.5
4	62.6	64.7	64.1	71.6	75.8	78.0	87.3	91.3	91.7	88.0	80.7	69.7	66.2	68.5	69.7	59.7	61.2	73.4	73.2	73.7	80.6	84.2	75.9	77.6	74.6	91.7
5	81.9	86.0	86.2	86.4	86.3	85.9	78.5	72.7	49.5	K	K	27.4	27.6	24.6	21.0	18.5	16.3	16.4	18.4	35.4	51.4	56.4	51.8	56.6	51.6	86.4
6	51.4	46.3	48.8	50.8	52.5	52.8	52.5	48.1	38.9	30.5	K	K	17.2	16.2	15.6	14.8	14.3	13.8	14.3	18.0	23.3	28.2	28.5	30.1	32.1	52.8
7	32.7	33.0	33.4	34.7	34.0	34.3	33.2	34.5	35.3	31.4	26.5	20.4	19.8	19.8	19.8	20.7	21.6	22.7	22.8	26.4	32.4	43.9	54.4	47.0	30.6	54.4
8	28.0	28.1	36.1	58.2	65.0	64.9	75.0	75.0	62.8	46.8	27.8	21.7	20.2	17.2	15.9	15.3	14.3	14.0	14.9	20.0	41.3	43.7	47.3	51.8	37.7	75.0
9	55.8	55.5	56.2	55.7	61.5	69.0	65.0	49.0	41.7	35.7	26.1	16.0	12.6	12.7	12.9	13.0	12.9	13.1	14.8	15.8	18.5	18.5	26.6	30.8	32.9	69.0
10	37.4	49.0	59.5	67.6	69.9	71.5	56.9	42.6	29.0	26.2	23.4	18.5	16.9	17.0	16.4	15.8	16.9	16.4	15.0	18.1	19.7	22.5	22.9	25.8	32.3	71.5
11	30.8	38.3	41.2	49.6	53.4	56.5	56.3	52.2	38.8	36.6	35.5	32.7	32.4	39.0	43.3	40.6	36.6	35.6	39.1	42.8	47.8	52.7	59.3	59.7	43.8	59.7
12	63.8	81.0	85.4	78.3	71.7	72.6	80.3	83.2	86.5	86.8	87.1	85.9	80.7	74.3	67.2	64.7	57.0	74.0	83.8	85.7	87.9	89.1	89.2	89.5	79.4	89.5
13	89.5	88.0	85.4	86.5	87.9	86.7	86.0	83.1	77.1	67.0	61.3	54.9	36.0	35.6	42.7	46.9	46.5	45.6	50.2	59.5	71.3	63.8	58.2	57.2	65.3	89.5
14	59.5	62.7	66.5	69.8	72.7	74.4	74.6	69.7	60.8	54.0	40.6	32.5	29.4	28.2	33.6	44.8	43.7	40.5	51.7	57.6	66.4	72.8	74.9	82.0	56.8	82.0
15	83.0	83.4	84.3	82.4	80.0	79.9	82.6	75.3	67.6	62.4	58.4	51.7	45.6	42.8	43.0	41.1	39.8	41.2	47.9	52.7	58.6	63.0	63.9	68.2	62.5	84.3
16	77.0	82.8	83.9	78.9	79.6	80.0	81.5	81.2	72.7	63.9	51.7	43.9	44.8	52.9	63.9	74.2	66.7	71.1	80.2	79.5	81.5	85.5	86.7	88.0	73.0	88.0
17	88.4	85.9	83.8	83.0	82.1	81.3	78.9	75.0	62.4	49.5	44.7	39.2	37.6	34.6	32.1	38.4	35.7	45.9	62.3	69.3	73.0	72.5	74.9	77.7	62.8	88.4
18	81.9	85.8	87.3	88.5	86.1	85.9	82.4	79.9	69.8	68.0	81.5	87.2	85.7	83.7	85.2	82.8	75.2	72.8	65.9	70.8	79.1	86.0	88.4	88.0	81.2	88.5
19	87.6	86.0	87.9	87.8	88.0	87.6	71.7	59.9	44.6	40.1	35.6	34.8	32.1	29.9	30.2	31.0	34.3	42.7	41.7	43.5	46.7	47.9	46.9	47.3	53.6	88.0
20	48.4	50.8	56.5	60.0	61.7	64.0	60.2	56.3	47.5	37.7	32.3	28.1	24.4	25.2	24.2	24.7	25.6	42.1	56.9	63.9	70.5	74.3	75.1	77.6	49.5	77.6
21	78.4	81.6	78.1	66.8	63.4	63.5	57.8	44.8	34.6	33.4	43.5	38.1	34.0	30.9	29.7	27.7	44.4	53.5	57.7	67.3	72.5	74.9	80.5	82.3	55.8	82.3
22	85.7	87.7	88.8	86.4	83.3	79.3	75.0	68.3	60.3	48.5	35.4	37.7	38.6	36.3	43.5	43.5	46.9	50.6	54.2	56.5	66.8	75.8	79.2	79.8	62.8	88.8
23	70.2	66.0	66.5	66.0	67.5	68.4	67.5	63.2	52.3	41.6	34.4	29.9	26.2	39.2	40.0	40.9	41.8	43.8	45.3	47.9	61.2	74.2	80.6	84.4	55.0	84.4
24	78.1	71.6	65.0	61.2	61.9	61.3	58.8	54.6	47.4	39.6	30.4	26.4	23.2	22.3	22.4	22.8	23.1	23.8	24.9	29.8	38.2	45.2	48.5	57.0	43.2	78.1
25	50.9	53.8	56.8	58.9	61.4	61.9	59.4	54.9	45.6	37.3	29.8	22.9	19.1	16.8	15.6	15.1	15.4	15.8	17.3	21.0	30.7	47.8	57.3	50.4	38.2	61.9
26	50.8	48.3	49.5	53.3	55.4	55.7	53.4	49.8	42.3	34.3	23.2	22.7	23.3	24.0	24.4	32.1	65.6	53.4	58.9	53.7	50.5	53.8	50.9	50.1	45.0	65.6
27	46.5	49.0	51.8	58.5	63.4	62.1	55.4	50.9	43.5	35.2	32.9	32.0	29.4	26.9	26.4	26.4	26.2	26.0	26.7	27.7	35.2	42.3	41.5	42.2	39.9	63.4
28	45.1	48.3	52.8	56.4	59.9	61.4	59.3	55.5	47.2	38.6	30.7	25.1	23.2	23.6	23.8	24.4	24.0	24.4	25.2	27.8	33.7	48.5	57.7	64.8	40.9	64.8
29	66.8	56.3	52.8	55.8	56.9	55.9	54.2	48.5	41.2	33.3	24.0	20.0	18.6	20.5	19.8	26.7	32.1	65.2	75.6	60.7	49.7	42.5	43.4	46.1	44.4	75.6
30	51.6	52.8	58.3	49.4	46.6	51.6	53.2	45.6	37.7	33.9	29.6	24.8	21.7	19.6	19.8	20.8	21.2	21.8	22.5	25.0	28.2	30.4	36.6	35.6	34.9	58.3
31	36.2	39.4	44.9	47.8	52.8	55.2	56.7	56.3	46.8	36.7	26.5	20.6	18.3	17.1	16.6	15.9	16.6	17.4	17.5	17.8	22.8	38.6	59.0	76.1	35.6	76.1
NO.	31	31	31	31	31	31	31	31	31	30	29	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.3%
MEAN	58.7	60.5	62.3	64.0	65.4	66.4	64.8	60.2	51.5	44.5	38.9	34.2	31.4	30.7	31.2	32.1	33.2	36.7	40.4	43.5	49.2	54.0	57.0	59.3		
MAX	89.5	88.0	88.8	88.5	88.0	87.6	87.3	91.3	91.7	88.0	87.1	87.2	85.7	83.7	85.2	82.8	75.2	74.0	83.8	85.7	87.9	89.1	89.2	89.5		



Number of Non-Zero Readings	739
Maximum 1-HR Average	91.7 %
Maximum 24-HR Average	81.2 %
Monthly Calibration	0
Standard Deviation	22.08
Operational Time	739 HRS
Operational Uptime	99.3 %
Monthly Average	48.8 %

Lagoon Precipitation (mm) – May 2025

Day	HOUR																								DAILY MAX 24-HOUR TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
4	0.0	0.0	0.0	0.0	0.0	0.3	2.0	0.8	0.3	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	2.0	3.5
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	K	K	0.0	0.0	0.0	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	K	K	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	1.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.5	0.8	0.0	0.0	0.0	0.0	0.0	0.5	0.8	2.0	0.8	1.0	1.0	0.5	6.5	14.3
13	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	0.3	0.3
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	0.3	3.3	3.3	3.5
15	0.5	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	0.5	1.0
16	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	3.0	2.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	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	2.5	0.0	0.0	0.0	0.0	0.0	2.5	4.5
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
NO.	31	31	31	31	31	31	31	31	31	30	29	30	31	31	31	31	31	31	31	31	31	31	31	31	740	99%
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1		
MAX	0.5	0.5	0.0	0.0	0.3	0.3	2.0	0.8	0.3	0.3	6.5	0.8	3.0	2.3	1.0	0.5	0.8	2.0	2.5	2.0	0.8	1.0	1.0	3.3		



Number of Non-Zero Readings 40

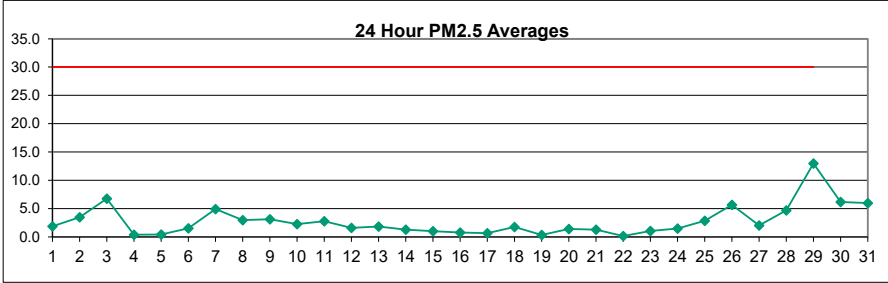
Maximum 1-HR Average 14.3 MM

Maximum 24-HR Average 6.5 MM

Monthly Calibration 0 Operational Time 740 HRS
Standard Deviation 0.356 Operational Uptime 99.5 %
Monthly Average 0.05 MM

Windridge PM2.5 (µg/m³) – May 2025

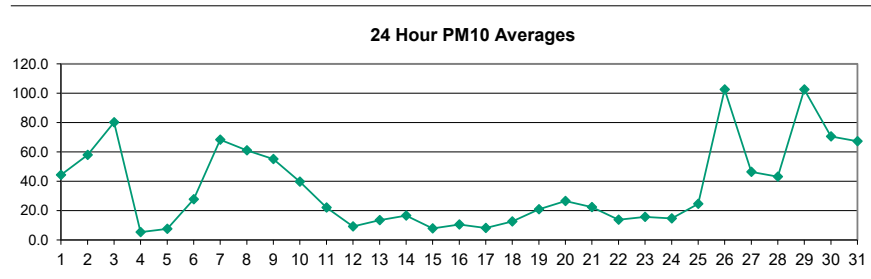
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	1.0	1.0	4.0	2.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	14.0	8.0	3.0	1.0	2.0	1.9	14.0
2	1.0	4.0	1.0	1.0	0.0	0.0	1.0	0.0	2.0	3.0	C	C	7.0	6.0	3.0	1.0	6.0	7.0	8.0	8.0	4.0	2.0	3.0	8.0	3.5	8.0
3	4.0	0.0	0.0	4.0	2.0	X	6.0	6.0	4.0	4.0	4.0	8.0	8.0	8.0	10.0	13.0	8.0	23.0	24.0	4.0	9.0	5.0	1.0	0.0	6.7	24.0
4	2.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.4	2.0
5	0.0	0.0	1.0	3.0	3.0	2.0	0.0	0.0	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	0.4	3.0
6	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	K	K	1.0	1.0	0.0	1.0	5.0	5.0	8.0	4.0	1.0	1.0	0.0	4.0	1.5	8.0
7	4.0	3.0	5.0	1.0	0.0	5.0	6.0	6.0	4.0	5.0	4.0	5.0	4.0	12.0	20.0	7.0	5.0	4.0	4.0	3.0	0.0	2.0	3.0	6.0	4.9	20.0
8	9.0	6.0	10.0	7.0	4.0	2.0	0.0	0.0	0.0	4.0	4.0	1.0	7.0	5.0	3.0	5.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	10.0
9	0.0	0.0	4.0	1.0	0.0	4.0	6.0	4.0	4.0	1.0	0.0	2.0	0.0	6.0	7.0	8.0	5.0	7.0	5.0	3.0	2.0	2.0	2.0	2.0	3.1	8.0
10	0.0	0.0	2.0	1.0	1.0	3.0	4.0	4.0	1.0	0.0	0.0	0.0	4.0	4.0	4.0	3.0	2.0	0.0	4.0	5.0	1.0	0.0	5.0	6.0	2.3	6.0
11	3.0	3.0	3.0	4.0	1.0	0.0	0.0	3.0	2.0	2.0	3.0	6.0	4.0	1.0	3.0	2.0	3.0	6.0	4.0	3.0	1.0	1.0	4.0	4.0	2.8	6.0
12	3.0	3.0	3.0	1.0	0.0	3.0	6.0	5.0	4.0	2.0	0.0	3.0	3.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	X	8.0	5.0	1.0	1.0	5.0	4.0	4.0	5.0	1.0	0.0	2.0	1.8	8.0
14	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	6.0	3.0	2.0	1.0	1.0	1.0	1.0	3.0	1.0	0.0	0.0	3.0	3.0	1.3	6.0
15	2.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	2.0	2.0	1.0	0.0	0.0	0.0	2.0	1.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	1.0	4.0
16	1.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	2.0	2.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.0	1.0	X	0.8	3.0
17	X	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	0.0	0.7	2.0
18	1.0	2.0	3.0	0.0	0.0	1.0	0.0	1.0	6.0	7.0	0.0	X	0.0	2.0	0.0	3.0	3.0	5.0	4.0	0.0	0.0	0.0	0.0	2.0	1.7	7.0
19	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	0.3	2.0
20	3.0	1.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	3.0	3.0	0.0	2.0	2.0	0.0	3.0	4.0	2.0	2.0	1.0	0.0	0.0	0.0	2.0	1.4	4.0
21	2.0	2.0	2.0	0.0	0.0	2.0	2.0	4.0	2.0	2.0	0.0	0.0	1.0	5.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.3	5.0
22	1.0	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	0.1	2.0
23	0.0	4.0	0.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	2.0	1.0	3.0	2.0	1.0	1.0	0.0	0.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	4.0
24	1.0	0.0	1.0	1.0	5.0	4.0	4.0	1.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	1.0	3.0	1.0	0.0	0.0	0.0	3.0	1.5	5.0
25	3.0	4.0	3.0	3.0	3.0	2.0	5.0	4.0	0.0	0.0	1.0	1.0	4.0	4.0	5.0	4.0	2.0	2.0	8.0	5.0	1.0	0.0	0.0	4.0	2.8	8.0
26	4.0	1.0	0.0	3.0	4.0	2.0	2.0	4.0	6.0	17.0	22.0	25.0	8.0	7.0	5.0	6.0	2.0	0.0	0.0	2.0	6.0	3.0	4.0	3.0	5.7	25.0
27	4.0	4.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	3.0	2.0	1.0	2.0	4.0	4.0	3.0	0.0	1.0	9.0	5.0	1.0	1.0	0.0	2.0	9.0
28	0.0	0.0	4.0	3.0	1.0	0.0	1.0	2.0	0.0	0.0	1.0	3.0	5.0	14.0	20.0	13.0	9.0	8.0	5.0	2.0	8.0	6.0	5.0	2.0	4.7	20.0
29	1.0	2.0	4.0	1.0	5.0	5.0	7.0	22.0	16.0	12.0	22.0	13.0	51.0	26.0	17.0	X	32.0	16.0	2.0	15.0	5.0	12.0	7.0	5.0	13.0	51.0
30	3.0	1.0	1.0	3.0	4.0	1.0	1.0	9.0	3.0	1.0	4.0	4.0	3.0	27.0	4.0	14.0	9.0	10.0	10.0	12.0	9.0	10.0	5.0	0.0	6.2	27.0
31	2.0	1.0	0.0	2.0	1.0	1.0	2.0	4.0	0.0	0.0	2.0	16.0	8.0	8.0	18.0	16.0	10.0	6.0	6.0	6.0	10.0	12.0	7.0	5.0	6.0	18.0
NO.	30	31	31	31	31	30	31	31	31	31	29	28	30	31	31	30	31	31	31	31	31	31	30		734	98.9%
MEAN	1.9	1.5	1.5	1.4	1.3	1.4	2.0	2.7	1.9	2.3	3.0	3.6	4.3	5.0	4.5	3.8	3.9	3.7	3.6	3.5	2.6	2.2	1.8	2.2	7.5	
MAX	9.0	6.0	10.0	7.0	5.0	5.0	7.0	22.0	16.0	17.0	22.0	25.0	51.0	27.0	20.0	16.0	32.0	23.0	24.0	15.0	10.0	12.0	7.0	8.0	17.4	70.0



Number of 24HR Exceedences		0 Proposed Guideline	
Number of Non-Zero Readings		469	
Maximum 1-HR Average		51.0 UG/M3	
Maximum 24-HR Average		13.0 UG/M3	
		Operational Time	736 HRS
Monthly Calibration	2	Operational Uptime	98.9 %
Standard Deviation	4.4	Monthly Average	2.7 UG/M3

Windridge PM₁₀ (µg/m³) – May 2025

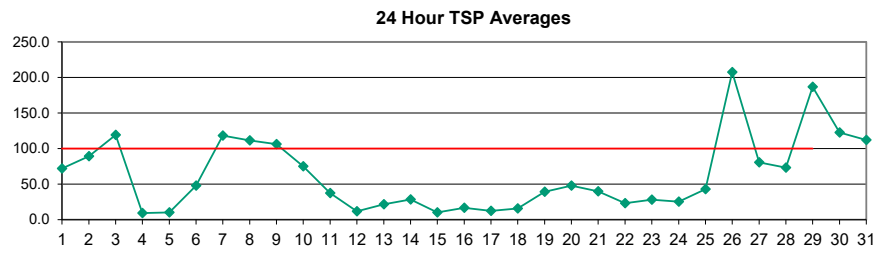
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.0	9.0	6.0	4.0	7.0	9.0	14.0	36.0	32.0	99.0	76.0	38.0	35.0	17.0	29.0	36.0	44.0	53.0	37.0	207.0	67.0	51.0	58.0	91.0	44.3	207.0
2	32.0	139.0	27.0	8.0	9.0	12.0	15.0	22.0	35.0	115.0	115.0	C	75.0	42.0	22.0	25.0	37.0	102.0	99.0	141.0	33.0	43.0	89.0	95.0	57.9	141.0
3	19.0	7.0	8.0	6.0	12.0	X	47.0	54.0	26.0	25.0	69.0	102.0	105.0	85.0	53.0	123.0	62.0	301.0	397.0	155.0	96.0	17.0	41.0	34.0	80.2	397.0
4	8.0	34.0	4.0	14.0	7.0	4.0	3.0	3.0	1.0	2.0	5.0	3.0	5.0	4.0	5.0	3.0	2.0	2.0	2.0	2.0	4.0	3.0	3.0	4.0	5.3	34.0
5	2.0	9.0	20.0	7.0	15.0	7.0	4.0	7.0	17.0	12.0	13.0	13.0	9.0	4.0	2.0	4.0	6.0	6.0	10.0	6.0	3.0	2.0	1.0	0.0	7.5	20.0
6	2.0	4.0	5.0	4.0	3.0	8.0	13.0	19.0	21.0	31.0	K	K	20.0	40.0	58.0	76.0	85.0	95.0	55.0	14.0	11.0	21.0	11.0	12.0	27.6	95.0
7	13.0	9.0	64.0	12.0	10.0	83.0	138.0	119.0	44.0	109.0	97.0	66.0	67.0	188.0	159.0	114.0	69.0	28.0	82.0	65.0	11.0	8.0	18.0	66.0	68.3	188.0
8	170.0	62.0	122.0	27.0	14.0	30.0	12.0	27.0	23.0	40.0	41.0	63.0	151.0	129.0	129.0	123.0	39.0	113.0	69.0	31.0	16.0	15.0	11.0	9.0	61.1	170.0
9	15.0	16.0	13.0	16.0	25.0	17.0	40.0	88.0	34.0	34.0	71.0	87.0	92.0	127.0	79.0	114.0	61.0	99.0	93.0	135.0	26.0	21.0	14.0	7.0	55.2	135.0
10	3.0	10.0	10.0	22.0	15.0	11.0	26.0	37.0	18.0	10.0	13.0	33.0	111.0	48.0	83.0	23.0	36.0	29.0	148.0	63.0	28.0	15.0	98.0	61.0	39.6	148.0
11	42.0	76.0	87.0	7.0	8.0	5.0	12.0	12.0	17.0	19.0	20.0	21.0	18.0	12.0	13.0	10.0	13.0	9.0	20.0	79.0	8.0	5.0	9.0	8.0	22.1	87.0
12	17.0	13.0	12.0	10.0	7.0	10.0	9.0	11.0	8.0	9.0	6.0	13.0	7.0	10.0	23.0	21.0	12.0	9.0	4.0	2.0	4.0	2.0	0.0	0.0	9.1	23.0
13	0.0	0.0	0.0	3.0	5.0	5.0	8.0	9.0	6.0	8.0	7.0	17.0	X	61.0	20.0	12.0	10.0	8.0	7.0	7.0	6.0	41.0	17.0	51.0	13.4	61.0
14	1.0	7.0	9.0	6.0	10.0	6.0	3.0	9.0	10.0	11.0	30.0	24.0	29.0	15.0	21.0	23.0	18.0	106.0	32.0	5.0	7.0	6.0	5.0	3.0	16.5	106.0
15	4.0	4.0	0.0	1.0	1.0	3.0	6.0	8.0	6.0	9.0	9.0	10.0	10.0	12.0	8.0	11.0	10.0	8.0	7.0	9.0	17.0	13.0	13.0	9.0	7.8	17.0
16	6.0	5.0	9.0	9.0	5.0	16.0	17.0	16.0	15.0	31.0	30.0	11.0	8.0	13.0	11.0	8.0	8.0	5.0	2.0	2.0	3.0	7.0	4.0	X	10.5	31.0
17	X	3.0	2.0	6.0	6.0	5.0	4.0	5.0	16.0	19.0	8.0	4.0	14.0	10.0	12.0	8.0	7.0	11.0	11.0	9.0	6.0	6.0	10.0	5.0	8.1	19.0
18	6.0	9.0	7.0	8.0	6.0	45.0	3.0	24.0	15.0	15.0	8.0	X	0.0	0.0	0.0	2.0	24.0	44.0	24.0	8.0	8.0	5.0	8.0	19.0	12.5	45.0
19	18.0	3.0	3.0	2.0	0.0	0.0	2.0	59.0	30.0	18.0	22.0	11.0	16.0	19.0	17.0	20.0	37.0	23.0	20.0	17.0	30.0	63.0	41.0	31.0	20.9	63.0
20	35.0	26.0	2.0	3.0	2.0	5.0	13.0	66.0	68.0	34.0	43.0	36.0	49.0	24.0	42.0	83.0	30.0	20.0	26.0	9.0	7.0	4.0	4.0	6.0	26.5	83.0
21	6.0	8.0	8.0	13.0	7.0	3.0	28.0	73.0	64.0	81.0	8.0	5.0	22.0	84.0	31.0	50.0	22.0	11.0	6.0	0.0	0.0	0.0	1.0	4.0	22.3	84.0
22	4.0	1.0	8.0	25.0	5.0	9.0	20.0	38.0	41.0	39.0	17.0	13.0	11.0	12.0	20.0	13.0	13.0	8.0	2.0	0.0	5.0	4.0	18.0	5.0	13.8	41.0
23	11.0	10.0	6.0	7.0	5.0	31.0	17.0	51.0	29.0	37.0	26.0	23.0	18.0	19.0	7.0	7.0	15.0	10.0	9.0	10.0	7.0	9.0	8.0	5.0	15.7	51.0
24	5.0	8.0	11.0	12.0	8.0	7.0	7.0	9.0	7.0	21.0	33.0	13.0	27.0	13.0	37.0	34.0	17.0	29.0	24.0	9.0	6.0	6.0	5.0	3.0	14.6	37.0
25	15.0	17.0	9.0	17.0	5.0	5.0	11.0	13.0	13.0	17.0	19.0	22.0	27.0	22.0	36.0	35.0	25.0	65.0	117.0	77.0	4.0	8.0	6.0	6.0	24.6	117.0
26	6.0	9.0	17.0	15.0	4.0	9.0	16.0	52.0	182.0	335.0	485.0	398.0	183.0	128.0	74.0	191.0	7.0	24.0	26.0	51.0	64.0	26.0	95.0	66.0	102.6	485.0
27	103.0	71.0	25.0	8.0	6.0	12.0	57.0	92.0	64.0	72.0	46.0	38.0	58.0	54.0	51.0	67.0	51.0	51.0	74.0	76.0	6.0	6.0	14.0	12.0	46.4	103.0
28	20.0	17.0	20.0	6.0	12.0	10.0	50.0	78.0	61.0	62.0	39.0	37.0	68.0	55.0	123.0	121.0	48.0	34.0	27.0	24.0	46.0	21.0	25.0	29.0	43.0	123.0
29	12.0	23.0	41.0	18.0	74.0	38.0	46.0	485.0	226.0	166.0	114.0	91.0	120.0	217.0	169.0	X	54.0	85.0	28.0	70.0	55.0	103.0	60.0	65.0	102.6	485.0
30	5.0	2.0	8.0	47.0	52.0	10.0	40.0	105.0	33.0	55.0	37.0	38.0	42.0	40.0	53.0	148.0	106.0	218.0	183.0	166.0	124.0	153.0	9.0	17.0	70.5	218.0
31	12.0	12.0	8.0	6.0	7.0	13.0	15.0	23.0	21.0	13.0	82.0	197.0	136.0	107.0	182.0	332.0	141.0	14.0	22.0	26.0	80.0	110.0	36.0	20.0	67.3	332.0
NO.	30	31	31	31	31	30	31	31	31	31	30	28	30	31	31	30	31	31	31	31	31	31	31	30	735	98.9%
MEAN	20.0	20.1	18.4	11.3	11.4	14.3	22.5	53.2	38.2	49.9	53.0	51.0	51.1	52.0	50.6	61.2	35.8	52.3	53.6	47.6	25.4	25.6	23.6	24.8	42.0	
MAX	170.0	139.0	122.0	47.0	74.0	83.0	138.0	485.0	226.0	335.0	485.0	398.0	183.0	217.0	182.0	332.0	141.0	301.0	397.0	207.0	124.0	153.0	98.0	95.0	91.1	433.3



Number of Non-Zero Readings	719
Maximum 1-HR Average	485.0 UG/M3
Maximum 24-HR Average	102.6 UG/M3
Monthly Calibration	1
Standard Deviation	53.29
Operational Time	736 HRS
Operational Uptime	98.9 %
Monthly Average	36.0 UG/M3

Windridge TSP (µg/m³) – May 2025

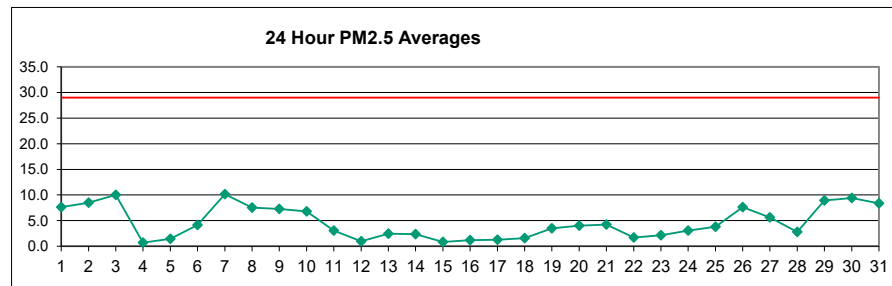
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	15.0	9.0	6.0	12.0	8.0	6.0	20.0	55.0	56.0	177.0	118.0	70.0	58.0	33.0	54.0	62.0	70.0	84.0	58.0	314.0	100.0	83.0	108.0	145.0	71.7	314.0
2	56.0	211.0	54.0	20.0	2.0	5.0	22.0	31.0	42.0	166.0	166.0	C	116.0	60.0	37.0	46.0	64.0	173.0	171.0	219.0	45.0	68.0	135.0	141.0	89.1	219.0
3	26.0	16.0	13.0	12.0	8.0	X	54.0	71.0	34.0	35.0	106.0	183.0	145.0	155.0	89.0	154.0	88.0	448.0	600.0	219.0	142.0	28.0	67.0	49.0	119.2	600.0
4	9.0	62.0	24.0	17.0	13.0	10.0	10.0	5.0	4.0	3.0	3.0	3.0	5.0	5.0	11.0	8.0	7.0	4.0	1.0	1.0	4.0	5.0	2.0	3.0	9.1	62.0
5	4.0	15.0	41.0	6.0	7.0	4.0	3.0	12.0	22.0	21.0	10.0	16.0	6.0	4.0	7.0	6.0	6.0	16.0	23.0	3.0	5.0	3.0	0.0	0.0	10.0	41.0
6	3.0	7.0	9.0	8.0	5.0	15.0	11.0	29.0	18.0	47.0	K	K	39.0	93.0	94.0	141.0	134.0	173.0	110.0	28.0	13.0	38.0	19.0	17.0	47.8	173.0
7	20.0	9.0	110.0	27.0	19.0	149.0	233.0	169.0	61.0	168.0	158.0	145.0	121.0	362.0	290.0	194.0	107.0	57.0	145.0	117.0	9.0	10.0	29.0	124.0	118.0	362.0
8	337.0	110.0	224.0	53.0	19.0	50.0	14.0	38.0	31.0	78.0	87.0	104.0	262.0	222.0	245.0	208.0	81.0	202.0	142.0	68.0	32.0	26.0	17.0	21.0	111.3	337.0
9	28.0	31.0	19.0	25.0	34.0	33.0	79.0	215.0	73.0	67.0	143.0	202.0	179.0	204.0	145.0	204.0	109.0	183.0	187.0	287.0	40.0	39.0	15.0	5.0	106.1	287.0
10	2.0	15.0	14.0	35.0	18.0	12.0	41.0	56.0	31.0	26.0	22.0	80.0	206.0	96.0	157.0	51.0	70.0	60.0	299.0	114.0	55.0	20.0	195.0	123.0	74.9	299.0
11	77.0	144.0	146.0	6.0	4.0	5.0	4.0	25.0	30.0	36.0	31.0	29.0	33.0	25.0	25.0	14.0	17.0	18.0	40.0	144.0	19.0	2.0	8.0	15.0	37.4	146.0
12	17.0	8.0	7.0	14.0	11.0	19.0	16.0	10.0	10.0	10.0	10.0	9.0	12.0	22.0	36.0	37.0	22.0	3.0	2.0	2.0	3.0	0.0	0.0	2.0	11.8	37.0
13	3.0	3.0	0.0	0.0	2.0	4.0	20.0	5.0	7.0	8.0	8.0	25.0	X	106.0	48.0	19.0	10.0	8.0	6.0	11.0	6.0	80.0	32.0	85.0	21.6	106.0
14	12.0	9.0	7.0	7.0	4.0	1.0	2.0	9.0	17.0	18.0	53.0	46.0	47.0	39.0	39.0	46.0	23.0	215.0	51.0	12.0	11.0	7.0	3.0	4.0	28.4	215.0
15	0.0	0.0	0.0	0.0	0.0	6.0	7.0	9.0	11.0	7.0	10.0	12.0	10.0	18.0	12.0	22.0	11.0	10.0	10.0	11.0	26.0	11.0	22.0	15.0	10.0	26.0
16	11.0	8.0	10.0	10.0	6.0	27.0	24.0	13.0	26.0	51.0	53.0	20.0	34.0	27.0	23.0	5.0	9.0	7.0	3.0	3.0	5.0	5.0	3.0	X	16.7	53.0
17	X	5.0	1.0	2.0	3.0	1.0	5.0	3.0	30.0	23.0	6.0	7.0	19.0	10.0	14.0	19.0	30.0	38.0	25.0	9.0	10.0	7.0	8.0	6.0	12.2	38.0
18	3.0	15.0	5.0	5.0	4.0	70.0	9.0	25.0	18.0	35.0	9.0	X	1.0	0.0	0.0	2.0	28.0	60.0	31.0	0.0	7.0	3.0	2.0	28.0	15.7	70.0
19	24.0	4.0	3.0	0.0	0.0	2.0	12.0	99.0	70.0	33.0	42.0	24.0	29.0	31.0	35.0	37.0	64.0	42.0	35.0	36.0	69.0	113.0	77.0	59.0	39.2	113.0
20	58.0	37.0	3.0	0.0	0.0	1.0	18.0	122.0	121.0	62.0	79.0	77.0	81.0	49.0	78.0	173.0	60.0	37.0	59.0	25.0	0.0	1.0	1.0	1.0	47.6	173.0
21	4.0	10.0	12.0	23.0	7.0	3.0	44.0	130.0	115.0	155.0	17.0	4.0	41.0	153.0	48.0	85.0	56.0	13.0	15.0	4.0	4.0	1.0	1.0	5.0	39.6	155.0
22	3.0	0.0	13.0	41.0	10.0	15.0	29.0	60.0	54.0	63.0	40.0	28.0	16.0	23.0	38.0	32.0	22.0	5.0	10.0	6.0	9.0	5.0	32.0	0.0	23.1	63.0
23	18.0	18.0	12.0	10.0	6.0	51.0	28.0	83.0	48.0	60.0	54.0	55.0	30.0	54.0	17.0	26.0	28.0	13.0	11.0	17.0	6.0	12.0	8.0	5.0	27.9	83.0
24	6.0	8.0	12.0	15.0	11.0	11.0	10.0	11.0	8.0	38.0	55.0	23.0	51.0	20.0	85.0	68.0	28.0	59.0	40.0	13.0	12.0	8.0	6.0	10.0	25.3	13.0
25	11.0	34.0	22.0	9.0	7.0	5.0	14.0	12.0	15.0	30.0	27.0	43.0	50.0	42.0	68.0	65.0	53.0	112.0	229.0	134.0	14.0	8.0	9.0	13.0	42.8	229.0
26	10.0	20.0	33.0	28.0	9.0	17.0	17.0	94.0	389.0	927.0	985.0	537.0	374.0	309.0	170.0	479.0	10.0	34.0	38.0	79.0	89.0	45.0	162.0	122.0	207.4	985.0
27	179.0	107.0	32.0	8.0	6.0	19.0	99.0	172.0	112.0	143.0	84.0	71.0	80.0	92.0	95.0	112.0	90.0	90.0	140.0	144.0	6.0	5.0	21.0	28.0	80.6	179.0
28	45.0	27.0	30.0	9.0	18.0	17.0	76.0	122.0	80.0	104.0	80.0	69.0	90.0	120.0	229.0	225.0	92.0	63.0	52.0	40.0	78.0	27.0	38.0	22.0	73.0	229.0
29	27.0	48.0	79.0	36.0	114.0	58.0	73.0	961.0	393.0	315.0	221.0	198.0	218.0	394.0	324.0	X	107.0	98.0	32.0	116.0	80.0	186.0	115.0	103.0	186.8	961.0
30	11.0	9.0	15.0	81.0	71.0	9.0	65.0	174.0	54.0	99.0	70.0	65.0	52.0	82.0	105.0	275.0	214.0	340.0	373.0	330.0	164.0	240.0	8.0	31.0	122.4	373.0
31	12.0	15.0	11.0	10.0	7.0	18.0	23.0	26.0	21.0	20.0	132.0	336.0	240.0	182.0	269.0	577.0	227.0	37.0	64.0	54.0	145.0	190.0	64.0	12.0	112.2	577.0
NO.	30	31	31	31	31	30	31	31	31	31	30	28	30	31	31	30	31	31	31	31	31	31	31	30	735	98.9%
MEAN	34.4	32.7	31.2	17.1	14.0	21.4	34.9	91.8	64.5	97.6	96.0	88.6	88.2	97.8	93.1	113.1	62.5	87.2	96.8	82.6	39.0	41.2	38.9	39.8		
MAX	337.0	211.0	224.0	81.0	114.0	149.0	233.0	961.0	393.0	927.0	985.0	537.0	374.0	394.0	324.0	577.0	227.0	448.0	600.0	330.0	164.0	240.0	195.0	145.0		



Number of 24HR Exceedences	8	Proposed Guideline
Number of Non-Zero Readings	714	
Maximum 1-HR Average	985.0 UG/M3	
Maximum 24-HR Average	207.4 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	99.7	Monthly Average
		736 HRS
		98.9 %
		62.5 UG/M3

Berm PM_{2.5} (µg/m³) – May 2025

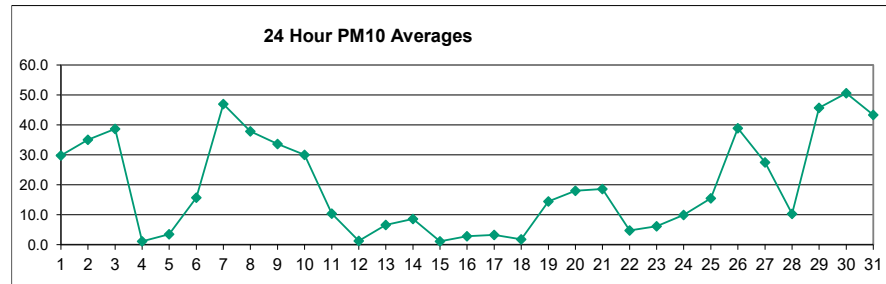
DAY	HOUR																								MEAN	MAX
1	1.2	1.0	1.2	1.3	1.1	1.1	1.7	3.0	2.3	12.3	12.3	7.9	8.1	9.2	12.3	18.5	17.8	16.5	23.1	13.8	3.8	2.9	4.6	6.1	7.6	23.1
2	3.0	11.6	2.8	1.4	1.1	1.3	1.6	2.1	3.3	10.1	20.7	18.1	16.2	10.3	8.0	10.9	11.6	15.6	17.4	10.5	1.6	6.6	7.6	10.0	8.5	20.7
3	2.8	1.8	2.0	2.0	1.3	2.7	4.5	6.2	3.3	5.3	9.5	22.0	18.8	10.3	10.5	13.9	7.5	42.1	41.9	15.0	7.3	1.8	4.1	3.5	10.0	42.1
4	1.4	2.3	1.9	1.2	0.4	0.2	0.2	0.1	0.2	0.5	0.4	1.1	0.4	1.2	0.4	0.7	1.0	0.3	0.4	0.3	0.8	0.7	0.6	0.6	0.7	2.3
5	0.4	1.2	3.0	1.0	0.9	0.8	0.5	1.8	3.3	2.3	2.5	1.9	1.9	1.2	1.1	2.5	2.0	1.8	2.4	0.5	0.4	0.4	0.4	0.5	1.4	3.3
6	0.5	1.0	0.9	0.6	0.6	1.4	1.5	2.0	1.8	5.0	10.2	7.0	4.6	7.3	7.7	12.6	7.4	10.2	9.4	1.5	1.4	1.8	1.6	1.7	4.1	12.6
7	2.2	1.6	6.1	2.3	1.7	10.0	16.8	15.0	3.8	9.0	7.2	18.5	22.6	34.7	34.4	14.7	7.8	4.0	11.5	3.8	1.2	1.1	2.5	10.7	10.1	34.7
8	22.2	15.5	11.6	2.5	1.3	1.0	0.6	1.3	2.2	3.4	5.8	4.0	12.8	28.6	18.1	16.5	5.3	11.3	5.6	6.3	1.6	1.3	1.1	1.4	7.6	28.6
9	1.6	1.7	1.6	1.6	1.3	1.1	4.1	7.9	4.3	8.5	10.4	17.4	14.5	13.0	15.5	19.5	6.9	10.2	12.3	15.8	2.3	1.5	1.1	0.9	7.3	19.5
10	0.6	0.6	0.8	0.8	0.7	1.0	1.7	3.2	2.3	2.0	1.8	7.0	11.9	10.9	11.0	8.0	3.8	9.3	21.3	13.8	8.2	5.9	27.2	10.1	6.8	27.2
11	5.5	12.4	8.0	0.9	0.7	0.9	1.4	1.9	2.0	2.3	2.2	2.0	2.3	1.9	1.9	1.7	1.7	1.4	6.0	10.5	2.0	1.0	1.2	1.8	3.1	12.4
12	1.9	1.1	1.2	1.4	1.6	1.4	1.5	2.0	2.1	1.6	0.5	1.2	1.0	1.2	0.8	1.2	0.6	0.3	0.1	0.1	0.2	0.2	0.1	0.2	1.0	2.1
13	0.3	0.2	0.1	0.5	0.5	0.6	1.5	0.9	1.1	1.1	0.8	1.7	4.5	25.9	4.4	1.4	1.4	1.3	1.3	0.7	0.6	3.3	1.7	3.4	2.5	25.9
14	0.9	0.7	0.9	0.8	0.6	0.7	0.7	1.8	2.1	2.5	4.8	4.0	5.8	4.5	3.3	4.3	2.3	10.5	2.9	0.8	0.8	0.5	0.4	0.2	2.4	10.5
15	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.8	1.9	0.8	1.0	0.9	1.0	1.1	1.3	1.7	1.1	1.0	1.1	1.1	1.2	1.1	1.4	1.6	0.9	1.9
16	1.3	0.9	1.2	1.6	0.7	1.0	1.9	1.5	2.2	3.9	4.2	2.2	0.9	0.6	0.9	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.5	1.2	4.2
17	0.7	0.7	0.4	0.5	0.8	0.4	0.6	0.4	0.4	2.7	5.6	2.6	1.3	2.3	0.6	0.8	0.7	1.8	1.3	1.4	1.0	0.9	1.5	1.9	1.3	5.6
18	1.9	1.4	0.7	0.6	0.6	3.0	1.2	3.4	3.6	2.9	1.6	2.3	0.5	0.3	0.4	0.5	3.1	2.8	1.5	0.4	0.5	0.6	1.3	2.8	1.6	3.6
19	1.9	2.1	1.2	0.6	0.6	0.7	0.9	2.6	2.1	2.1	6.2	6.8	5.8	6.9	8.8	5.8	3.8	4.3	6.5	6.7	3.2	1.9	1.3	1.3	3.5	8.8
20	2.0	0.9	0.5	0.2	0.5	0.4	1.1	5.5	6.8	5.7	7.8	8.0	8.1	6.6	9.5	12.1	6.2	3.4	6.9	1.2	0.9	0.6	0.6	0.7	4.0	12.1
21	0.8	1.3	1.7	1.9	1.2	0.6	4.6	9.5	11.6	18.0	1.9	0.8	5.3	15.5	10.3	10.2	2.3	1.1	0.8	0.6	0.4	0.4	0.4	0.5	4.2	18.0
22	0.4	0.4	1.2	2.8	2.2	1.4	2.3	5.7	5.3	6.7	2.0	1.5	0.7	1.5	1.1	1.0	1.1	0.8	0.6	0.5	0.3	0.4	0.3	0.7	1.7	6.7
23	1.7	1.5	1.2	1.2	1.5	3.5	2.7	4.0	4.5	6.5	4.5	2.9	3.1	2.6	1.2	1.3	1.3	1.0	0.9	0.7	0.8	1.0	0.8	1.0	2.2	6.5
24	0.7	1.4	1.8	2.0	1.9	1.8	1.9	2.0	1.2	3.6	7.0	3.8	5.2	2.7	8.7	9.0	3.3	6.7	2.9	1.2	1.1	0.8	1.2	1.5	3.1	9.0
25	2.4	2.4	2.0	1.6	1.3	1.2	1.8	2.6	1.7	2.6	2.9	3.0	3.2	3.9	6.1	5.3	3.2	10.8	23.3	4.3	1.4	1.2	1.4	1.6	3.8	23.3
26	1.4	2.0	2.4	2.4	1.8	1.8	5.1	6.8	14.6	35.7	35.0	16.2	12.5	10.3	16.0	0.8	1.3	1.7	1.7	4.8	1.3	3.1	2.9		7.6	35.7
27	4.4	2.2	1.0	0.5	0.3	1.6	6.0	11.4	3.7	12.7	7.2	7.4	10.0	12.4	7.8	12.2	6.5	6.2	11.5	6.9	0.5	0.4	1.0	0.9	5.6	12.7
28	1.1	1.3	1.1	0.9	1.1	1.2	5.0	3.0	8.2	7.4	5.5	3.3	2.8	3.7	4.4	6.9	3.1	1.4	1.3	0.9	1.2	1.1	1.0	0.9	2.8	8.2
29	7.2	1.7	1.6	1.2	1.5	3.4	3.6	3.0	4.0	7.7	18.8	19.2	16.8	32.7	19.3	34.4	5.1	5.3	1.3	3.3	1.7	9.4	7.7	4.3	8.9	34.4
30	0.6	0.6	1.2	2.7	2.5	1.5	4.5	11.7	4.9	8.2	7.1	10.4	12.0	12.6	16.4	20.6	16.7	22.9	22.6	16.5	14.1	11.6	0.9	3.3	9.4	22.9
31	1.8	1.2	1.4	0.7	0.7	2.0	1.8	2.2	1.6	1.4	8.4	20.1	17.9	18.7	22.8	30.5	13.3	5.7	7.8	7.9	9.7	16.0	6.0	1.2	8.4	30.5
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	2.4	2.4	2.0	1.3	1.1	1.6	2.6	4.0	3.4	5.6	7.0	7.9	7.6	9.6	8.4	9.5	4.8	6.8	8.0	4.8	2.4	2.5	2.7	2.5		
MAX	22.2	15.5	11.6	2.8	2.5	10.0	16.8	15.0	11.6	18.0	35.7	35.0	22.6	34.7	34.4	34.4	17.8	42.1	41.9	16.5	14.1	16.0	27.2	10.7		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	42.1 UG/M3	
Maximum 24-HR Average	10.1 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	6.2	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		4.6 UG/M3

Berm PM₁₀ (µg/m³) – May 2025

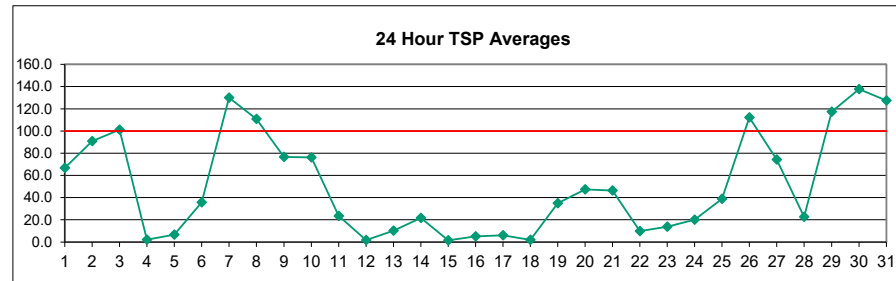
DAY	HOUR																								MEAN	MAX
1	2.0	1.3	1.9	2.0	1.8	1.2	5.1	9.3	5.7	61.0	59.1	35.5	29.1	38.4	57.8	80.3	62.9	67.5	78.5	51.4	11.7	9.0	17.9	25.0	29.8	80.3
2	10.2	50.8	8.0	3.5	1.4	2.1	3.1	4.5	10.0	45.4	89.5	82.1	71.1	47.0	32.1	47.0	52.8	66.9	72.1	44.6	3.5	23.0	29.4	41.8	35.1	89.5
3	4.3	2.7	2.8	2.6	1.3	4.0	9.5	14.0	7.5	13.0	29.1	100.7	88.2	41.6	42.5	41.9	25.5	166.8	203.9	71.8	27.1	3.6	13.8	10.9	38.7	203.9
4	1.9	6.4	4.5	1.9	0.7	0.2	0.2	0.1	0.2	0.5	0.4	1.1	0.4	1.2	0.4	0.9	2.9	0.3	0.4	0.3	0.8	0.7	0.6	0.6	1.2	6.4
5	0.4	1.2	3.2	1.0	0.9	0.8	0.5	3.2	9.5	6.9	8.1	6.6	6.2	2.8	2.7	7.8	6.4	5.2	9.2	0.5	0.4	0.4	0.4	0.5	3.5	9.5
6	0.5	1.1	0.9	0.6	0.6	1.4	2.7	6.8	4.1	19.3	41.4	25.4	16.5	35.9	32.3	59.2	30.0	45.7	41.3	2.4	1.8	2.8	2.2	2.7	15.7	59.2
7	3.7	1.7	24.5	5.1	2.9	49.9	91.4	76.8	10.2	41.0	32.2	90.2	101.0	181.8	192.5	65.7	20.4	13.5	48.2	16.1	2.3	1.4	6.8	49.1	47.0	192.5
8	111.4	76.1	62.6	7.5	2.6	3.4	0.7	1.4	6.6	13.9	28.6	18.7	72.5	157.7	105.9	92.1	25.8	54.0	27.6	29.3	3.3	2.3	2.1	2.8	37.9	157.7
9	3.0	3.2	2.8	2.4	2.3	1.5	17.0	37.6	15.4	38.7	50.2	89.2	76.7	60.9	72.3	93.1	28.0	51.7	65.1	82.8	6.0	3.7	2.6	1.0	33.6	93.1
10	0.6	0.6	0.8	0.8	0.7	1.0	2.1	6.8	4.9	3.4	3.0	31.9	61.7	40.9	50.2	28.5	15.6	44.7	111.4	72.5	35.3	23.3	130.9	49.6	30.0	130.9
11	23.4	61.3	39.0	0.9	0.7	0.9	2.1	5.0	3.1	4.3	4.2	3.9	4.8	3.6	2.7	2.4	2.2	1.5	24.1	50.0	4.2	1.1	1.2	2.6	10.4	61.3
12	2.5	1.1	1.2	1.4	1.6	1.4	1.5	2.0	2.1	1.6	0.5	1.2	1.0	2.2	2.2	4.1	1.6	0.6	0.1	0.1	0.2	0.2	0.1	0.2	1.3	4.1
13	0.3	0.2	0.1	0.5	0.5	0.6	1.5	0.9	1.9	2.6	1.2	4.1	13.4	83.5	12.5	1.6	1.7	1.5	1.4	0.7	0.6	10.3	4.7	12.2	6.6	83.5
14	1.3	0.7	0.9	1.0	0.6	0.7	0.7	2.8	4.0	6.8	20.2	15.4	24.6	16.2	12.3	16.8	8.4	56.7	13.2	2.2	0.8	0.5	0.4	0.2	8.6	56.7
15	0.1	0.1	0.0	0.0	0.1	0.1	0.3	1.0	2.0	0.8	1.8	1.0	1.1	1.4	1.8	3.7	1.6	1.4	1.4	1.5	1.5	1.1	1.8	1.9	1.1	3.7
16	1.3	0.9	1.2	1.6	0.7	1.1	1.9	1.5	4.7	18.6	18.7	8.0	1.8	1.0	1.2	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.5	2.8	18.7
17	0.7	0.7	0.4	0.5	0.8	0.4	0.6	0.4	0.5	8.9	24.0	10.6	3.7	9.7	1.5	1.9	1.5	3.6	2.0	1.6	1.0	0.9	1.5	1.9	3.3	24.0
18	1.9	1.4	0.7	0.6	0.6	3.6	1.2	3.4	3.6	3.8	1.6	2.3	0.5	0.3	0.4	0.5	4.1	4.3	3.4	0.4	0.5	0.6	1.3	2.8	1.8	4.3
19	1.9	2.1	1.2	0.6	0.6	0.7	1.5	7.9	6.3	6.1	35.7	31.4	24.8	29.7	42.1	29.2	16.1	16.7	31.3	33.2	13.9	6.9	3.0	3.3	14.4	42.1
20	6.0	2.2	0.5	0.2	0.5	0.4	3.4	24.2	37.8	25.8	33.9	32.6	39.3	30.5	50.3	66.7	28.4	12.3	31.4	2.4	1.0	0.6	0.6	0.7	18.0	66.7
21	0.8	1.3	2.6	4.4	2.0	0.6	18.3	47.5	59.5	100.3	5.4	1.5	23.1	77.2	43.3	47.3	5.8	1.8	1.4	0.6	0.4	0.4	0.4	0.5	18.6	100.3
22	0.4	0.4	1.2	3.2	2.2	1.4	4.3	23.0	21.6	30.3	5.7	3.2	1.4	4.0	2.7	2.2	1.7	1.3	0.7	0.5	0.3	0.4	0.3	1.4	4.7	30.3
23	3.3	3.0	1.7	1.8	2.3	15.8	7.3	15.8	17.6	26.9	14.0	7.3	10.4	6.6	1.9	2.2	2.2	1.5	1.1	0.7	0.9	1.1	0.9	1.2	6.1	26.9
24	0.7	1.6	2.6	3.2	2.3	2.1	2.7	2.5	1.2	11.0	32.4	13.9	20.3	8.1	41.3	39.3	10.1	27.3	8.9	2.5	1.5	0.8	1.3	1.6	10.0	41.3
25	16.4	5.0	2.9	1.9	1.3	1.2	2.7	4.2	2.4	7.1	7.4	10.4	9.8	14.7	27.9	23.6	12.9	54.4	138.0	19.9	2.0	1.2	1.9	2.4	15.5	138.0
26	1.5	2.6	4.7	3.6	2.1	2.0	2.5	14.7	24.4	69.6	208.6	223.1	100.7	61.3	55.1	106.5	1.5	3.0	5.7	4.7	13.4	3.0	9.4	10.6	38.9	223.1
27	17.3	7.7	2.0	0.5	0.3	4.8	36.5	64.5	15.2	71.3	33.9	38.2	45.9	66.5	40.8	64.5	24.5	30.5	58.2	31.8	0.8	0.6	2.5	1.4	27.5	71.3
28	2.1	3.0	2.0	1.3	2.1	2.4	18.5	10.2	27.8	31.5	21.0	9.8	9.6	17.6	20.2	36.3	13.8	4.4	3.5	2.7	3.1	1.9	1.6	1.2	10.3	36.3
29	12.0	4.1	3.9	2.3	3.4	10.7	16.0	9.4	16.0	39.3	98.3	90.8	85.9	183.1	106.4	237.5	24.1	23.6	1.3	15.7	5.4	50.4	41.7	16.5	45.7	237.5
30	0.6	0.7	2.6	9.9	9.1	3.7	15.7	59.7	24.7	46.3	38.6	62.9	60.8	76.1	92.8	113.8	93.2	144.8	148.7	90.9	56.0	53.9	1.7	7.8	50.6	148.7
31	4.0	2.2	2.3	1.0	1.1	4.4	3.8	6.5	3.3	3.3	46.8	121.1	103.2	96.5	128.3	199.3	78.0	25.8	28.1	34.9	46.4	74.5	24.4	1.8	43.4	199.3
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	7.6	8.0	6.0	2.2	1.6	4.0	8.9	15.1	11.4	24.5	32.1	37.9	35.8	45.1	41.2	48.9	19.5	30.1	37.5	21.6	8.0	9.1	9.9	8.3		
MAX	111.4	76.1	62.6	9.9	9.1	49.9	91.4	76.8	59.5	100.3	208.6	223.1	103.2	183.1	192.5	237.5	93.2	166.8	203.9	90.9	56.0	74.5	130.9	49.6		



Number of Non-Zero Readings	744
Maximum 1-HR Average	237.5 UG/M3
Maximum 24-HR Average	50.6 UG/M3
Monthly Calibration	0
Standard Deviation	33.7
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	19.8 UG/M3

Berm TSP (µg/m³) – May 2025

DAY	HOUR																								MEAN	MAX
1	2.2	1.9	1.9	2.1	1.9	1.2	14.6	14.0	10.9	158.3	142.7	80.4	63.2	73.5	120.9	191.2	127.0	165.0	133.8	107.2	30.9	26.3	51.1	77.6	66.7	191.2
2	24.8	169.9	19.8	7.3	4.0	2.5	6.4	7.9	15.6	126.3	238.1	222.4	184.2	133.8	71.5	113.3	140.2	167.5	160.7	106.4	6.7	48.4	76.5	125.5	90.8	238.1
3	4.4	4.2	3.4	3.2	1.3	9.2	18.1	23.3	17.1	16.0	32.9	257.7	255.3	115.8	108.3	79.8	52.4	413.1	624.7	241.5	67.5	10.0	36.5	29.5	101.0	624.7
4	2.0	16.0	12.9	2.1	0.7	0.2	0.2	0.1	0.2	0.5	0.4	1.1	0.4	1.2	0.4	1.0	5.1	0.3	0.4	0.3	0.8	0.7	0.6	0.6	2.0	16.0
5	0.4	1.2	3.2	1.0	0.9	0.8	0.5	3.8	19.9	14.3	13.3	15.9	14.4	6.7	4.6	13.9	14.1	10.7	17.8	0.5	0.4	0.4	0.4	0.5	6.7	19.9
6	0.5	1.1	0.9	0.6	0.6	1.4	4.6	15.2	6.4	49.7	84.7	45.1	33.9	83.3	74.7	159.3	86.3	97.5	98.9	3.5	1.9	3.0	2.3	2.7	35.8	159.3
7	4.5	1.7	64.6	11.3	4.4	179.8	312.2	235.6	22.9	89.7	80.3	233.3	247.0	521.0	561.3	181.0	36.0	23.4	114.3	35.1	2.3	1.4	9.8	145.6	129.9	561.3
8	337.7	232.2	200.2	20.5	6.3	11.5	0.7	1.4	14.0	30.9	71.2	66.5	210.1	469.2	318.9	280.8	86.3	135.0	79.3	71.8	6.2	3.5	2.1	4.7	110.9	469.2
9	4.2	3.7	2.8	2.4	2.3	1.5	44.4	74.6	21.5	74.0	95.7	203.8	199.1	158.7	176.5	242.4	70.7	114.4	155.3	169.4	9.8	5.7	3.1	1.0	76.5	242.4
10	0.6	0.6	0.8	0.8	0.7	1.0	2.1	7.1	4.9	3.4	3.0	95.1	194.0	84.4	142.6	49.1	47.6	92.5	305.9	186.0	78.8	45.6	350.0	133.3	76.2	350.0
11	64.4	148.7	120.4	0.9	0.7	0.9	2.2	6.1	3.1	4.7	5.3	3.9	6.6	4.9	3.4	2.4	2.2	1.5	51.0	114.3	7.5	1.4	1.2	3.9	23.4	148.7
12	2.5	1.1	1.2	1.4	1.6	1.4	1.5	2.0	2.1	1.6	0.5	1.2	1.0	3.6	4.5	8.0	4.3	0.7	0.1	0.1	0.2	0.2	0.1	0.2	1.7	8.0
13	0.3	0.2	0.1	0.5	0.5	0.6	1.5	0.9	3.2	3.1	2.6	7.6	28.4	105.6	16.6	1.6	2.3	1.8	3.7	0.7	0.6	26.8	9.3	24.3	10.1	105.6
14	1.4	0.7	0.9	2.4	0.6	0.7	0.7	5.2	8.3	12.1	51.3	33.9	53.3	29.7	35.4	45.5	13.9	171.6	44.5	4.4	0.8	0.5	0.7	0.2	21.6	171.6
15	0.1	0.1	0.0	0.0	0.1	0.1	0.3	1.4	2.0	0.8	4.3	1.0	1.1	1.4	2.6	6.8	2.2	2.0	2.1	3.3	1.8	1.1	1.8	1.9	1.6	6.8
16	1.3	0.9	1.2	1.6	0.7	1.1	1.9	1.5	7.6	45.6	30.3	19.2	4.8	1.5	1.2	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.5	5.2	45.6
17	0.7	0.7	0.4	0.5	0.8	0.4	0.6	0.4	0.5	16.2	52.0	18.2	4.2	16.4	1.5	4.4	4.0	9.1	4.1	2.9	1.0	0.9	1.5	1.9	6.0	52.0
18	1.9	1.4	0.7	0.6	0.6	3.6	1.2	3.4	3.6	6.0	1.6	2.3	0.5	0.3	0.4	0.5	4.1	5.0	4.5	0.4	0.5	0.6	1.3	2.8	2.0	6.0
19	1.9	2.1	1.2	0.6	0.6	0.7	2.4	11.6	15.2	11.9	88.1	80.9	65.5	62.2	100.3	89.4	45.5	31.8	69.7	85.5	44.3	10.7	6.1	9.7	34.9	100.3
20	11.2	3.6	0.5	0.2	0.5	0.4	15.8	63.4	109.0	70.6	92.9	83.8	103.0	89.2	142.9	165.5	71.0	37.3	70.2	4.8	1.4	0.6	0.6	0.7	47.5	165.5
21	0.8	1.3	3.5	4.6	2.0	0.6	41.4	129.1	130.4	270.8	16.2	3.4	49.4	210.9	102.7	124.4	13.2	2.6	1.6	0.6	0.4	0.4	0.4	0.5	46.3	270.8
22	0.4	0.4	1.2	3.2	2.2	1.4	5.4	60.5	42.6	70.9	11.8	3.8	1.5	6.4	7.8	3.1	1.7	2.5	1.8	0.5	0.3	0.4	0.3	3.0	9.7	70.9
23	3.9	9.8	2.8	2.0	4.0	54.6	12.7	27.6	45.5	75.5	24.9	13.2	16.3	13.4	2.1	2.7	4.3	3.7	2.4	0.7	1.6	1.2	1.6	1.5	13.7	75.5
24	0.7	1.6	3.6	7.0	2.5	2.3	5.1	2.8	1.2	18.5	58.6	28.2	39.6	16.8	87.9	91.9	20.5	66.2	15.4	2.8	3.8	0.8	1.6	2.8	20.1	91.9
25	90.7	15.6	6.3	1.9	1.3	1.2	4.8	9.6	6.9	19.9	11.6	21.6	24.8	39.0	63.1	69.7	37.5	131.7	327.5	38.7	2.0	1.2	2.5	3.6	38.9	327.5
26	1.5	3.9	7.3	7.0	2.6	2.0	3.8	25.6	38.5	175.3	663.4	548.2	347.1	198.9	169.9	389.3	3.0	7.9	14.7	11.5	14.8	6.6	26.4	23.2	112.2	663.4
27	44.4	13.7	2.0	0.5	0.3	8.5	122.0	235.8	38.9	225.5	95.0	110.4	92.2	213.1	110.6	151.5	41.1	68.6	128.5	71.6	1.1	0.7	5.1	1.8	74.3	235.8
28	4.5	7.6	4.7	1.7	4.5	4.2	42.6	21.2	43.5	73.7	39.9	19.6	21.8	33.2	44.7	73.3	36.8	15.8	16.5	12.3	5.6	3.5	2.8	8.8	22.6	73.7
29	12.6	9.2	8.6	5.0	7.4	32.3	43.1	15.5	36.3	87.7	234.6	185.5	206.6	471.1	283.3	688.2	78.2	68.1	1.3	41.8	12.0	139.6	106.1	41.5	117.3	688.2
30	0.6	0.7	2.9	19.6	23.3	4.7	41.0	129.4	58.0	115.3	87.7	162.6	132.4	205.8	278.2	312.3	297.2	464.9	473.8	252.9	109.3	115.0	2.4	13.6	137.6	473.8
31	4.5	2.2	2.3	1.2	1.5	8.9	5.1	13.9	5.2	4.2	121.3	367.6	320.0	253.9	396.3	617.1	248.3	83.7	87.6	113.7	147.6	189.4	52.0	9.6	127.4	617.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	20.4	21.2	15.6	3.7	2.6	11.0	24.5	37.1	23.7	60.4	79.2	94.8	94.3	116.9	110.8	134.2	51.5	77.3	97.2	54.4	18.1	20.9	24.4	21.8		
MAX	337.7	232.2	200.2	20.5	23.3	179.8	312.2	235.8	130.4	270.8	663.4	548.2	347.1	521.0	561.3	688.2	297.2	464.9	624.7	252.9	147.6	189.4	350.0	145.6		



Number of 24HR Exceedences	7	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	688.2 UG/M3	
Maximum 24-HR Average	137.6 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	95.6	Monthly Average
		744 HRS
		100.0 %
		50.7 UG/M3