

AMRIZE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

JULY 2025

AUGUST 29, 2025





AMBIENT AIR QUALITY MONTHLY REPORT

JULY 2025

AMRIZE CANADA INC.

PROJECT NO.: CA0049359.3401
DATE: AUGUST 29, 2025

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August 29, 2025

AMRIZE CANADA INC.
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Exshaw, AB T0L 2C0

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – July 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 July 2025.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	99.1%	-	4
PM _{2.5}	90.6%	0	0
PM ₁₀	99.5%	-	-
NO	96.2%	-	-
NO ₂	96.2%	0	-
NO _x	96.2%	-	-
SO ₂	99.5%	0	0
Temperature	99.5%	-	-
Wind Speed / Direction	99.5%	-	-
Pressure	99.5%	-	-
Relative Humidity	99.5%	-	-
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 July 2025.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	95.4%	-	-	5
PM_{2.5}	99.3%	0	0	-
PM₁₀	92.9%	-	-	-

The GRIMM monitors are considered Industrial Ambient Monitors and are meant for assessing the performance of Amrize 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 July 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	4
Entrance	0%	0	0	0

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

Sincerely,



Tyler Abel, M.Sc.
Senior Air Quality Specialist,
Vancouver Region

SIGNATURES

PREPARED BY



July 28, 2025

Beatrice Boersig
Environmental EIT
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Date

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



July 28, 2025

Tyler Abel, M.Sc.
Senior Air Quality Specialist
Vancouver Region, Environment

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Amrize Canada Inc. (Amrize) and are a requirement of Amrize's Approval 1702-02-04. This report contains data collected between July 1, 2025 and July 31, 2025.

This monthly report was prepared by Beatrice Boersig, Environmental EIT with WSP, on behalf of Amrize and was reviewed by Tyler Abel, Senior Air Quality Specialist at WSP.

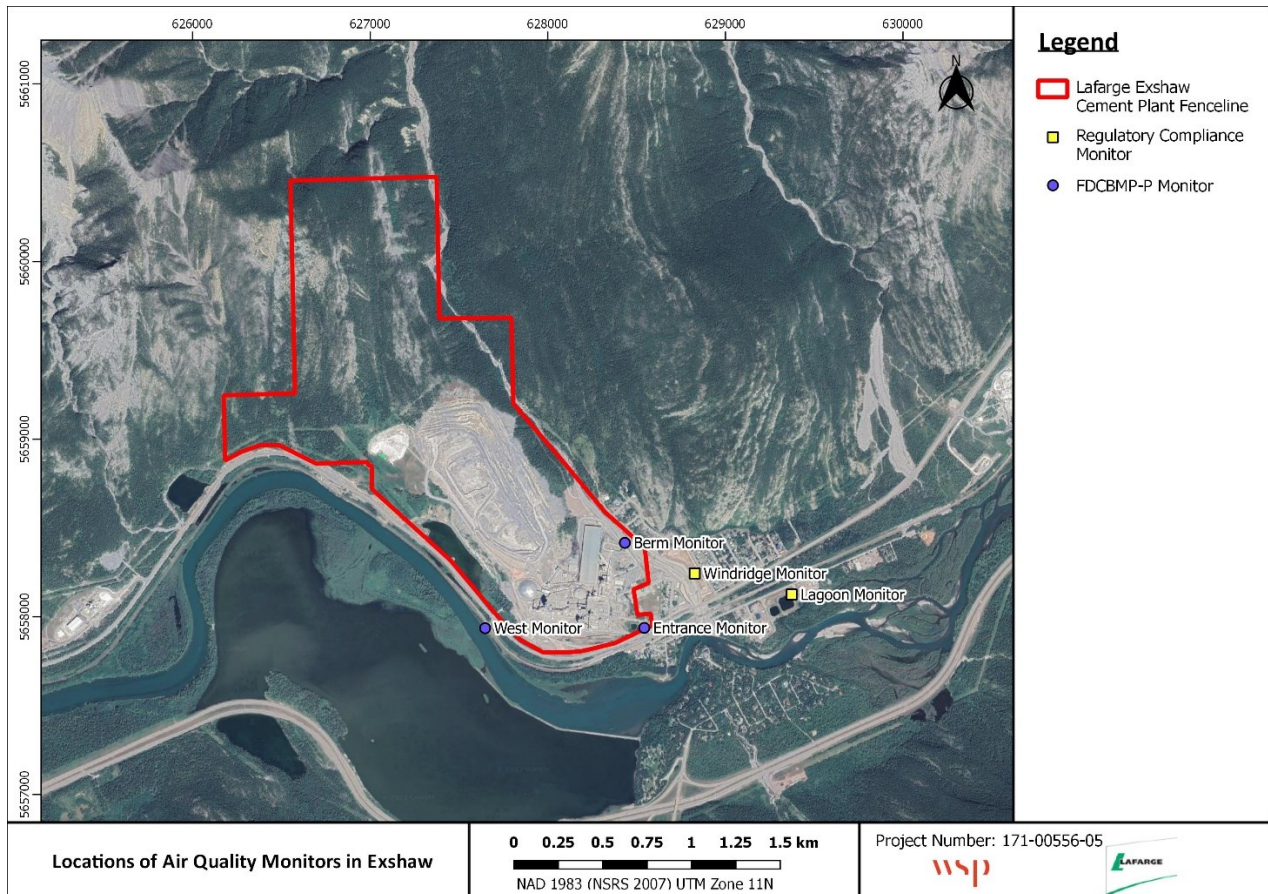


Figure 1-1 Locations of Air Quality Monitors in Exshaw

1.1 EXSHAW CREEK FLOOD MITIGATION

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



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

2 JULY 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)	96.2	27.8	0	9.4	-
SO ₂ (ppb)	99.5	17.2	0	3.4	0
PM _{2.5} (µg/m ³)	90.6	43.7	0 ¹	15.9	0
PM ₁₀ (µg/m ³)	99.5	480.9	-	158.2	-
TSP (µg/m ³)	99.1	999.2	-	313.1	4
Temperature (°C)	99.5	30.5	-	23.4	-
Wind Speed (km/hr) /Direction (Degrees)	99.5	28.5/W	-	18.0/WSW	-
Precipitation (mm)	99.5	7 ²	-	142.75 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 exceedance of the 1-hour PM_{2.5} AAAQG.
- There were 4 exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station, the SO₂ analyzer, and the meteorological sensors recorded 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18th at 18:00 – 20:00 and another power outage on July 22nd at 10:00.
- The PM₁₀ analyzer recorded 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18th at 19:00 – 21:00.
- The TSP analyzer recorded 99.1% uptime during the month of July due to 3 hours of downtime on July 16th at 14:00 – 16:00 during the PM_{2.5} and PM₁₀ calibration, a 3-hour power outage interrupting the sensor recordings on July 18th at 19:00 – 21:00 and another power outage on July 22nd at 10:00.
- The NO₂ analyzer recorded 96.2% uptime during the month of July due to 24 hours of equipment maintenance starting from July 10th at 12:00 until July 11th at 11:00, a 3-hour power outage interrupting the sensor recordings on July 18th at 18:00 – 20:00 and another power outage on July 22nd at 10:00.
- The PM_{2.5} analyzer recorded 90.6% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18th at 19:00 – 21:00 and another power outage on July 22nd at 10:00. Furthermore, 61 hours of equipment malfunction due to a depleted internal battery of the PM_{2.5} analyzer from July 28th at 20:00 until July 31st at 8:00, followed by 5 hours of non-routine maintenance on July 31st at 9:00 – 13:00 to replace the battery.

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)	99.3	41.0	0*	14.9	0
PM ₁₀ (µg/m ³)	92.9	311.0	-	85.4	-
TSP (µg/m ³)	95.4	569.0	-	147.5	5

* 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 5 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Windridge station, the PM_{2.5} analyzer recorded 99.3% uptime for the month of July due to 2 hours of non-routine maintenance on July 16th at 14:00 – 15:00, and a 3-hour power outage interrupting the sensor recordings on July 18th at 18:00 – 20:00.
- The TSP analyzer recorded 95.4% uptime for the month of July due to a total of 27 hours of equipment malfunction, 13 hours occurring from July 15th at 00:00 – 12:00, and 14 hours occurring from July 15th at 22:00

until July 16th at 11:00. Furthermore, 3 hours of downtime on July 15th at 13:00 – 15:00 during PM_{2.5} monitor calibration, 1 hour of non-routine maintenance on July 18th at 12:00 for TSP tape adjustments and a 3-hour power outage interrupting the sensor recordings on July 18th at 18:00 – 20:00.

- The PM₁₀ analyzer recorded 92.9% uptime for the month of July due to a total of 48 hours of equipment malfunction, 27 hours occurring from July 14th at 10:00 until July 15th at 12:00, and 21 hours occurring from July 15th at 15:00 until July 16th at 11:00. Furthermore, 2 hours of non-routine maintenance on July 15th at 13:00 – 14:00, and a 3-hour power outage interrupting the sensor recordings on July 18th at 18:00 – 20:00.

2.3 WEST GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Amrize 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 July.

2.4 BERM GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Amrize 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	35.7	0*	10.1	0
PM ₁₀ (µg/m ³)	100.0	225.1	-	55.8	-
TSP (µg/m ³)	100.0	673.4	-	161.9	4

* 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 4 exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

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

2.5 ENTRANCE GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Amrize 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 July.

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 July 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 July 16 th . The monitor had 90.6% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 19:00 – 21:00 and another power outage on July 22 nd at 10:00. Furthermore, 61 hours of equipment malfunction due to a depleted internal battery of the PM _{2.5} analyzer from July 28 th at 20:00 until July 31 st at 8:00, followed by 5 hours of non-routine maintenance on July 31 st at 9:00 – 13:00 to replace the battery.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on July 16 th . The monitor had 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 19:00 – 21:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on July 18 th . The monitor had 99.1% uptime during the month of July due to 3 hours of downtime on July 16 th at 14:00 – 16:00 during the PM _{2.5} and PM ₁₀ calibration, a 3-hour power outage interrupting the sensor recordings on July 18 th at 19:00 – 21:00 and another power outage on July 22 nd at 10:00.

Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on July 10 th . The monitor had 96.2% uptime during the month of July due to 24 hours of equipment maintenance starting from July 10 th at 12:00 until July 11 th at 11:00, a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00 and another power outage on July 22 nd at 10:00.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on July 10 th . The monitor had 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00 and another power outage on July 22 nd at 10:00.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.
Wind Speed	MetOne Wind Sensor	The monitor had 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.
Wind Direction		
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 99.5% uptime during the month of July due to a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.



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 July 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 Error! Reference source not found. shows daily average concentrations recorded during July 2025 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to

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

show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There were 4 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 were no exceedances of the 1-hour PM_{2.5} AAAQG (80 µg/m³) at the station this month.

Historically in July, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are 1 and 2, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in July were 5 days in 2021. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in July were 16 days in 2021.

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 Amrize 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 July 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	5.8	27.8	30	16	11.9	63.7	9.4	1	96.2
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	1.2	17.2	30	11	2.2	140.8	3.4	7	99.5
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	4.6	43.7	21	15	6.3	216.0	15.9	21	90.6
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	32.6	480.9	8	16	21.7	240.3	158.2	8	99.5
TSP (µg/m ³)	-	100	Lagoon	-	4	0.0	55.4	999.2	8	16	21.7	240.3	313.1	8	99.1
Temperature (°C)	-	-	Lagoon	-	-	-11.2	15.9	30.5	1	18	12.8	254.4	23.4	8	99.5
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	0.0	10.3	28.5/W	2	20	28.5	221.8	18.0/WSW	9	99.5
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.2	7.0 ¹	20	17	8.3	246.1	142.8 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/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Amrize)
Lagoon						
2025-07-02	124.5	-	230.1	12.5	41.3	
2025-07-07	113.0	-	246.3	9.7	48.7	
2025-07-08	313.1	-	245.6	16.9	31.1	
2025-07-09	182.2	-	237.8	18.0	37.8	
Total # of Exceedances	4	0				
Maximum # of Exceedances (July)	5 (2021)	16 (2021)				
Average # of Exceedances (July)	1	2				
Minimum # of Exceedances (July)	0 (2010, 2012, 2015, 2016, 2017, 2018, 2019, 2020)	0 (2010, 2011, 2012, 2013, 2015, 2016, 2018, 2019, 2020, 2022)				

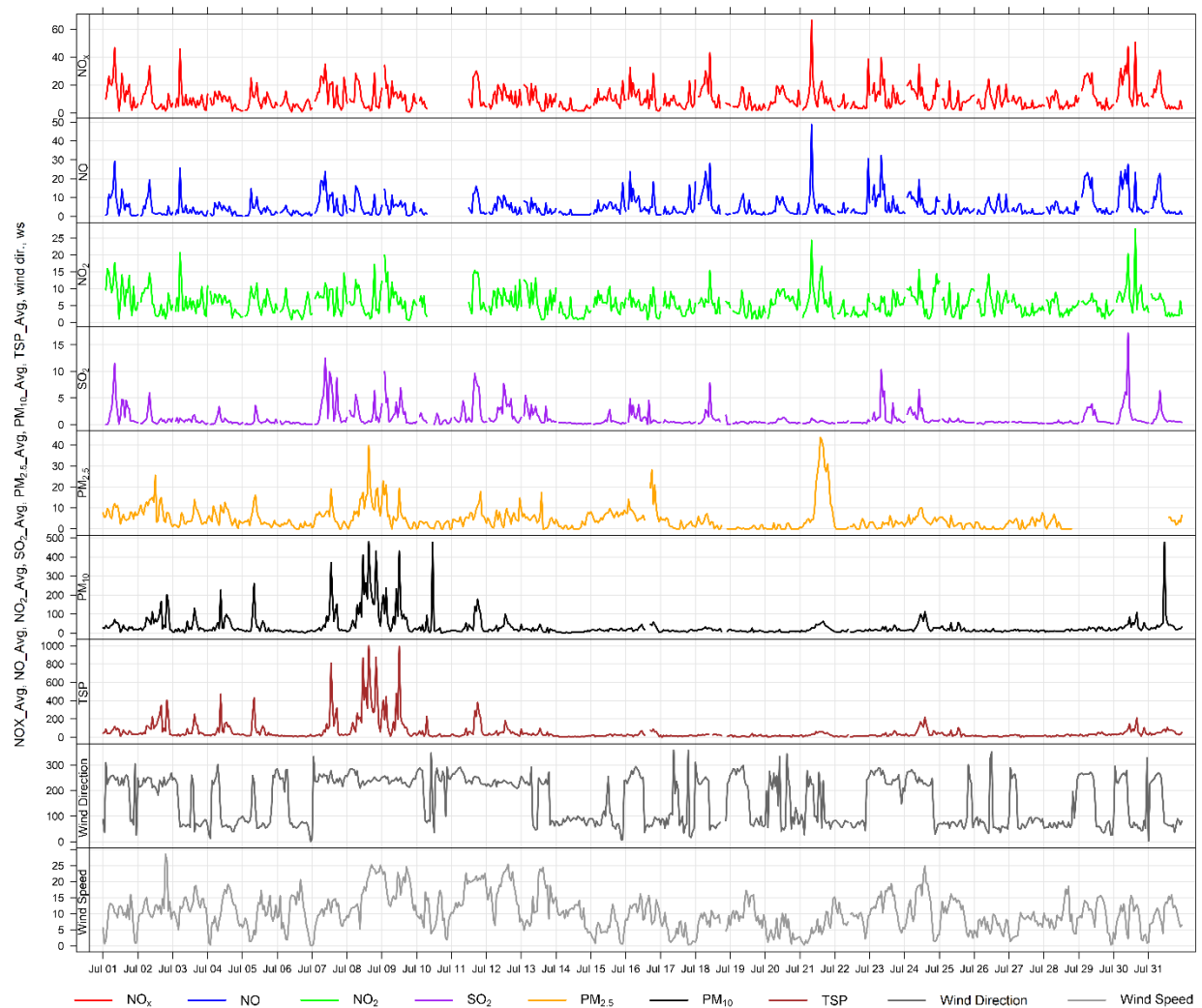


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

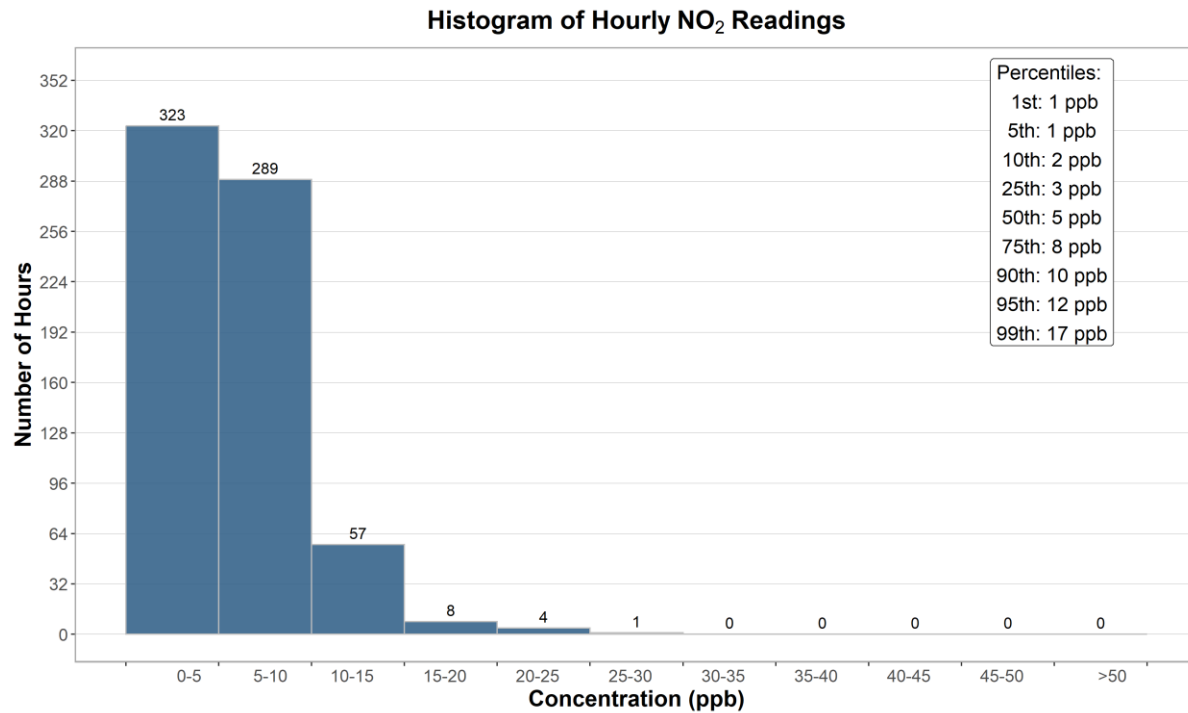


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

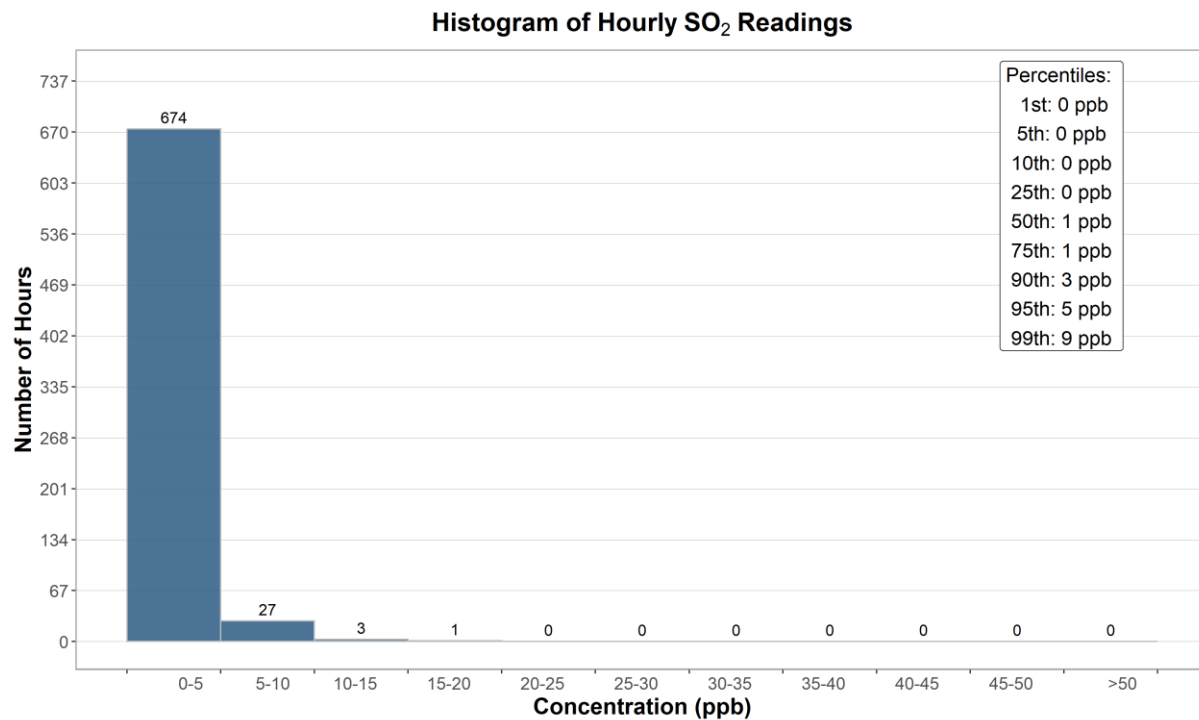


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

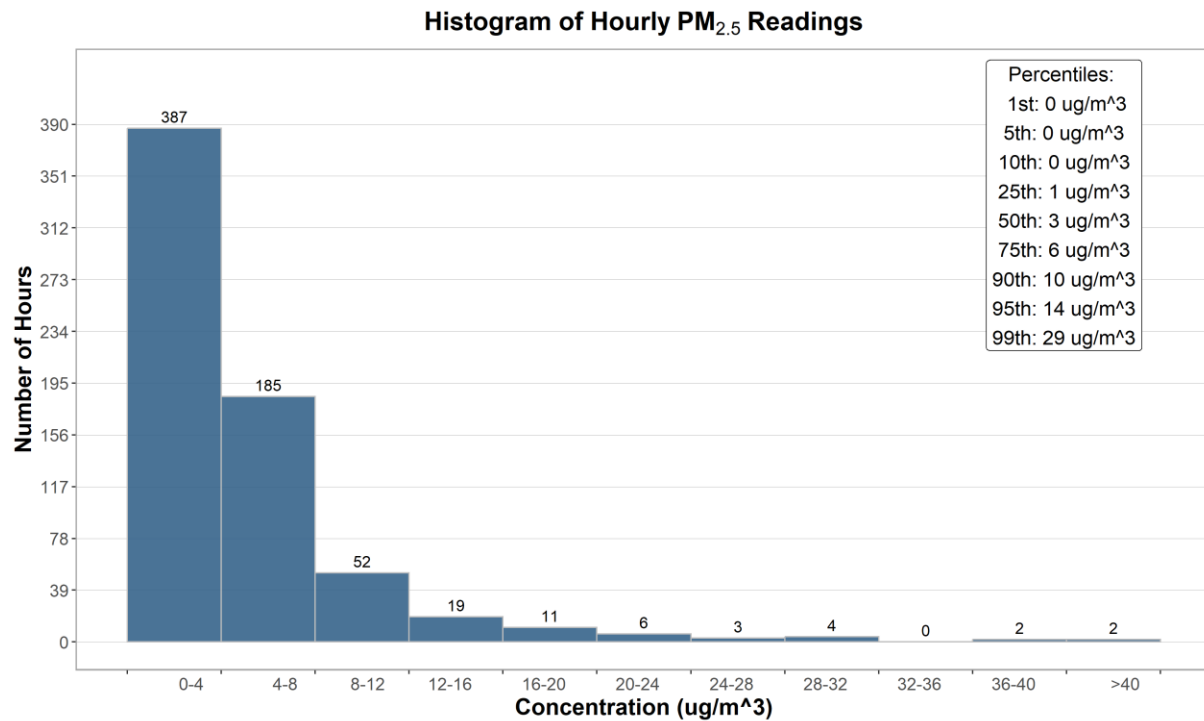


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

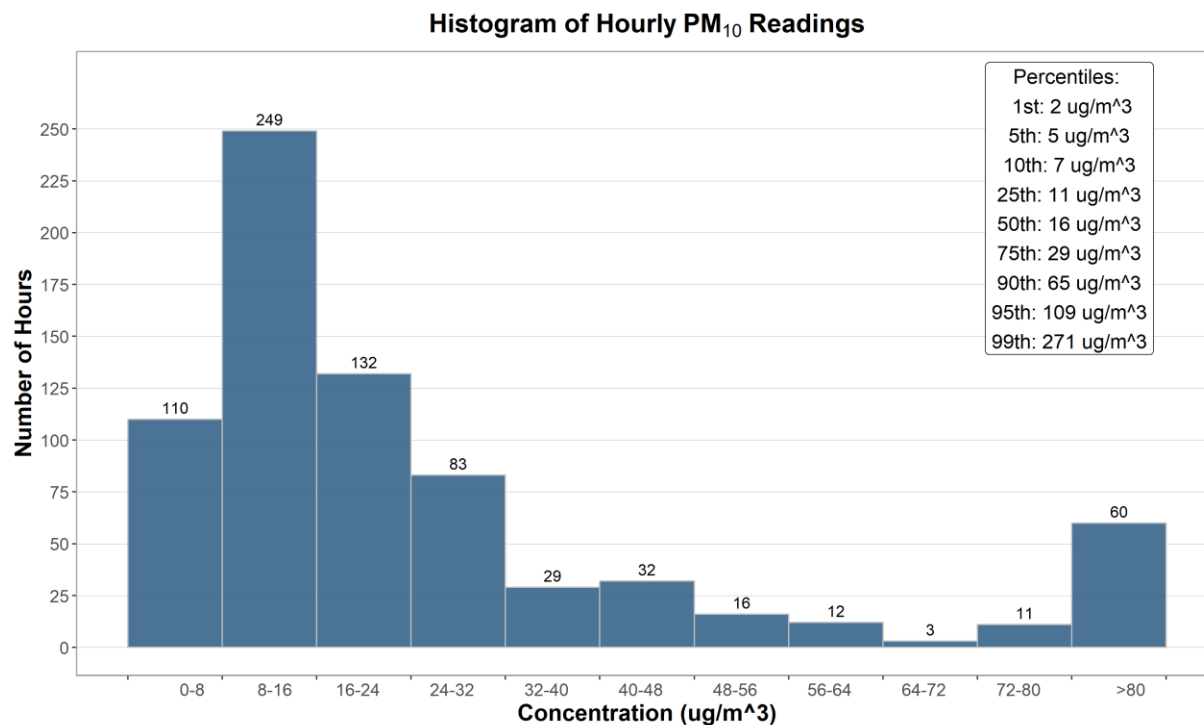


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

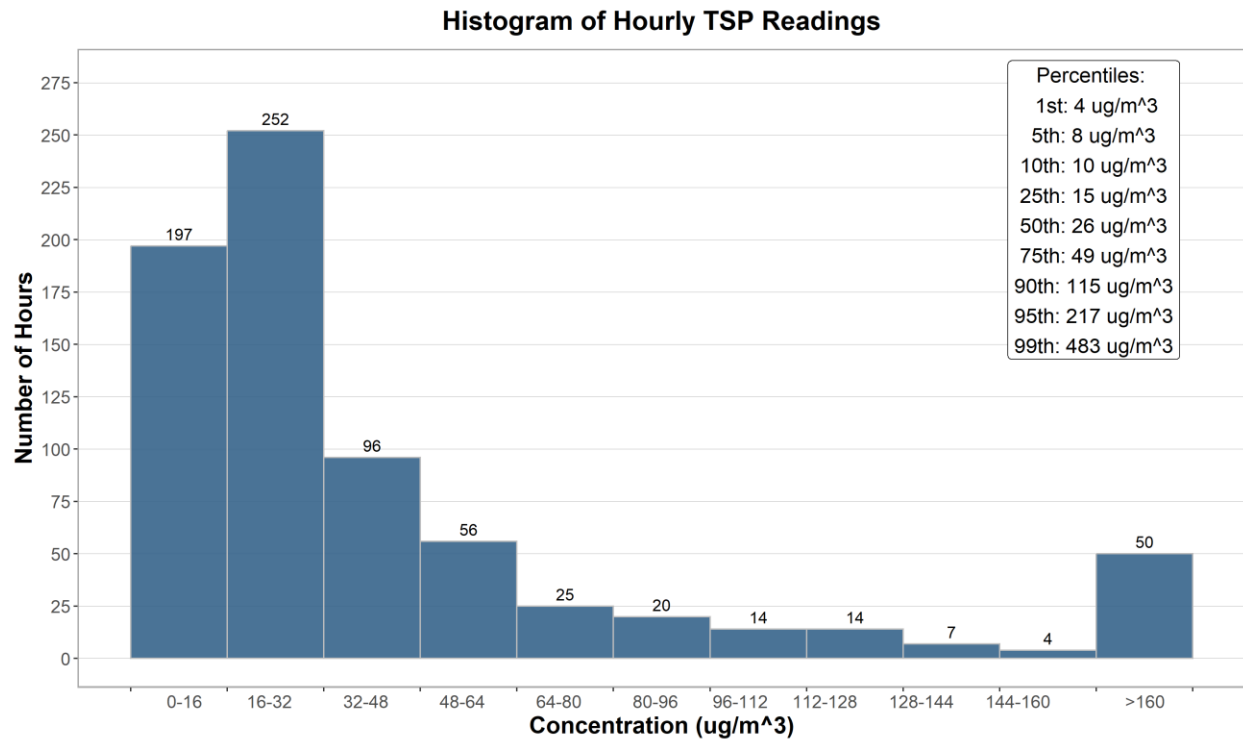


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

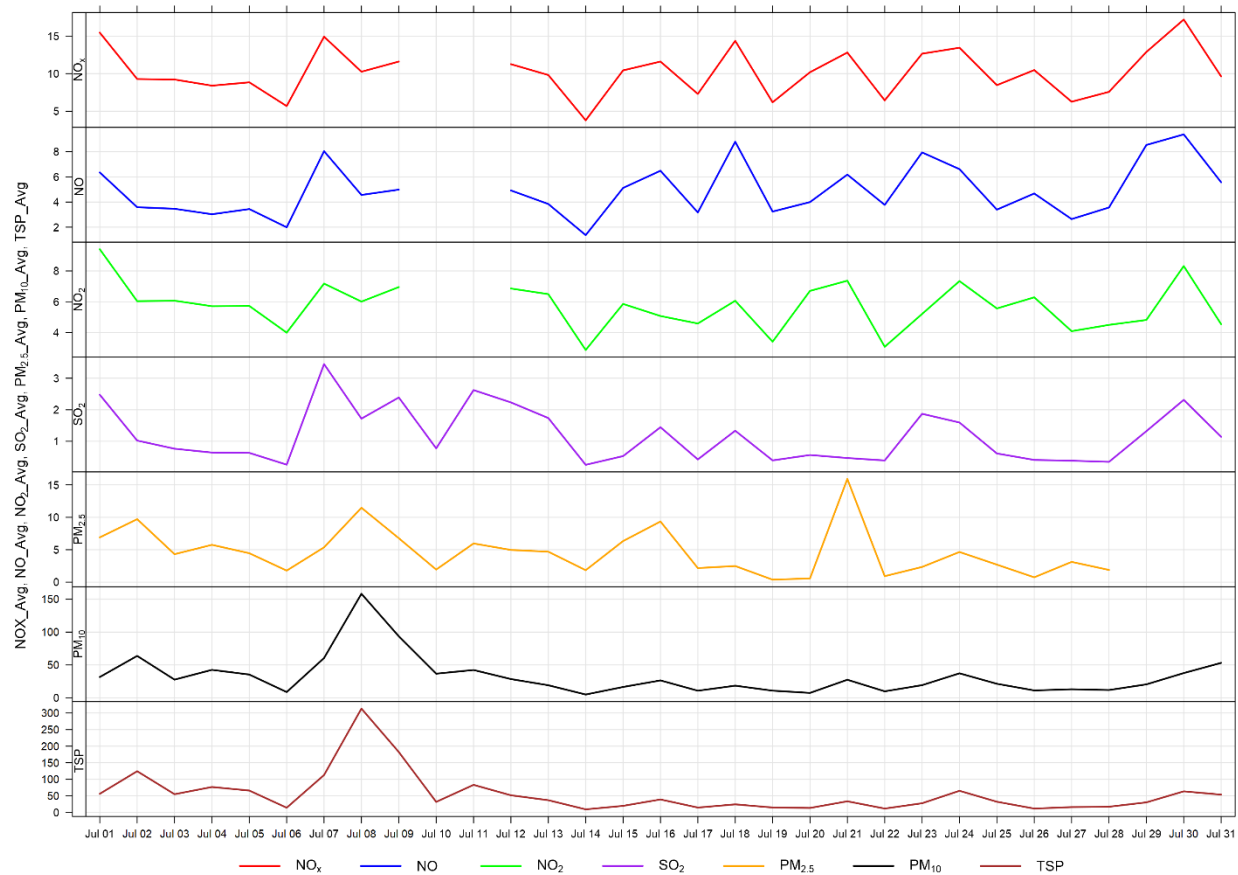


Figure 3-8 24-hour concentrations of NOx, SO2, and particulate matter at the Lagoon monitor

Figure 3-9 shows the wind rose for the 4 days of TSP exceedance in July. The wind rose shows that the winds predominately came from the west-southwest, suggesting possible impacts of windblown dust from the direction of the Amrize 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 Amrize 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.

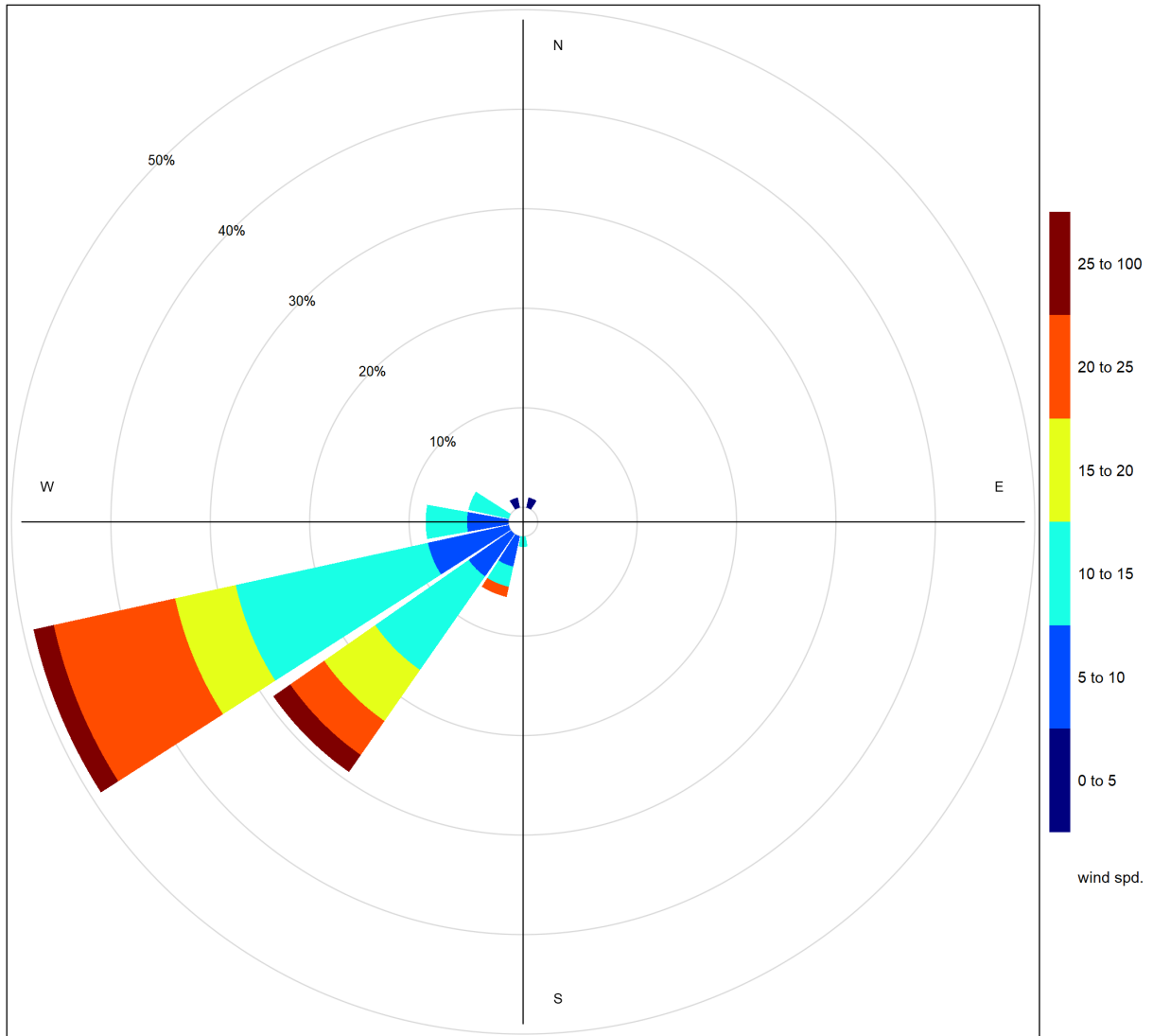


Figure 3-9 Wind rose for TSP exceedance days recorded at the Lagoon Station

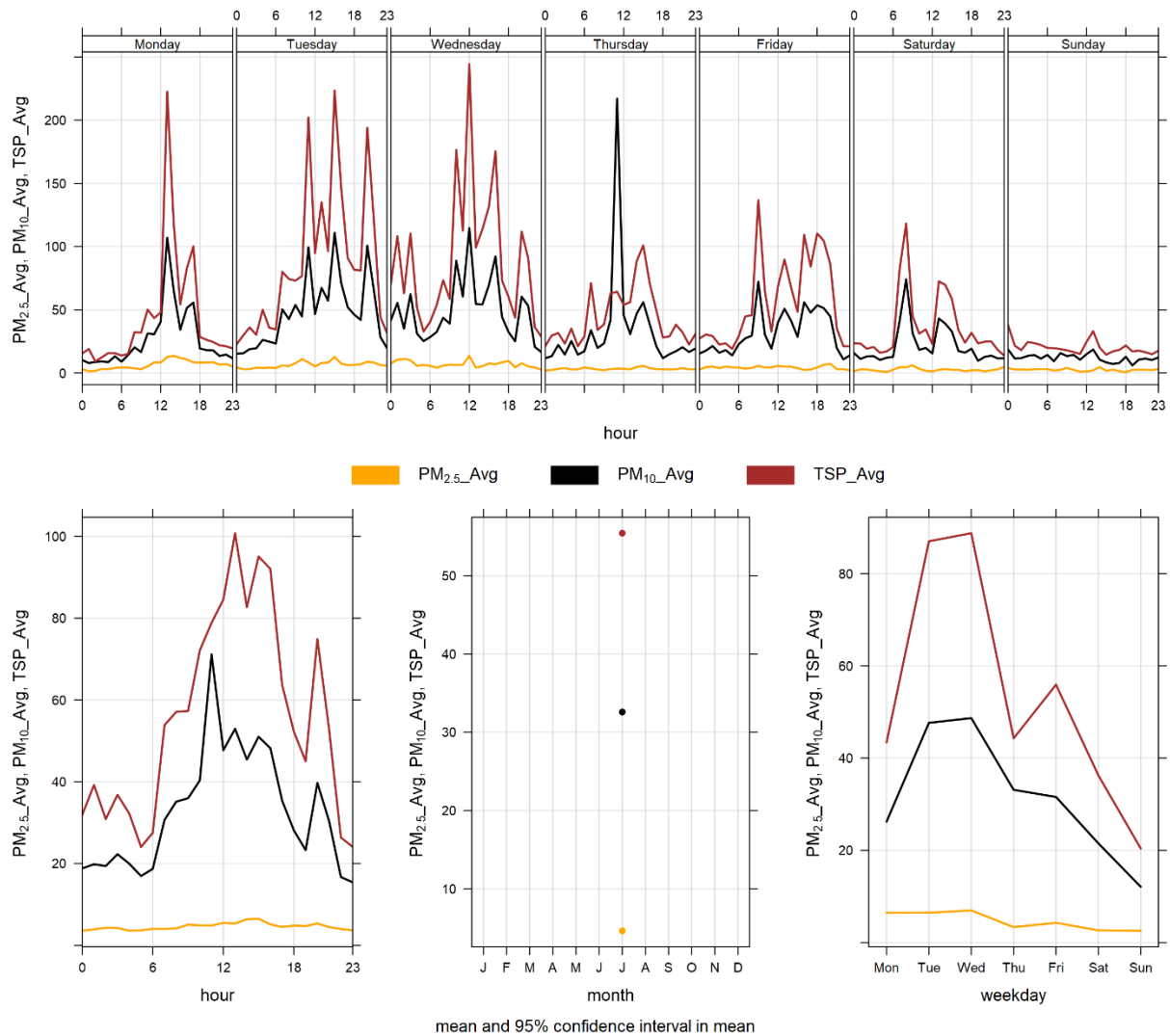


Figure 3-10 Lagoon monitor particulate matter time variation

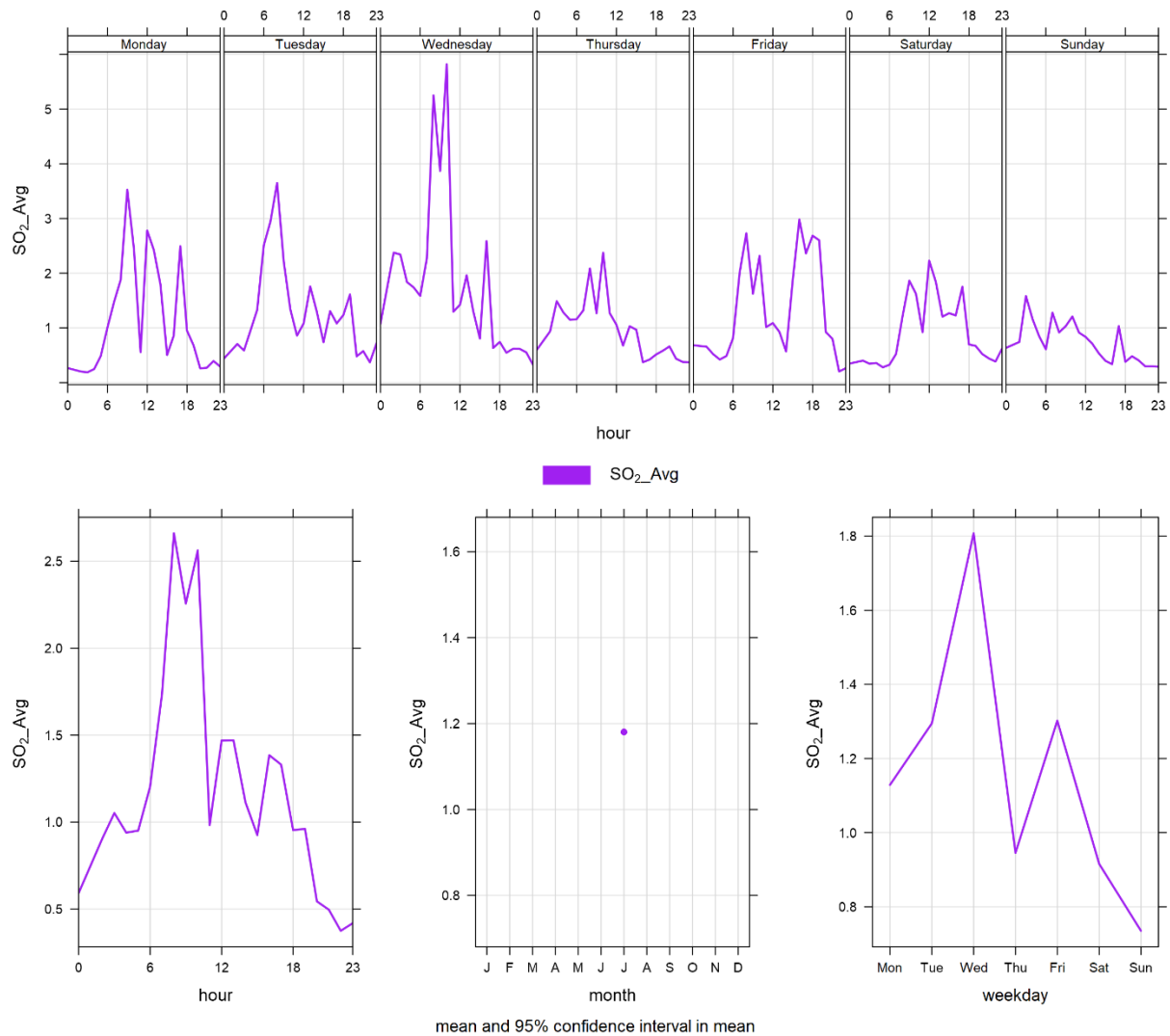


Figure 3-11 Lagoon monitor SO₂ time variation

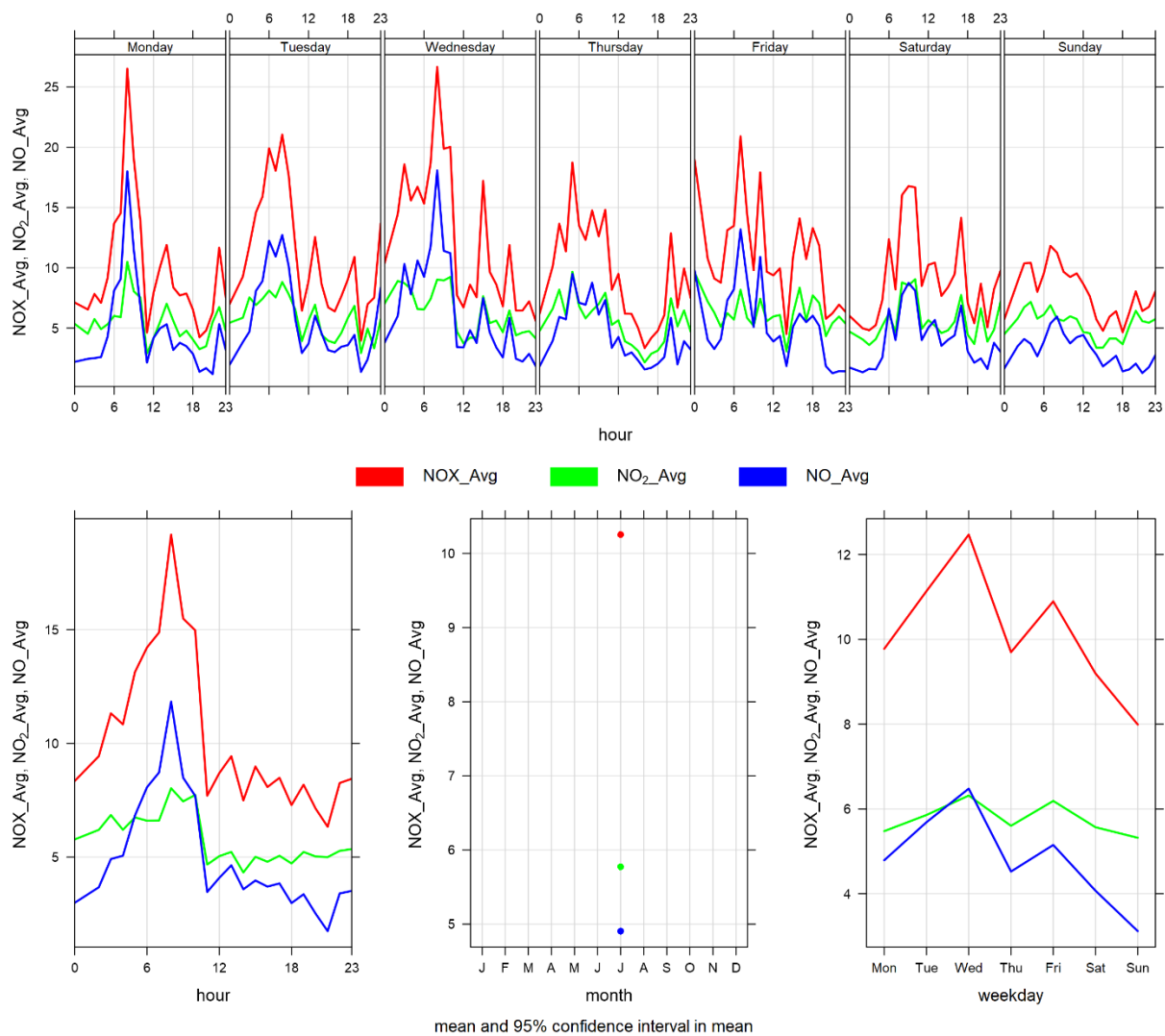


Figure 3-12 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for July 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 July 15 th . The monitor had 99.3% uptime for the month of July due to 2 hours of non-routine maintenance on July 16 th at 14:00 – 15:00, and a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on July 16 th . The monitor had 92.9% uptime for the month of July due to a total of 48 hours of equipment malfunction, 27 hours occurring from July 14 th at 10:00 until July 15 th at 12:00, and 21 hours occurring from July 15 th at 15:00 until July 16 th at 11:00. Furthermore, 2 hours of non-routine maintenance on July 15 th at 13:00 – 14:00, and a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on July 16 th . The monitor had 95.4% uptime for the month of July due to a total of 27 hours of equipment malfunction, 13 hours occurring from July 15 th at 00:00 – 12:00, and 14 hours occurring from July 15 th at 22:00 until July 16 th at 11:00. Furthermore, 3 hours of downtime on July 15 th at 13:00 – 15:00 during PM _{2.5} monitor calibration, 1 hour of non-routine maintenance on July 18 th at 12:00 for TSP tape adjustments and a 3-hour power outage interrupting the sensor recordings on July 18 th at 18:00 – 20:00.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in July 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 5 exceedances of the 24-hour TSP AAAQO.

Historically in July, the average number of both 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 4. The maximum number of 24-hour TSP AAAQO exceedances recorded in July were 9 days in 2024. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in July were 16 days in 2021.

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 July would have contributed to increased particulate levels that may have arisen from multiple sources: Amrise Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 4-2 Summary of July 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	4.1	41.0	21	14	4.2	270.9	14.9	21	99.3
PM ₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	25.4	311.0	11	19	20.3	252.9	85.4	11	92.9
TSP (µg/m³)	-	100	Windridge	-	5	0.0	42.6	569.0	11	19	20.3	252.9	147.5	11	95.4

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 Amrize)
Windridge						
2025-07-02	107.8	-	230.1	12.5	41.3	
2025-07-08	116.0	-	245.6	16.9	31.1	
2025-07-09	139.0	-	237.8	18.0	37.8	
2025-07-11	147.5	-	247.9	17.5	45.6	
2025-07-12	127.2	-	226.8	17.3	32.3	
Total # of Exceedances	5	0				
Maximum # of Exceedances (July)	9 (2024)	16 (2021)				
Average # of Exceedances (July)	4	4				
Minimum # of Exceedances (July)	0 (2018)	0 (2018, 2022)				

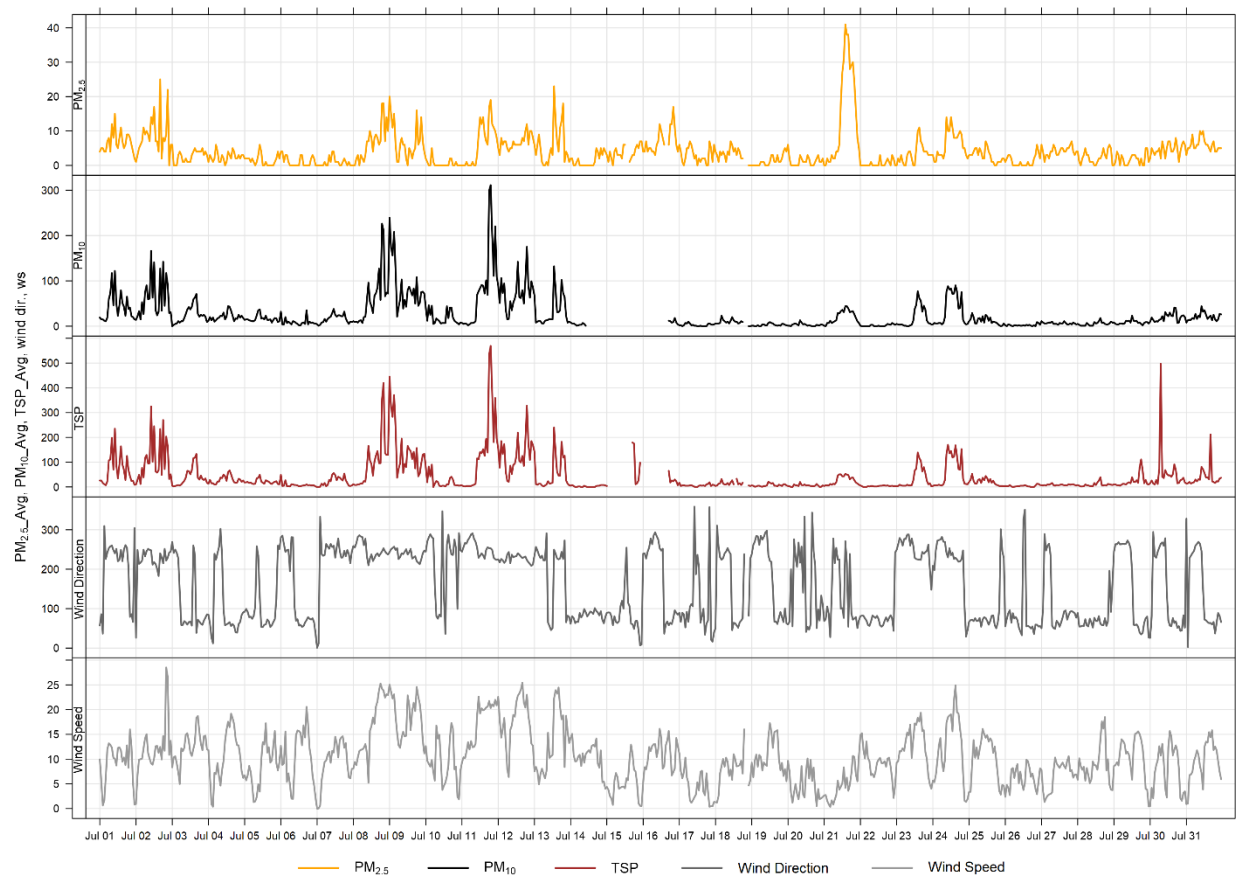


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

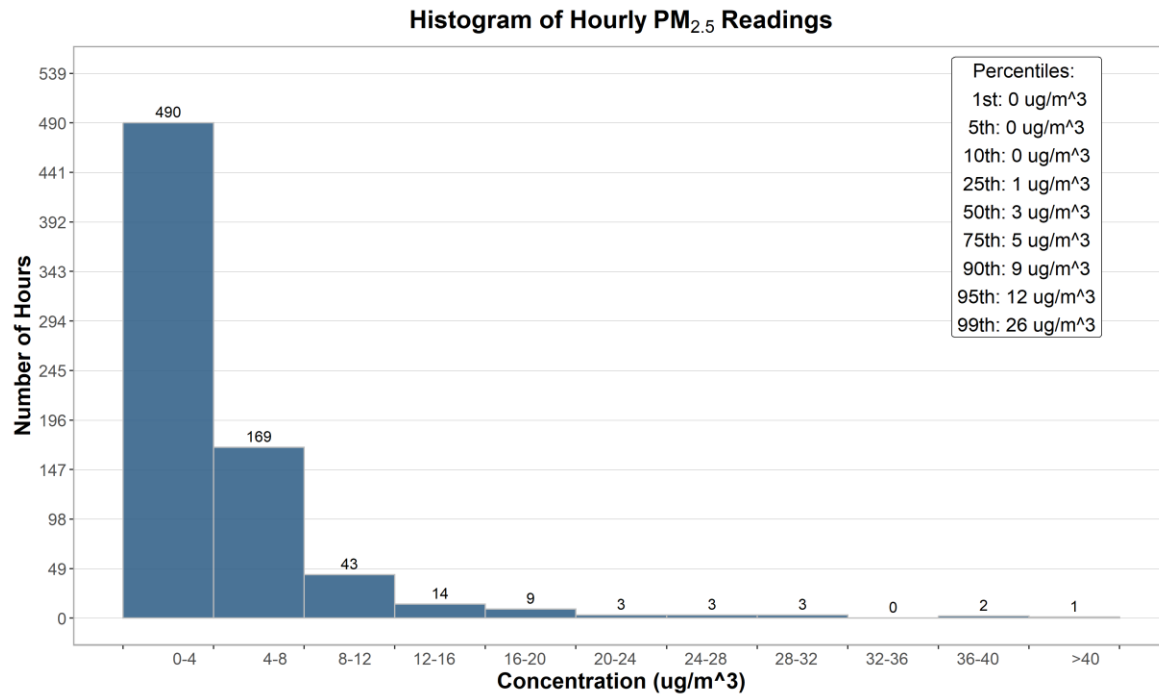


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

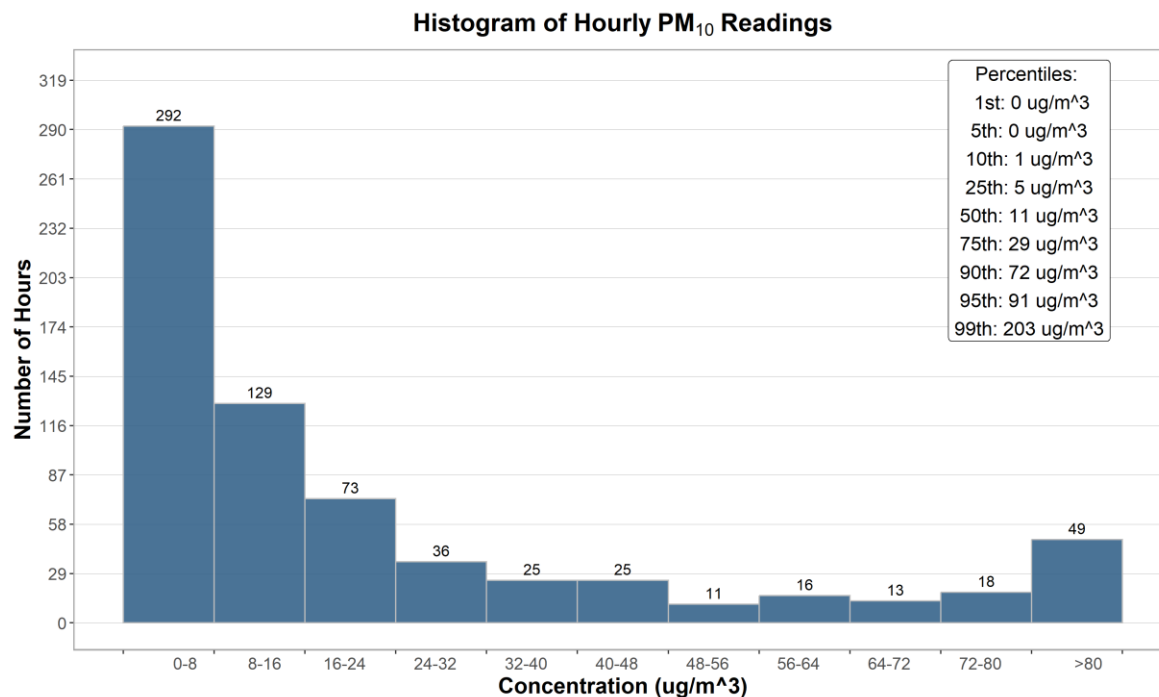


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

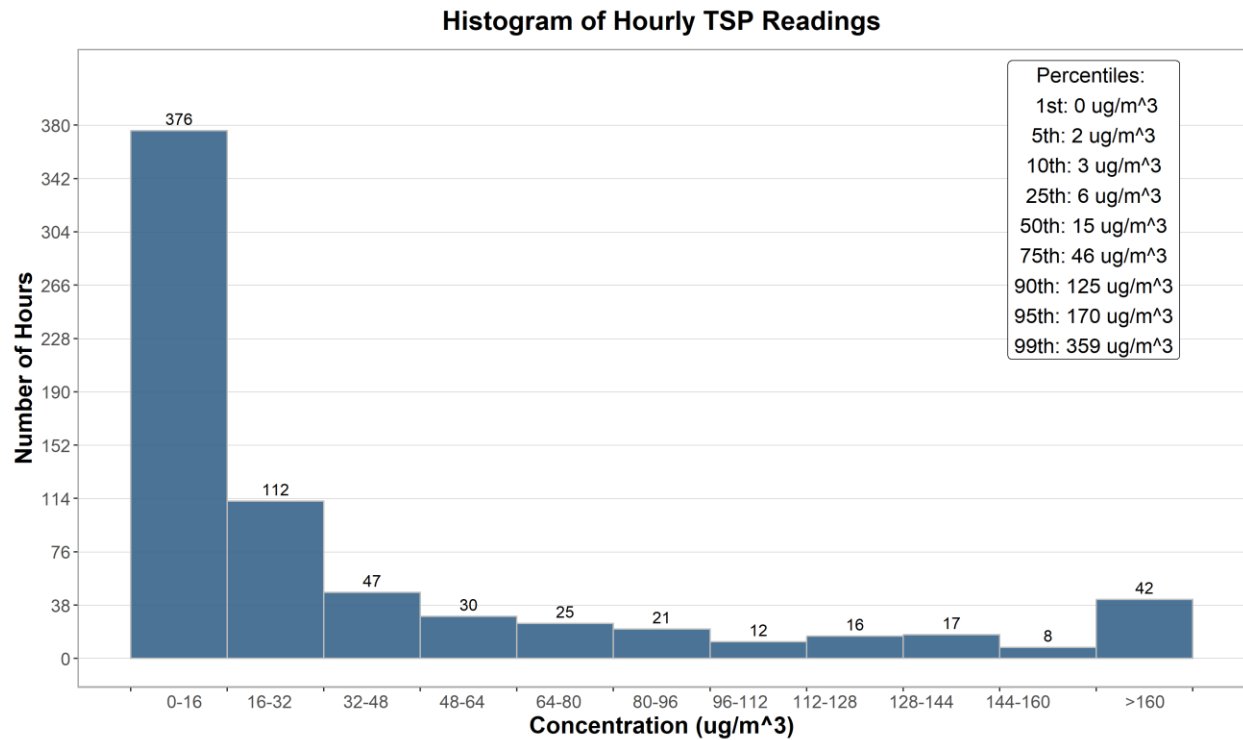


Figure 4-4 **Histogram of hourly TSP concentrations at the Windridge station**

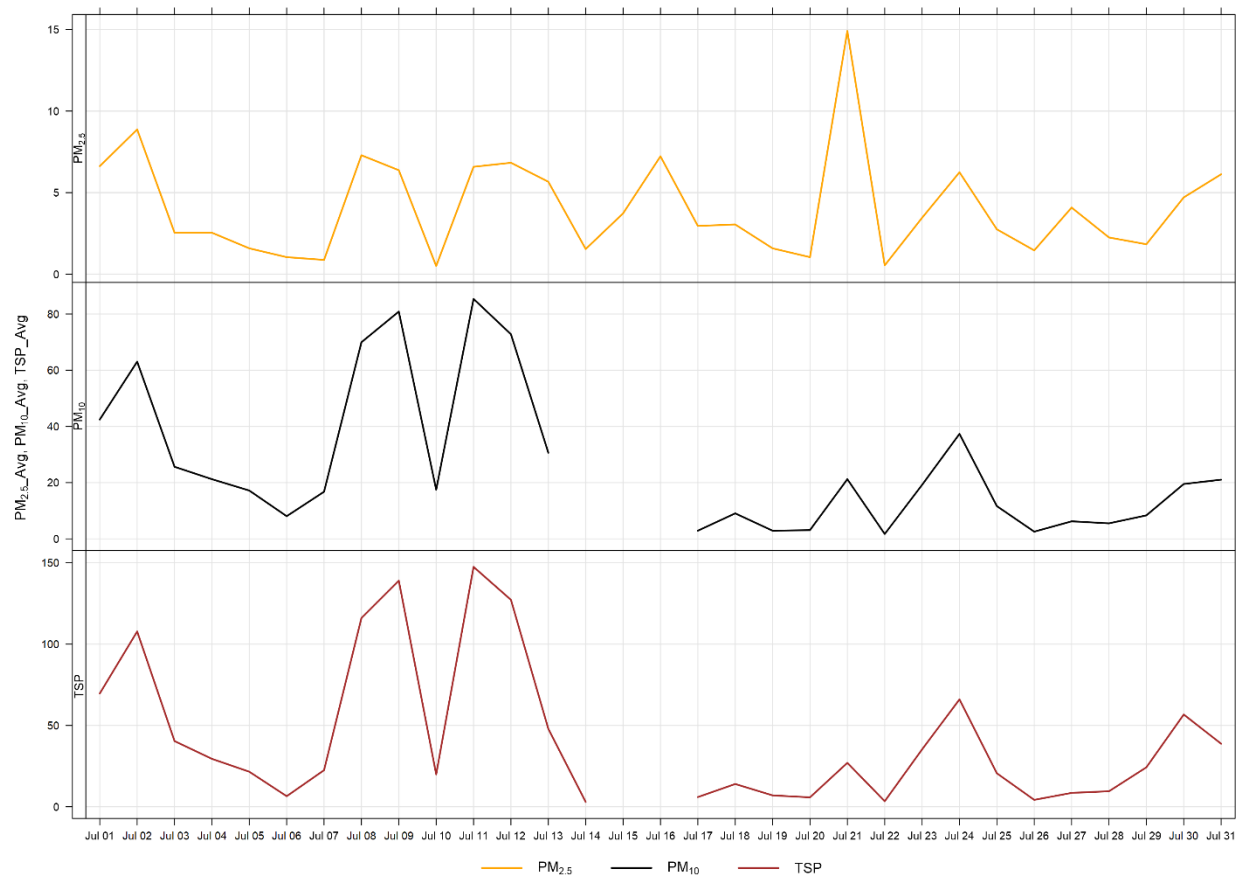


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 5 days of TSP exceedance in July. The wind rose shows that the winds predominately came from the southwest, suggesting impacts of windblown dust from the direction of the Amrize 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 July 2025. The data shows a diurnal pattern potentially associated with Amrize 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.

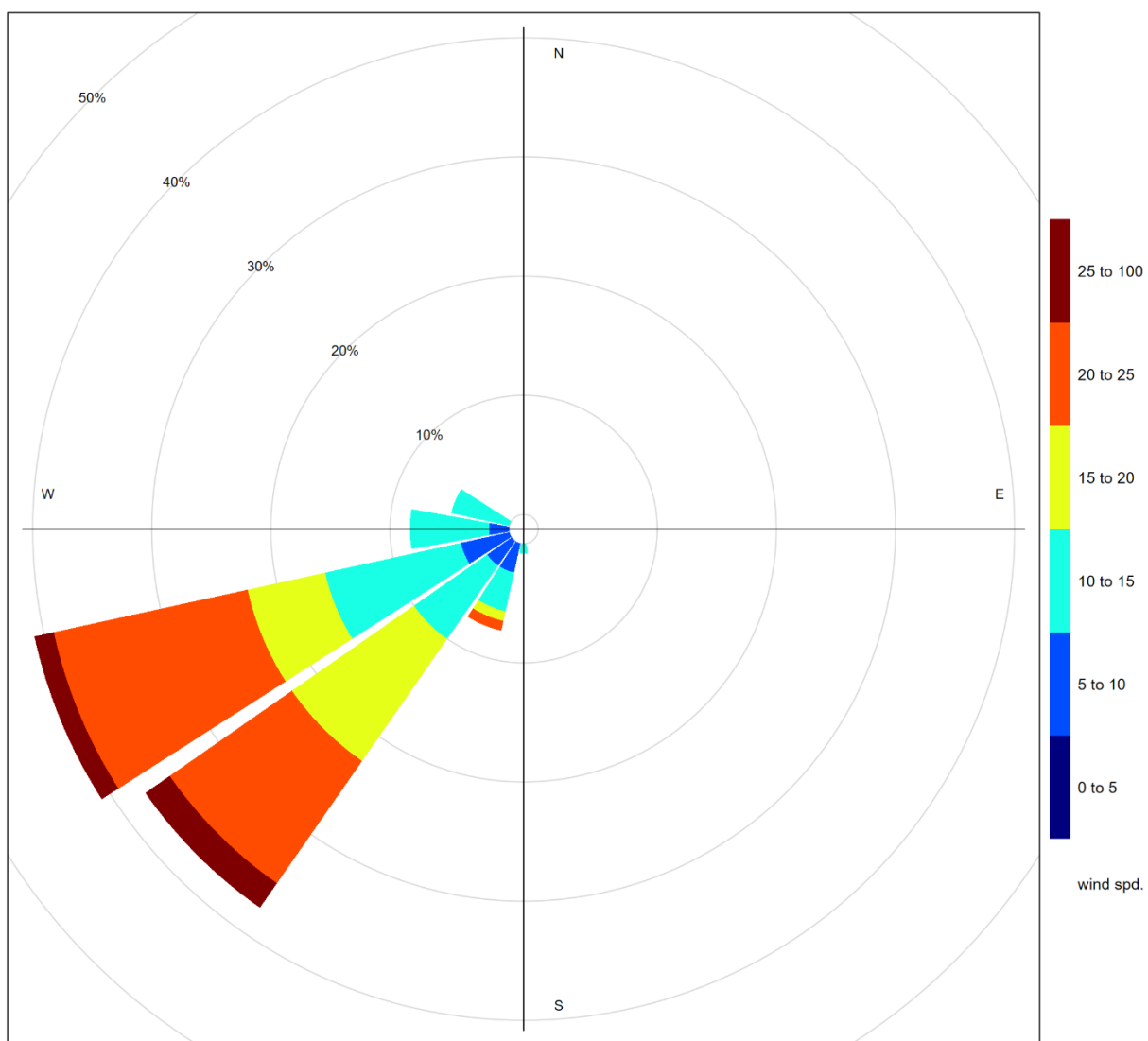


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

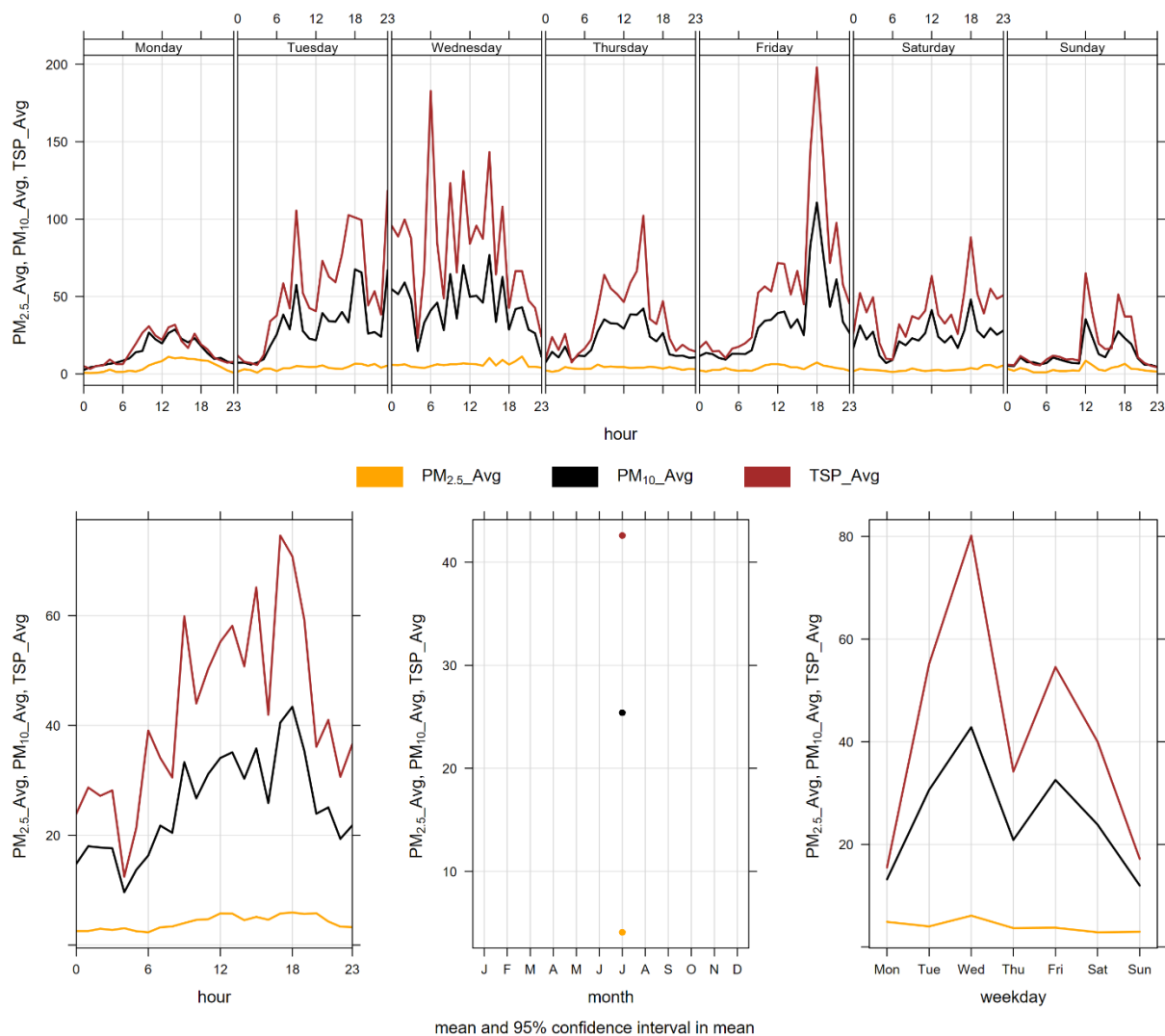


Figure 4-7 Windridge particulate matter time variation

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 July.

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 4 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 July, the Berm monitor records an average of 10 and 2 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during July occurred in 2010 where there were 22 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in July was 9 days in 2021.

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

The Berm monitor is located along a ridge at the edge of the Amrize 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: Amrize Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 5-2 Summary of July 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	0.1	3.6	35.7	11	19	20.3	252.9	10.1	21	100.0
PM ₁₀ (µg/m³)	-	-	Berm	-	-	0.1	12.2	225.1	11	19	20.3	252.9	55.8	11	100.0
TSP (µg/m³)	-	100	Berm	-	4	0.1	30.4	673.4	11	19	20.3	252.9	161.9	11	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 Amrize)
Berm						
2025-07-08	120.9	-	245.6	16.9	31.1	
2025-07-09	132.9	-	237.8	18.0	37.8	
2025-07-11	161.9	-	247.9	17.5	45.6	
2025-07-12	122.7	-	226.8	17.3	32.3	
Total # of Exceedances	4	0				
Maximum # of Exceedances (July)	22 (2010)	9 (2021)				
Average # of Exceedances (July)	10	2				
Minimum # of Exceedances (July)	3 (2013)	0 (2010, 2011, 2012, 2013, 2015, 2016, 2018, 2019, 2020, 2022)				

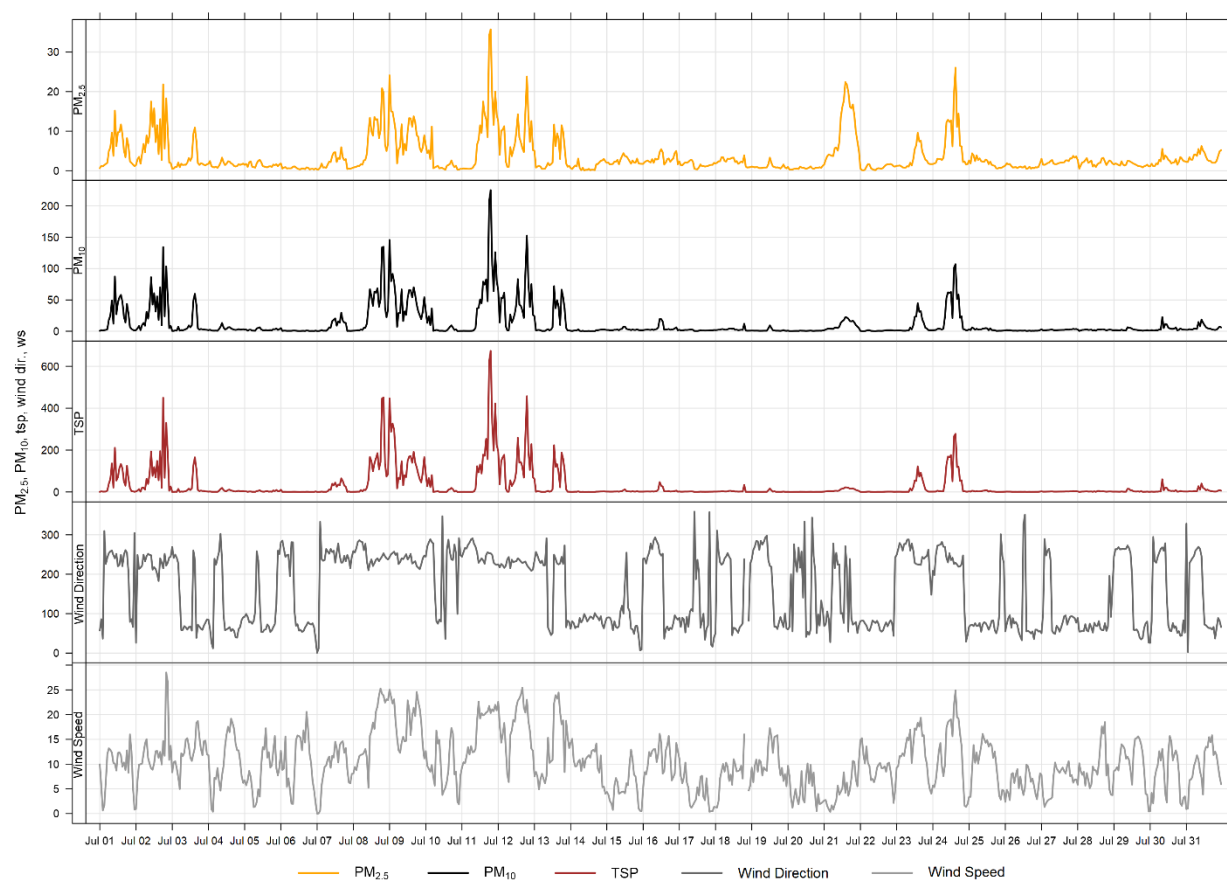


Figure 5-1 1-hour particulate matter concentrations at the Berm monitor

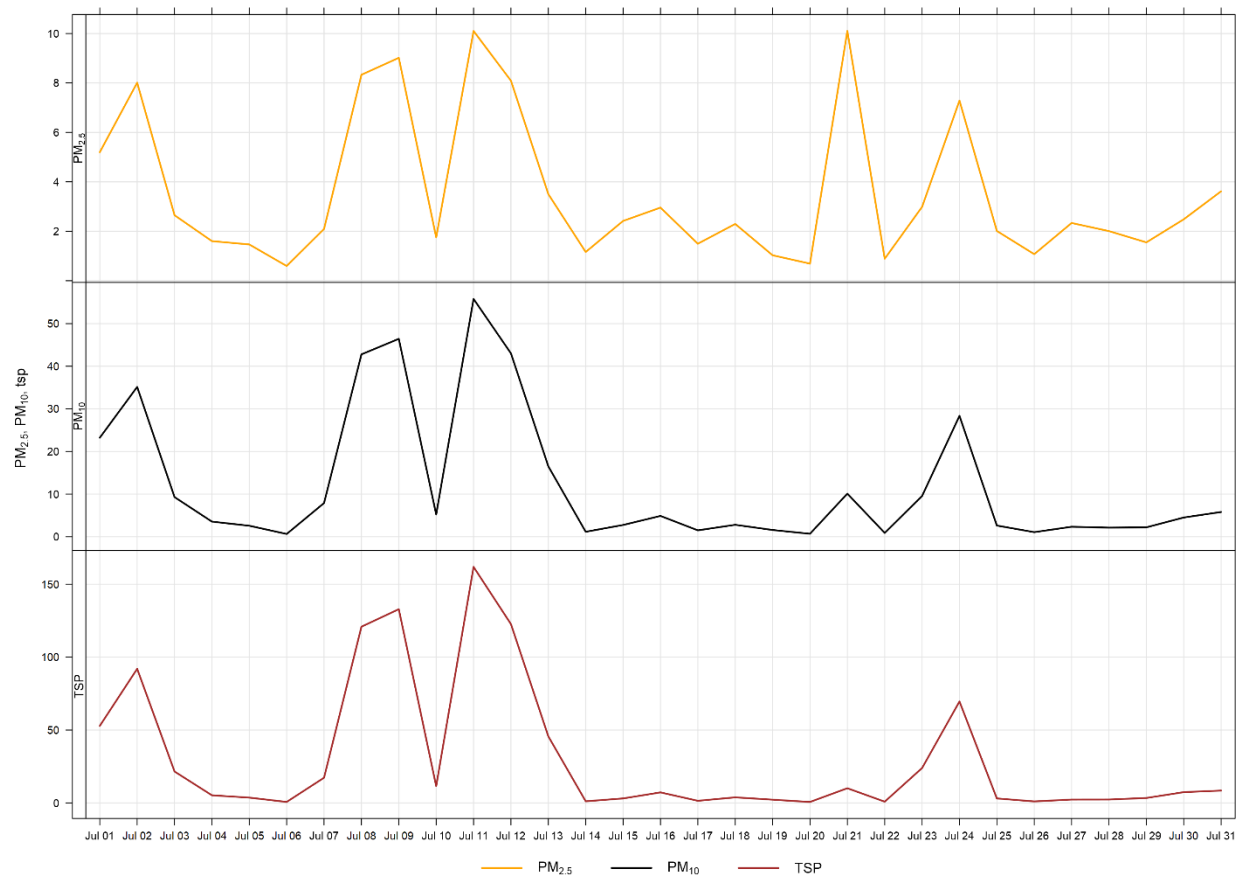


Figure 5-2 24-hour particulate matter concentrations at the Berm monitor

Figure 5-3 shows the wind rose for the 4 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 Amrize 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 Amrize operations, but also daytime emissions from other activities and sources in Exshaw.

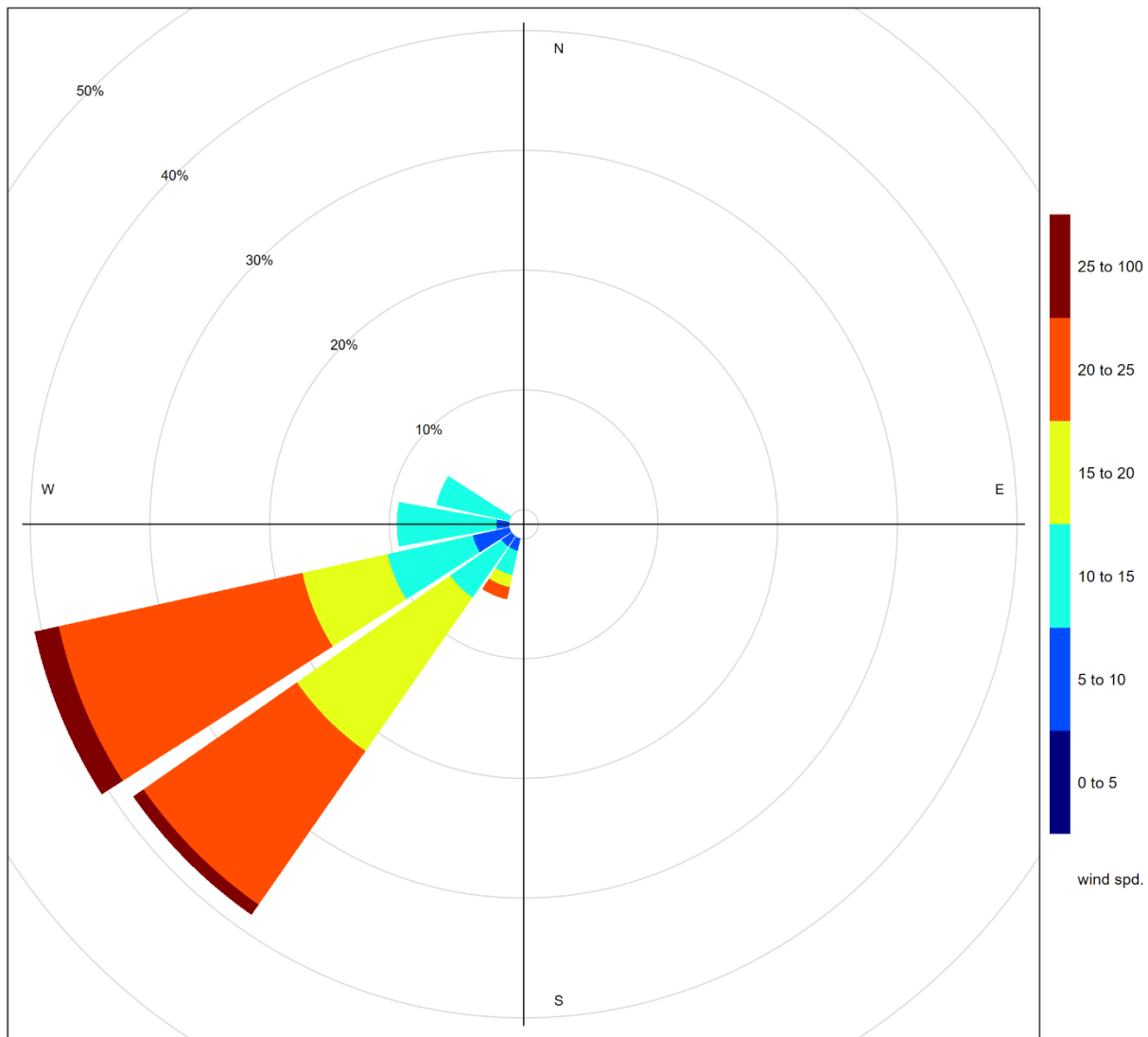


Figure 5-3 Windrose for TSP exceedance days recorded at the Berm GRIMM

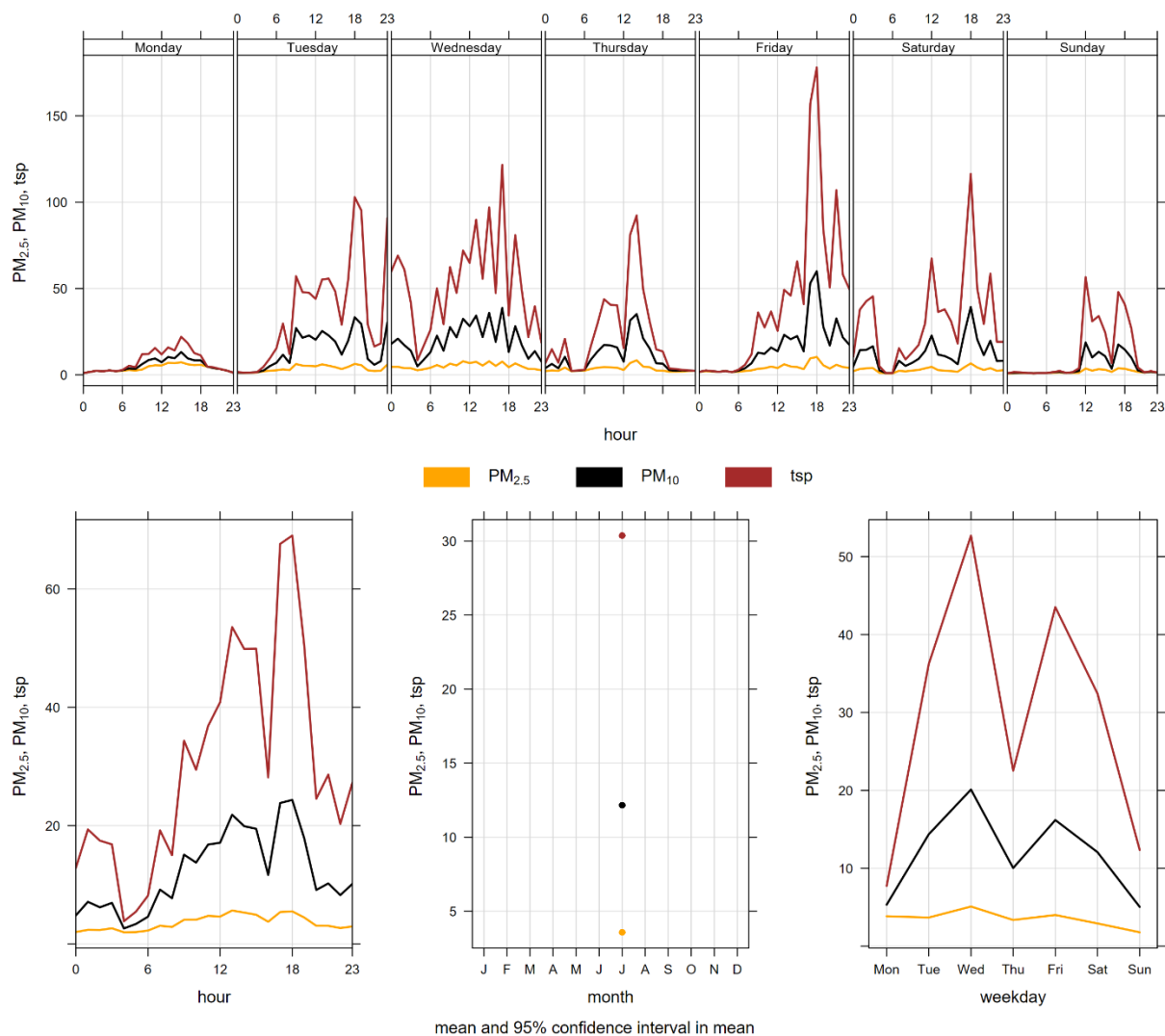


Figure 5-4 Berm monitor particulate matter time variation

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

APPENDIX

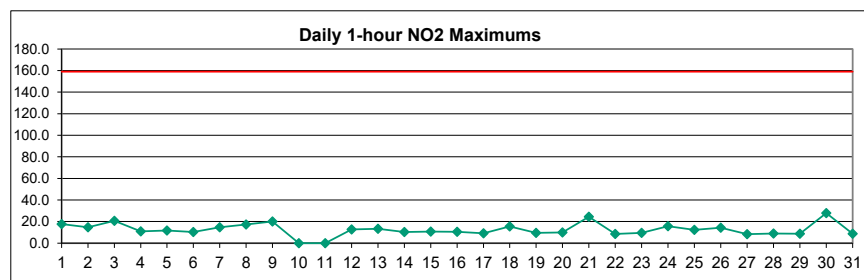
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – July 2025

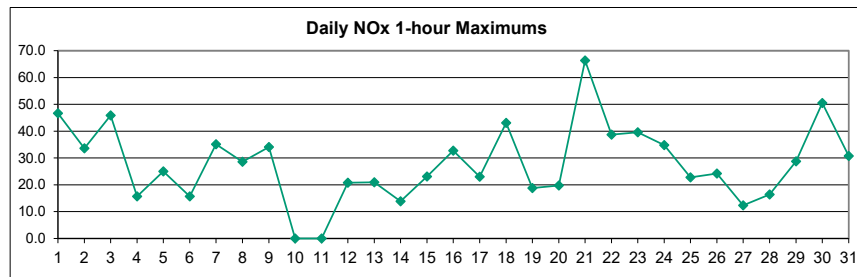
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.7	S	9.7	16.0	14.9	11.7	8.8	11.5	17.7	12.5	9.0	1.0	6.2	14.1	9.7	4.8	9.7	8.9	14.0	5.1	2.1	10.6	3.8	3.7	9.4	17.7
2	5.9	S	6.1	8.8	8.7	10.1	10.2	10.1	14.6	11.4	5.6	5.1	2.2	1.9	1.9	2.8	5.3	2.1	3.9	1.1	2.6	8.7	6.2	3.7	6.0	14.6
3	5.1	S	3.4	7.4	3.3	20.6	12.8	3.6	3.6	7.7	4.0	4.8	7.2	3.9	6.4	4.8	2.7	6.7	4.6	5.8	10.6	6.2	2.4	1.9	6.1	20.6
4	10.8	S	9.2	5.5	5.7	8.4	7.8	6.0	8.4	7.9	5.3	6.9	8.0	5.8	6.0	6.6	5.5	1.3	2.9	4.0	2.9	2.7	2.3	1.6	5.7	10.8
5	1.7	S	1.9	2.1	3.5	7.0	10.7	8.0	7.1	9.0	11.7	5.5	3.8	2.2	5.2	6.9	4.6	10.0	8.2	6.3	4.8	3.0	2.8	5.5	5.7	11.7
6	3.9	S	3.2	3.5	4.2	6.1	10.2	5.0	3.7	1.8	0.8	3.7	2.8	3.5	3.6	2.6	1.9	0.8	1.9	4.2	6.6	9.0	6.4	2.3	4.0	10.2
7	2.5	S	7.1	8.0	9.1	7.4	7.8	7.4	7.3	11.8	10.4	3.5	9.6	10.0	9.9	1.9	3.2	10.5	4.1	3.7	1.8	3.6	14.6	9.7	7.2	14.6
8	5.6	S	6.2	5.2	5.2	5.6	12.7	10.0	11.2	9.4	5.1	4.7	2.9	2.1	2.5	2.9	1.1	1.6	7.8	17.2	3.5	4.0	2.7	9.0	6.0	17.2
9	12.3	S	20.0	12.0	15.0	3.0	6.2	12.0	7.3	9.1	8.9	5.5	5.5	7.4	4.2	4.3	6.3	1.0	0.8	0.6	1.8	4.3	6.7	5.7	7.0	20.0
10	5.1	S	6.4	7.9	4.6	7.8	2.6	1.8	C	C	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	5.9	4.1	2.5	14.2	15.4	14.6	15.0	12.5	3.9	4.2	5.9	4.1
12	3.3	S	4.8	2.3	5.0	9.4	9.1	4.3	10.1	8.5	7.9	4.9	10.2	8.4	6.3	6.6	5.4	9.1	5.0	4.6	10.8	3.6	5.2	12.7	6.9	12.7
13	4.8	S	12.6	12.1	11.3	7.5	4.3	11.6	5.5	9.1	13.2	5.7	4.0	2.3	0.8	0.8	1.0	7.3	2.4	5.6	9.6	3.7	8.1	6.1	6.5	13.2
14	10.2	S	2.8	6.1	4.6	2.3	2.5	1.1	1.4	2.2	7.6	2.1	1.2	1.2	1.5	0.9	1.1	1.1	1.4	1.0	2.6	5.0	3.5	2.9	2.9	10.2
15	3.5	S	4.6	7.6	5.2	9.4	6.6	8.2	5.9	5.9	5.9	5.6	9.6	10.7	3.4	5.1	4.7	7.5	4.1	2.9	2.4	5.9	5.8	4.3	5.9	10.7
16	7.3	S	6.7	9.6	4.5	7.3	5.9	4.5	5.9	6.7	3.7	3.5	3.8	5.5	5.0	0.8	2.1	8.2	4.8	10.5	6.7	1.6	1.3	1.0	5.1	10.5
17	3.2	S	4.9	9.1	4.4	5.4	4.1	9.1	7.2	7.9	5.2	4.1	3.9	4.9	3.3	1.9	1.9	1.8	3.8	3.8	6.8	3.3	2.5	3.0	4.6	9.1
18	5.7	S	5.7	6.0	7.3	6.5	4.5	6.9	6.1	5.9	15.4	7.1	5.2	5.7	2.6	2.8	7.4	2.6	P	P	P	6.3	5.7	5.9	6.1	15.4
19	4.3	S	3.5	3.0	2.9	2.5	2.6	4.3	9.6	6.3	2.2	1.3	2.1	6.3	5.2	1.1	2.8	3.5	1.1	1.2	4.6	1.3	1.9	4.8	3.4	9.6
20	3.0	S	1.2	2.9	7.0	5.1	5.4	5.6	9.1	9.9	7.9	9.1	9.9	9.9	7.0	7.5	7.9	6.3	7.1	7.8	5.8	5.2	3.7	9.8	6.7	9.9
21	5.1	S	1.5	3.0	3.5	5.2	6.8	9.2	24.4	10.6	7.9	4.4	3.0	9.3	13.9	16.6	8.9	5.5	6.7	4.9	4.6	9.1	4.0	1.3	7.4	24.4
22	1.1	S	2.6	2.7	3.7	5.1	6.7	1.8	2.8	2.4	P	1.7	3.0	4.7	2.2	3.0	1.6	2.3	2.2	2.3	3.5	2.3	1.7	8.5	3.1	8.5
23	6.1	S	5.7	5.4	3.8	4.0	4.4	3.1	7.8	6.1	7.6	2.5	1.8	3.4	1.8	2.7	9.6	8.4	4.7	9.0	5.9	5.0	5.6	5.4	5.2	9.6
24	7.4	S	9.9	9.6	10.6	7.9	7.8	7.5	6.5	5.4	15.8	7.2	9.4	4.8	1.7	4.0	1.3	1.1	1.9	3.8	10.3	9.1	14.5	11.5	7.3	15.8
25	12.3	S	6.7	7.4	2.4	3.9	4.8	11.6	3.1	1.7	1.6	2.7	4.7	8.7	1.2	1.2	5.1	4.1	5.2	4.8	6.3	8.6	10.0	9.9	5.6	12.3
26	9.4	S	6.1	6.9	4.9	1.9	2.4	2.0	8.4	10.4	14.4	8.0	6.5	3.8	1.7	4.7	9.3	8.3	3.6	2.7	6.4	7.6	9.5	5.8	6.3	14.4
27	6.4	S	6.2	8.4	6.2	4.4	4.6	5.3	4.8	1.6	2.0	4.5	2.1	2.6	2.0	2.6	5.6	2.1	3.3	3.0	3.7	4.4	3.6	4.8	4.1	8.4
28	3.5	S	6.7	5.9	2.5	6.4	6.9	5.9	9.0	7.6	4.3	1.7	2.9	1.6	2.8	3.0	4.1	2.0	4.0	3.5	4.9	4.3	4.9	5.2	4.5	9.0
29	6.3	S	6.2	6.3	5.5	5.4	5.8	6.3	6.5	8.7	6.1	6.6	6.4	3.1	4.3	3.9	1.7	2.7	1.2	6.6	3.2	2.0	2.6	3.3	4.8	8.7
30	3.7	S	6.1	7.8	9.1	8.5	6.1	7.3	9.6	11.4	20.3	7.1	5.5	2.8	8.0	27.8	3.8	8.5	9.2	11.1	5.0	3.6	4.0	5.0	8.3	27.8
31	3.0	S	8.5	7.0	7.3	6.6	6.9	7.0	8.6	7.0	6.7	4.9	2.1	1.9	3.0	1.7	2.8	1.9	2.3	2.2	2.2	2.0	6.4	2.6	4.5	8.6
NO.	31	-	30	30	30	30	30	30	29	29	28	29	30	30	30	30	30	30	29	29	29	30	30	30	682	96.2%
MEAN	5.8	-	6.2	6.8	6.2	6.7	6.6	6.6	8.0	7.4	7.7	4.7	5.0	5.2	4.3	5.0	4.8	5.1	4.7	5.2	5.0	5.0	5.3	5.4		
MAX	12.3	-	20.0	16.0	15.0	20.6	12.8	12.0	24.4	12.5	20.3	9.1	10.2	14.1	13.9	27.8	15.4	14.6	15.0	17.2	10.8	10.6	14.6	12.7		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	682
Maximum 1-HR Average	27.8 PPB
Maximum 24-HR Average	9.4 PPB
Monthly Calibration	4
Standard Deviation	3.6
Operational Time	716 HRS
Operational Uptime	96.2 %
Monthly Average	5.8 PPB

Lagoon NOx (ppb) – July 2025

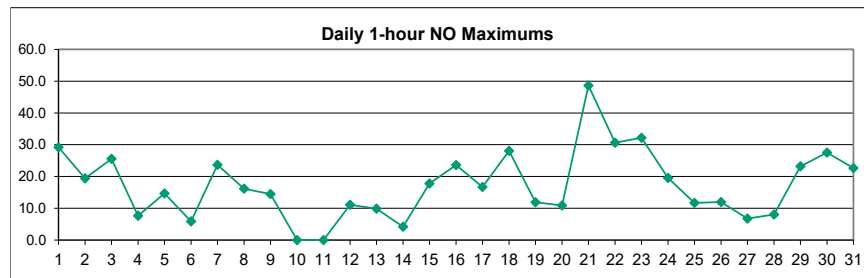
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.8	S	10.1	17.2	26.3	21.0	19.9	25.9	46.7	22.2	13.9	1.2	9.8	28.3	17.5	7.9	15.9	13.7	20.5	5.8	2.1	11.0	3.9	3.9	15.5	46.7
2	6.4	S	6.1	9.2	13.9	13.8	18.8	20.4	33.6	19.4	7.4	6.4	3.3	2.8	3.3	4.4	6.4	2.7	4.9	1.5	3.0	13.9	7.8	4.2	9.3	33.6
3	6.9	S	4.1	10.5	4.8	45.9	19.3	5.4	5.6	13.2	5.6	6.3	10.6	5.5	10.9	7.1	3.8	9.0	5.5	7.9	12.9	7.0	2.5	1.8	9.2	45.9
4	13.5	S	10.4	5.7	6.1	15.3	12.9	9.7	15.6	12.8	8.1	12.2	12.1	8.6	8.2	11.6	8.2	1.5	4.8	6.3	2.9	2.7	2.3	1.6	8.4	15.6
5	1.6	S	1.9	2.2	3.7	9.3	25.0	12.2	11.0	14.7	21.7	9.2	6.5	3.1	7.9	11.0	6.5	14.9	11.4	9.2	5.4	3.6	3.7	7.7	8.8	25.0
6	5.5	S	4.9	5.5	7.2	9.9	15.7	7.5	5.5	2.6	0.9	6.4	4.0	6.1	6.1	3.7	2.9	0.9	2.3	5.3	8.0	9.8	8.2	2.2	5.7	15.7
7	3.4	S	8.7	10.6	14.7	15.0	26.5	25.8	21.2	35.1	22.3	6.1	20.6	20.6	22.3	3.9	6.3	19.7	6.7	4.8	2.2	3.9	25.5	17.1	14.9	35.1
8	7.1	S	9.8	7.9	7.9	7.8	28.5	24.4	23.4	18.2	9.2	7.3	3.9	3.5	3.9	4.9	1.6	2.2	12.3	28.6	4.7	4.7	3.3	10.8	10.3	28.6
9	17.6	S	34.1	17.6	20.1	3.5	7.9	22.7	11.9	14.7	15.0	10.5	11.4	15.4	8.9	9.8	13.1	1.5	0.9	0.8	2.3	5.3	13.7	8.0	11.6	34.1
10	6.8	S	9.0	11.4	6.2	8.4	4.1	3.0	C	C	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	4.5	S	6.4	2.9	5.8	13.1	15.4	6.8	20.0	17.6	15.6	9.0	20.8	17.5	11.3	12.5	8.6	15.8	6.8	6.1	15.3	4.1	6.1	16.9	11.3	20.8
13	5.6	S	20.1	19.2	17.9	9.2	5.7	20.9	9.1	15.4	19.2	7.3	7.7	4.2	1.4	1.4	1.6	13.8	3.6	7.0	13.1	4.5	9.9	7.9	9.8	20.9
14	13.8	S	4.4	8.3	6.1	2.6	3.5	1.5	2.1	2.9	10.8	2.5	1.7	1.8	2.0	1.4	1.6	1.5	1.9	1.3	3.1	5.5	3.9	3.3	3.8	13.8
15	4.5	S	5.5	10.6	6.8	17.3	9.2	10.5	9.0	11.7	10.7	8.9	14.9	17.7	10.2	8.7	8.6	13.2	6.9	6.1	3.2	13.2	23.1	9.5	10.4	23.1
16	9.6	S	10.1	32.7	11.9	17.7	14.3	11.3	14.4	17.0	6.0	5.7	6.8	9.8	7.5	16.4	3.1	12.9	9.2	28.4	13.0	2.2	1.7	1.5	11.6	32.7
17	3.7	S	5.8	13.8	5.3	7.7	4.8	10.2	8.8	12.7	8.5	5.9	5.3	7.0	4.9	3.6	2.8	2.6	6.6	8.1	23.0	6.8	4.1	6.1	7.3	23.0
18	23.5	S	11.9	11.9	17.0	19.3	20.6	30.2	22.9	13.8	43.1	12.3	8.1	8.5	3.9	4.2	12.9	3.4	P	P	P	7.1	6.1	6.6	14.4	43.1
19	5.1	S	4.7	4.2	4.7	4.1	5.7	10.9	18.8	17.7	5.1	2.3	3.7	14.4	8.6	1.8	4.5	6.1	1.8	2.1	5.5	2.0	2.5	6.5	6.2	18.8
20	3.5	S	1.9	4.3	8.0	6.5	7.9	7.6	19.4	18.1	13.6	17.1	19.7	16.1	11.8	10.2	10.2	7.8	8.4	8.9	6.5	5.9	4.5	16.2	10.2	19.7
21	6.1	S	2.1	3.8	4.1	7.8	12.5	21.8	66.4	23.4	14.1	7.1	4.2	15.3	18.5	22.6	14.4	7.0	11.8	6.3	7.9	10.5	4.8	2.1	12.8	66.4
22	1.7	S	5.0	4.3	5.7	6.8	13.6	3.3	5.0	7.2	P	3.3	5.6	8.1	3.7	4.6	3.0	3.7	3.3	3.4	4.9	3.2	3.8	38.7	6.5	38.7
23	12.8	S	14.0	21.7	8.4	12.8	15.6	12.8	39.6	19.9	24.2	4.8	3.5	10.2	3.5	4.8	19.8	13.3	6.8	14.6	7.4	6.4	6.7	7.4	12.7	39.6
24	8.6	S	19.7	21.5	23.1	16.7	17.4	15.6	13.9	9.9	34.8	12.6	18.5	9.2	3.3	6.4	2.2	2.1	2.8	5.4	12.6	10.0	24.4	18.8	13.4	34.8
25	20.0	S	9.9	9.7	3.1	4.8	6.9	22.8	4.8	2.7	2.5	4.5	7.6	16.1	2.1	2.2	7.8	8.0	7.5	8.8	9.1	9.7	11.8	12.3	8.5	22.8
26	12.8	S	6.9	10.0	6.8	2.8	3.4	3.0	14.4	17.2	24.2	13.5	10.0	6.7	2.8	8.2	18.2	19.8	8.4	4.2	8.5	10.6	20.6	8.0	10.5	24.2
27	8.4	S	8.5	12.4	8.5	6.5	8.9	11.3	11.1	2.6	3.2	7.3	3.1	4.1	3.6	3.8	9.1	3.1	4.3	3.9	4.6	5.5	4.5	5.9	6.3	12.4
28	5.1	S	11.0	8.6	3.4	11.2	12.2	9.0	16.4	14.7	8.2	2.8	5.1	2.7	4.8	5.7	8.6	3.3	5.7	4.6	6.0	5.2	12.5	7.7	7.6	16.4
29	10.8	S	16.0	19.1	26.3	26.6	28.4	26.2	21.1	28.8	13.4	11.5	10.1	5.1	7.8	7.5	2.9	5.4	2.2	10.6	4.8	2.7	3.5	5.4	12.9	28.8
30	5.6	S	8.1	11.8	23.7	31.8	20.0	26.2	33.8	28.3	47.5	11.2	8.6	4.7	14.6	50.5	5.9	12.8	12.1	14.1	6.6	4.5	6.1	6.9	17.2	50.5
31	4.9	S	12.1	11.1	17.4	14.9	21.9	27.4	30.8	14.7	10.3	7.9	3.6	3.1	5.6	2.9	4.6	3.1	4.3	3.0	3.0	2.9	8.8	3.4	9.6	30.8
NO.	31	-	30	30	30	30	30	30	29	29	28	29	30	30	30	30	30	30	29	29	29	30	30	30	682	96.2%
MEAN	8.3	-	9.4	11.3	10.8	13.1	14.2	14.9	19.2	15.5	15.0	7.7	8.7	9.4	7.5	9.0	8.1	8.5	7.3	8.2	7.1	6.3	8.3	8.4		
MAX	23.5	-	34.1	32.7	26.3	45.9	28.5	30.2	66.4	35.1	47.5	17.1	20.8	28.3	22.3	50.5	27.4	30.0	27.6	28.6	23.0	13.9	25.5	38.7		



Number of Non-Zero Readings	682
Maximum 1-HR Average	66.4 PPB
Maximum 24-HR Average	17.2 PPB
Monthly Calibration	4
Standard Deviation	8.089
Operational Time	716 HRS
Operational Uptime	96.2 %
Monthly Average	10.3 PPB

Lagoon NO (ppb) – July 2025

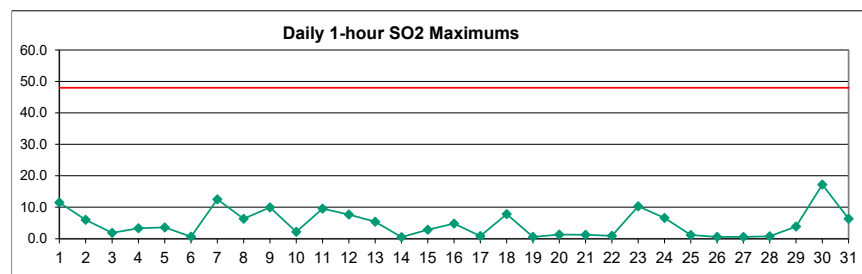
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	0.5	S	0.7	1.5	11.7	9.6	11.4	14.8	29.2	10.0	5.2	0.5	3.9	14.5	8.0	3.3	6.5	5.1	6.9	1.0	0.3	0.7	0.4	0.5	6.4	29.2
2	0.8	S	0.3	0.8	5.5	4.1	9.0	10.8	19.4	8.5	2.2	1.6	1.4	1.2	1.6	1.9	1.4	0.9	1.4	0.7	0.7	5.6	1.9	0.8	3.6	19.4
3	2.1	S	1.0	3.4	1.7	25.5	6.9	2.1	2.4	5.9	1.9	1.8	3.7	1.9	4.8	2.6	1.3	2.6	1.2	2.4	2.6	1.1	0.3	0.2	3.5	25.5
4	2.9	S	1.5	0.5	0.7	7.2	5.5	4.1	7.6	5.3	3.3	5.7	4.5	3.2	2.7	5.3	3.1	0.5	2.2	2.6	0.3	0.3	0.3	0.4	3.0	7.6
5	0.2	S	0.2	0.3	0.5	2.6	14.6	4.6	4.3	6.1	10.4	4.0	3.0	1.1	3.1	4.5	2.2	5.2	3.6	3.2	0.9	0.9	1.1	2.5	3.4	14.6
6	1.9	S	2.0	2.2	3.3	4.0	5.9	2.7	2.0	1.1	0.4	3.0	1.5	2.9	2.7	1.3	1.2	0.4	0.7	1.4	1.7	1.1	2.1	0.2	2.0	5.9
7	1.2	S	1.9	2.9	6.0	7.9	19.0	18.8	14.3	23.7	12.3	2.9	11.4	10.9	12.7	2.2	3.3	9.6	2.8	1.4	0.6	0.6	11.2	7.7	8.0	23.7
8	1.8	S	3.9	3.1	3.0	2.5	16.1	14.8	12.6	9.2	4.4	2.9	1.3	1.6	1.7	2.2	0.8	0.9	4.8	11.6	1.5	1.0	0.9	2.2	4.6	16.1
9	5.7	S	14.4	6.0	5.5	0.8	2.1	11.1	5.0	6.0	6.5	5.3	6.2	8.3	5.0	5.9	7.1	0.8	0.5	0.4	0.8	1.4	7.3	2.6	5.0	14.4
10	2.0	S	2.9	4.0	1.9	0.8	1.8	1.4	C	C	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	1.6	S	2.1	1.1	1.3	4.3	6.8	3.0	10.5	9.6	8.3	4.5	11.1	9.6	5.5	6.4	3.7	7.2	2.3	2.0	5.0	1.0	1.4	4.8	4.9	11.1
13	1.3	S	8.1	7.7	7.3	2.3	1.9	9.9	4.1	6.9	6.7	2.2	4.3	2.4	1.0	1.1	1.0	7.0	1.7	1.9	4.0	1.2	2.4	2.3	3.8	9.9
14	4.2	S	2.0	2.7	1.9	0.7	1.5	0.8	1.1	1.2	3.7	0.9	1.0	1.0	1.0	0.9	0.9	0.8	0.9	0.7	0.9	1.0	0.8	0.8	1.4	4.2
15	1.5	S	1.4	3.6	2.1	8.5	3.1	2.8	3.7	6.3	5.4	3.9	6.0	7.6	7.3	4.1	4.4	6.3	3.3	3.7	1.3	7.9	17.8	5.7	5.1	17.8
16	2.8	S	3.9	23.6	7.9	14.9	9.0	7.3	9.1	10.9	2.8	2.8	3.5	4.9	3.0	3.7	1.4	5.1	4.8	18.3	6.8	1.0	0.9	0.9	6.5	23.6
17	1.0	S	1.4	5.2	1.3	2.8	1.1	1.6	2.1	5.3	3.7	2.2	1.8	2.5	2.1	2.2	1.3	1.2	3.2	4.8	16.7	4.1	2.0	3.6	3.2	16.7
18	18.2	S	6.8	6.5	10.3	13.4	16.6	23.7	17.3	8.5	28.1	5.8	3.4	3.3	1.7	1.8	6.0	1.2	P	P	P	1.3	0.9	1.2	8.8	28.1
19	1.2	S	1.7	1.6	2.1	2.0	3.5	7.1	9.8	11.9	3.3	1.5	2.0	8.5	3.9	1.2	2.2	3.0	1.2	1.3	1.4	1.0	1.0	2.1	3.2	11.9
20	1.0	S	1.1	1.8	1.5	1.8	3.0	2.5	10.9	8.8	6.3	8.6	10.4	6.7	5.3	3.3	2.8	2.0	1.8	1.7	1.3	1.2	1.2	7.0	4.0	10.9
21	1.4	S	1.1	1.3	1.1	3.1	6.2	13.1	48.7	13.3	6.7	3.2	1.7	6.5	5.1	6.5	6.0	1.9	5.5	1.8	3.7	1.9	1.3	1.2	6.2	48.7
22	1.1	S	2.8	2.0	2.4	2.2	7.3	1.9	3.0	4.4	P	2.0	3.0	3.9	1.8	2.1	1.8	1.8	1.6	1.4	1.9	1.3	2.5	30.7	3.8	30.7
23	7.3	S	8.8	16.8	5.1	9.3	11.7	10.2	32.2	14.3	17.1	2.8	2.1	7.4	2.2	2.6	10.8	5.4	2.6	6.1	2.0	1.8	1.6	2.5	7.9	32.2
24	1.7	S	10.3	12.4	13.1	9.3	10.2	8.7	7.9	5.0	19.5	5.9	9.6	4.9	2.0	2.9	1.3	1.5	1.4	2.0	2.9	1.4	10.4	7.9	6.6	19.5
25	8.2	S	3.8	2.9	1.2	1.4	2.7	11.7	2.2	1.5	1.4	2.3	3.3	7.8	1.4	1.4	3.1	4.3	2.8	4.5	3.3	1.7	2.4	2.9	3.4	11.7
26	4.0	S	1.3	3.6	2.3	1.4	1.4	1.3	6.4	7.3	10.4	6.0	4.1	3.4	1.6	4.0	9.4	12.0	5.2	2.0	2.6	3.5	11.6	2.7	4.7	12.0
27	2.5	S	2.9	4.6	2.8	2.6	4.8	6.5	6.8	1.4	1.6	3.2	1.5	2.0	2.1	1.7	4.0	1.5	1.4	1.3	1.2	1.6	1.3	1.5	2.6	6.8
28	2.0	S	4.9	3.2	1.4	5.4	5.8	3.6	8.0	7.7	4.4	1.6	2.8	1.5	2.5	3.1	4.9	1.7	2.2	1.6	1.6	1.3	8.0	3.0	3.6	8.0
29	5.0	S	10.3	13.3	21.2	21.7	23.2	20.4	15.1	20.6	7.8	5.5	4.3	2.4	4.0	4.1	1.6	3.2	1.4	4.5	2.0	1.2	1.3	2.5	8.5	23.2
30	2.4	S	2.5	4.5	15.1	23.8	14.5	19.4	24.8	17.4	27.5	4.7	3.7	2.4	7.0	23.2	2.6	4.8	3.6	3.6	2.1	1.3	2.6	2.4	9.4	27.5
31	2.4	S	4.2	4.6	10.6	8.9	15.5	20.9	22.6	8.3	4.1	3.5	2.0	1.6	3.0	1.6	2.3	1.6	2.4	1.3	1.2	1.4	2.8	1.2	5.6	22.6
NO. MEAN MAX	31	-	30	30	30	30	30	30	29	29	28	29	30	30	30	30	30	30	29	29	29	30	30	30	682	96.2%
	3.0	-	3.7	4.9	5.1	6.8	8.1	8.7	11.8	8.5	7.7	3.5	4.1	4.6	3.6	4.0	3.7	3.8	3.0	3.4	2.5	1.7	3.4	3.5		
	18.2	-	14.4	23.6	21.2	25.5	23.2	23.7	48.7	23.7	28.1	8.6	11.4	14.5	12.7	23.2	12.5	15.9	13.1	18.3	16.7	7.9	17.8	30.7		



Number of Non-Zero Readings	682		
Maximum 1-HR Average	48.7 PPB		
Maximum 24-HR Average	9.4 PPB		
Monthly Calibration	4	Operational Time	716 HRS
Standard Deviation	5.417	Operational Uptime	96.2 %
		Monthly Average	4.9 PPB

Lagoon SO₂ (ppb) – July 2025

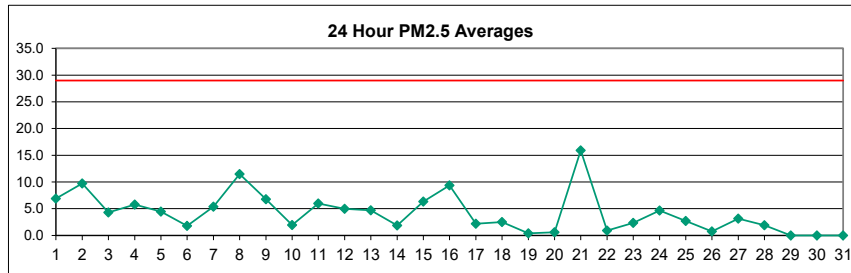
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.1	S	0.0	0.0	0.6	2.2	3.0	6.5	11.5	4.8	2.2	0.1	1.5	4.7	4.6	1.4	4.6	3.3	3.0	0.6	0.6	0.7	0.5	0.4	2.5	11.5
2	0.4	S	0.2	0.2	0.6	0.7	1.1	3.0	6.0	2.6	0.6	0.4	0.3	0.1	0.3	0.9	1.1	0.6	0.9	0.3	0.5	1.1	1.1	0.5	1.0	6.0
3	1.1	S	0.6	1.3	0.3	1.2	0.9	0.7	0.4	0.9	0.7	1.1	0.9	0.4	1.6	1.9	0.6	0.6	0.4	0.3	0.7	0.5	0.2	0.1	0.8	1.9
4	0.2	S	0.0	0.1	0.1	0.3	1.0	1.9	3.3	1.3	0.5	0.6	1.2	0.8	0.5	0.4	0.6	0.2	0.4	0.4	0.4	0.3	0.0	0.2	0.6	3.3
5	0.3	S	0.1	0.2	0.0	0.1	0.1	0.2	0.6	3.6	2.3	0.8	0.5	0.3	0.5	0.5	0.5	1.0	0.7	0.4	0.3	0.4	0.2	1.0	0.6	3.6
6	0.3	S	0.7	0.1	0.1	0.4	0.6	0.5	0.6	0.2	0.2	0.4	0.2	0.3	0.4	0.3	0.1	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.3	0.7
7	0.0	S	0.0	0.1	0.2	1.0	3.1	4.8	5.6	12.5	7.8	1.1	10.0	8.8	6.0	0.7	2.1	8.8	2.6	1.7	0.4	0.5	0.8	0.5	3.4	12.5
8	1.3	S	2.7	1.7	1.6	1.5	5.6	4.5	2.7	1.2	0.5	0.5	0.2	0.3	0.4	0.7	0.5	0.6	2.0	6.4	0.8	1.4	0.4	1.8	1.7	6.4
9	3.9	S	10.0	4.2	4.9	0.5	0.7	1.2	1.7	2.1	4.2	1.4	3.2	6.9	3.7	1.9	2.4	0.3	0.4	0.2	0.3	0.2	0.4	0.2	2.4	10.0
10	0.6	S	1.5	2.2	1.2	0.8	0.8	0.3	C	C	C	C	0.0	0.8	2.1	1.5	0.0	0.0	0.5	0.8	0.9	0.2	0.2	0.4	0.8	2.2
11	1.2	S	1.3	0.9	0.6	0.4	0.7	2.2	4.4	3.2	0.4	0.9	1.3	0.7	0.5	5.7	9.6	8.1	7.3	7.0	2.0	0.8	0.5	0.4	2.6	9.6
12	0.5	S	1.2	0.7	0.6	0.6	0.8	1.2	3.2	2.8	3.3	2.0	7.7	6.1	3.4	3.8	3.4	4.8	1.1	1.5	0.9	0.5	0.3	0.8	2.2	7.7
13	1.4	S	1.7	5.4	3.7	2.3	1.0	3.7	1.8	2.4	3.4	1.8	1.5	0.8	0.3	0.3	0.4	3.4	0.7	1.0	1.0	0.6	0.7	0.5	1.7	5.4
14	0.5	S	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.5
15	0.2	S	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.8	0.6	1.8	2.8	0.5	0.7	0.6	0.6	0.4	0.4	0.2	0.1	0.4	0.2	0.5	2.8
16	0.3	S	0.5	4.8	1.8	3.6	1.5	1.2	2.2	3.8	0.8	0.7	1.3	1.4	1.2	0.0	4.5	0.3	0.4	0.8	0.7	0.6	0.4	0.3	1.4	4.8
17	0.5	S	0.4	0.9	0.6	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.4	0.4	0.4	0.5	0.2	0.3	0.4	0.4	0.9
18	0.5	S	0.2	0.2	0.4	0.7	1.2	2.8	2.4	1.5	7.8	2.0	1.2	1.0	0.7	0.9	1.0	0.5	P	P	P	1.8	0.0	0.0	1.3	7.8
19	0.1	S	0.2	0.2	0.5	0.2	0.3	0.5	0.6	0.6	0.4	0.3	0.1	0.4	0.6	0.3	0.6	0.6	0.5	0.3	0.6	0.4	0.4	0.4	0.4	0.6
20	0.3	S	0.1	0.3	0.3	0.3	0.4	0.4	0.7	1.1	0.9	1.0	1.3	1.3	1.1	0.7	0.5	0.3	0.3	0.4	0.4	0.3	0.2	0.4	0.6	1.3
21	0.3	S	0.2	0.2	0.2	0.4	0.3	0.5	1.2	0.9	0.9	0.5	0.4	0.5	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.2	0.3	0.3	0.5	1.2
22	0.2	S	0.3	0.4	0.4	0.3	0.5	0.3	0.4	0.7	P	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.9	0.4	0.9
23	0.6	S	1.0	2.3	0.7	1.0	1.3	1.4	10.3	5.3	6.3	0.8	0.6	0.5	0.3	0.3	4.1	1.3	1.4	0.7	1.1	0.7	0.5	0.3	1.9	10.3
24	0.5	S	1.9	2.9	3.3	2.4	1.8	2.3	1.1	1.0	6.6	2.5	3.1	1.2	0.5	0.5	0.4	0.4	0.6	0.8	0.7	0.7	0.7	0.6	1.6	6.6
25	0.8	S	1.1	0.8	0.6	0.5	0.3	1.2	0.7	0.5	0.5	0.6	0.7	1.2	0.5	0.5	0.7	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.6	1.2
26	0.4	S	0.2	0.3	0.3	0.3	0.1	0.2	0.5	0.4	0.5	0.6	0.6	0.6	0.4	0.5	0.4	0.6	0.5	0.4	0.3	0.5	0.6	0.4	0.4	0.6
27	0.5	S	0.5	0.5	0.5	0.4	0.4	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.4	0.6
28	0.2	S	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.8	0.4	0.5	0.1	0.3	0.4	0.5	0.4	0.7	0.5	0.2	0.2	0.3	0.1	0.3	0.8
29	0.4	S	0.5	0.7	2.0	2.3	3.3	3.2	3.2	3.9	1.8	2.8	1.4	0.6	0.6	0.5	0.5	0.6	0.4	0.5	0.3	0.4	0.2	0.2	1.3	3.9
30	0.2	S	0.1	0.2	1.1	2.8	3.2	4.6	6.1	5.6	17.2	3.2	1.8	0.9	0.9	1.0	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.3	2.3	17.2
31	0.3	S	0.2	0.3	1.0	1.0	1.9	2.8	6.3	2.7	1.8	1.1	0.8	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	1.1	6.3
NO.	31	-	31	31	31	31	31	31	30	30	29	30	31	31	31	31	31	31	30	30	30	31	31	31	705	99.5%
MEAN	0.6	-	0.9	1.1	0.9	1.0	1.2	1.7	2.7	2.3	2.6	1.0	1.5	1.5	1.1	0.9	1.4	1.3	1.0	1.0	0.5	0.5	0.4	0.4		
MAX	3.9	-	10.0	5.4	4.9	3.6	5.6	6.5	11.5	12.5	17.2	3.2	10.0	8.8	6.0	5.7	9.6	8.8	7.3	7.0	2.0	1.8	1.1	1.8		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	693
Maximum 1-HR Average	17.2 PPB
Maximum 24-HR Average	3.4 PPB
Monthly Calibration	4
Standard Deviation	1.783
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	1.2 PPB

Lagoon PM_{2.5} (µg/m³) – July 2025

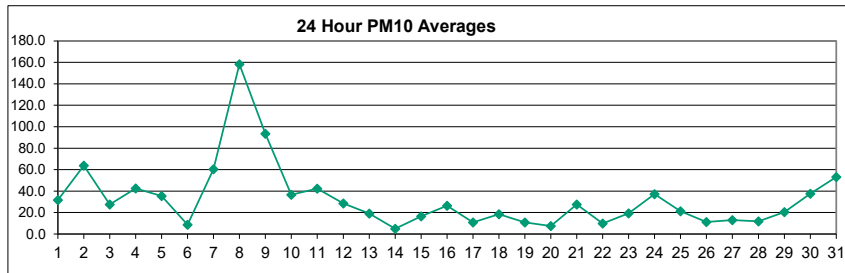
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7.5	5.5	5.9	9.7	8.4	5.8	4.9	10.2	12.0	10.2	11.0	7.6	2.3	4.8	6.9	4.6	4.1	4.5	4.9	8.0	7.5	4.8	8.0	6.5	6.9	12.0
2	6.8	8.8	11.3	8.2	6.8	10.8	12.8	11.1	13.8	14.2	15.0	12.7	25.5	3.1	4.1	13.5	14.8	9.2	4.0	3.2	7.7	7.7	5.5	2.2	9.7	25.5
3	1.0	1.9	1.7	1.4	0.5	2.1	7.7	6.2	2.7	2.2	3.4	3.5	3.6	3.7	6.3	13.9	9.8	8.9	7.0	5.0	2.3	2.5	3.3	2.7	4.3	13.9
4	4.9	6.2	4.5	3.5	10.9	8.4	6.1	3.4	1.7	11.3	8.7	7.6	12.6	9.8	9.2	6.7	3.9	1.6	3.1	4.9	1.7	0.3	3.9	3.1	5.8	12.6
5	2.7	3.1	3.7	3.5	4.4	1.6	5.4	8.3	14.1	16.0	8.5	5.7	4.7	2.2	2.2	3.2	2.7	2.4	2.5	1.6	0.5	1.8	3.9	2.2	4.5	16.0
6	2.0	1.6	1.0	2.3	1.7	2.9	2.3	2.8	4.5	3.5	1.8	1.4	0.5	0.0	0.0	0.0	2.5	0.8	0.6	3.4	1.7	1.5	1.3	2.6	1.8	4.5
7	0.5	1.1	4.8	7.0	6.5	8.0	6.8	5.8	6.0	7.0	8.4	8.4	6.0	19.1	10.8	5.7	3.6	3.3	1.9	0.0	0.0	2.3	3.5	2.4	5.4	19.1
8	1.1	0.0	2.0	4.0	3.9	8.3	7.2	8.4	6.0	14.2	14.6	17.4	9.7	15.1	16.6	39.7	20.5	13.7	9.9	9.0	18.2	19.5	10.4	6.1	11.5	39.7
9	12.8	22.8	16.2	21.0	5.9	6.6	2.5	0.0	5.8	4.4	3.9	5.5	19.3	7.9	6.0	4.7	5.4	3.6	1.9	0.3	0.0	0.3	3.2	2.4	6.8	22.8
10	0.0	0.6	3.5	3.5	3.2	2.4	3.1	3.1	1.5	0.6	0.3	0.3	0.0	2.4	3.7	3.4	2.5	0.0	0.0	2.2	2.9	3.8	3.6	0.0	1.9	3.8
11	0.0	4.5	4.5	3.8	3.4	3.4	5.7	3.1	1.0	4.2	5.6	5.3	5.2	7.8	7.5	4.4	6.0	9.3	11.1	12.4	17.8	6.2	6.1	4.7	6.0	17.8
12	2.7	5.2	4.0	1.9	0.8	0.4	4.6	8.9	4.3	7.9	4.5	1.5	0.6	6.7	9.8	6.4	5.7	2.2	6.0	7.6	4.9	4.2	3.7	14.6	5.0	14.6
13	9.2	5.7	7.1	5.2	5.7	4.6	4.0	4.9	5.7	6.6	5.3	2.9	3.7	6.3	17.3	0.0	0.0	0.3	0.5	1.9	4.7	5.4	3.2	2.4	4.7	17.3
14	4.5	3.2	1.1	1.3	0.4	0.0	1.3	1.6	0.0	0.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.6	2.3	1.8	5.6	7.8	7.2	1.8	7.8
15	8.1	6.7	4.6	3.2	3.8	2.9	3.9	5.3	4.2	6.1	7.2	7.5	7.7	9.7	8.3	6.7	5.3	7.0	8.2	5.7	6.7	7.7	6.7	8.9	6.3	9.7
16	7.7	7.3	14.1	9.3	9.1	8.1	7.1	5.2	3.7	4.7	4.8	5.2	6.5	4.2	C	C	C	19.6	28.1	11.7	20.9	10.0	5.7	3.3	9.4	28.1
17	5.5	4.3	4.5	4.1	5.3	4.6	1.6	0.9	1.0	0.3	0.2	0.0	0.0	0.0	4.1	1.8	0.0	0.5	2.0	2.1	3.0	3.5	1.4	1.4	2.2	5.5
18	0.8	2.7	5.9	3.7	2.2	2.5	4.0	6.6	7.3	4.1	1.9	3.4	3.0	0.1	0.9	1.7	0.0	0.0	1.5	P	P	P	0.0	0.0	2.5	7.3
19	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.7	1.7	1.1	0.0	0.0	0.0	1.7	1.9	0.0	0.4	1.9
20	0.4	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	2.5	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.8
21	0.9	0.5	1.1	2.7	2.8	4.4	4.7	3.1	4.2	4.4	8.7	21.5	26.8	31.8	43.7	42.3	39.2	29.6	27.2	30.9	23.9	12.1	10.3	5.4	15.9	43.7
22	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	P	1.1	1.1	2.3	1.1	0.0	0.0	0.0	2.8	4.9	3.5	1.2	0.2	1.3	0.9	4.9
23	3.1	3.1	3.4	2.1	0.7	0.0	0.2	0.4	0.4	3.2	2.1	2.7	2.7	1.9	6.2	4.3	0.8	1.6	3.9	2.9	2.2	2.7	3.2	2.4	2.3	6.2
24	1.2	2.7	3.4	6.6	2.3	2.7	5.0	4.4	5.9	5.9	8.9	10.1	9.8	5.7	4.7	3.9	3.0	2.6	2.0	2.9	4.5	5.4	3.5	4.6	4.7	10.1
25	5.4	5.4	5.6	4.6	4.1	3.3	1.4	0.8	6.2	3.3	1.2	1.3	1.9	2.6	2.7	2.6	0.0	0.0	2.0	2.5	2.5	2.7	2.1	0.7	2.7	6.2
26	0.2	3.1	3.3	2.6	0.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.8	2.2	2.4	0.7	3.3
27	3.8	3.7	2.9	2.9	4.3	5.0	3.2	0.0	0.0	4.0	0.8	0.0	1.0	2.1	1.8	4.3	5.5	3.6	1.3	4.7	4.0	3.5	4.8	7.7	3.1	7.7
28	6.0	1.0	0.0	1.9	2.4	4.0	4.7	7.0	4.7	0.9	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X	1.9	7.0
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
31	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	NRM	NRM	5.4	5.6	3.8	3.7	4.0	1.9	2.3	4.1	3.2	6.4	-	-
NO.	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	29	29	28	27	27	28	28	671	90.6%
MEAN	3.6	3.9	4.3	4.3	3.6	3.7	4.1	4.0	4.2	5.1	4.9	4.9	5.5	5.4	6.4	6.5	5.1	4.5	4.8	4.7	5.4	4.5	4.0	3.7		
MAX	12.8	22.8	16.2	21.0	10.9	10.8	12.8	11.1	14.1	16.0	15.0	21.5	26.8	31.8	43.7	42.3	39.2	29.6	28.1	30.9	23.9	19.5	10.4	14.6		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	570
Maximum 1-HR Average	43.7 UG/M3
Maximum 24-HR Average	15.9 UG/M3
Monthly Calibration	3
Standard Deviation	5.56
Operational Time	674 HRS
Operational Uptime	90.6 %
Monthly Average	4.6 UG/M3

Lagoon PM₁₀ (µg/m³) – July 2025

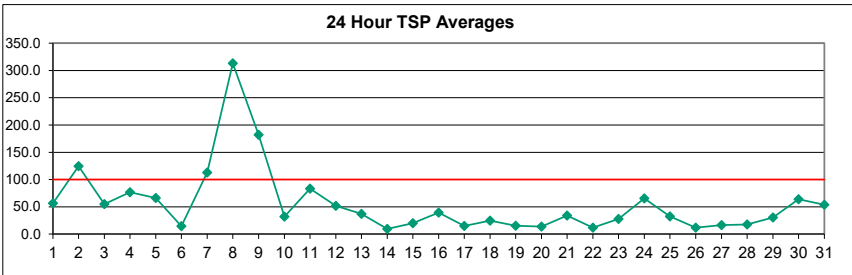
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	27.1	24.3	39.0	29.0	25.5	37.1	42.0	47.1	70.8	53.5	54.0	41.7	4.1	18.4	42.5	23.5	20.0	11.7	33.2	25.9	32.4	15.8	20.6	20.1	31.6	70.8
2	16.7	21.7	25.9	14.5	25.0	35.1	82.5	72.8	61.7	45.5	111.2	51.3	74.6	59.3	73.0	104.5	166.5	22.4	41.2	29.5	201.7	158.0	19.9	15.2	63.7	201.7
3	5.5	5.2	19.6	8.3	24.1	7.7	13.7	17.4	2.1	12.4	61.5	20.0	27.3	20.1	59.0	130.2	76.1	41.7	15.4	29.4	21.0	21.1	9.8	15.3	27.7	130.2
4	10.9	16.1	16.5	12.9	29.7	14.0	34.1	55.2	24.5	225.7	28.8	24.7	81.6	97.2	81.3	74.3	52.1	26.1	18.8	14.6	20.3	25.1	17.0	19.0	42.5	225.7
5	14.2	13.1	8.0	13.7	9.8	8.9	12.7	103.5	260.5	76.8	30.0	30.5	9.3	38.0	62.3	49.0	10.5	9.7	26.4	7.9	12.7	10.6	16.5	15.1	35.4	260.5
6	14.1	11.0	12.5	8.3	4.0	6.4	13.3	12.3	9.5	16.6	9.3	6.4	11.1	8.8	6.4	6.0	6.6	8.2	4.3	0.7	3.8	9.8	7.6	13.6	8.8	16.6
7	12.8	8.5	7.9	15.6	17.9	26.9	12.2	23.8	41.5	30.8	89.0	63.0	104.7	370.7	197.0	61.0	117.1	152.4	25.4	12.5	18.8	13.2	15.0	14.5	60.5	370.7
8	6.9	9.3	15.6	36.3	66.4	38.8	27.9	148.7	99.0	159.1	85.0	410.3	203.2	262.7	179.4	480.9	275.9	199.3	153.6	151.2	430.1	241.6	78.4	37.4	158.2	480.9
9	142.0	200.1	100.9	237.5	56.1	32.6	8.3	30.2	86.8	45.2	231.1	88.4	431.0	127.4	76.2	98.1	73.5	81.6	27.6	10.7	7.2	7.1	19.6	25.1	93.5	431.0
10	16.9	20.7	31.6	13.2	43.3	6.9	16.7	92.9	15.2	2.7	18.3	476.5	12.7	10.3	14.9	18.6	26.7	0.0	0.0	6.5	5.6	9.5	11.0	10.6	36.7	476.5
11	13.6	13.6	12.2	12.8	9.3	8.1	7.3	7.5	19.4	24.8	52.9	13.2	43.6	33.1	23.2	15.0	137.4	115.4	177.2	129.4	101.5	26.7	10.7	7.4	42.3	177.2
12	9.9	7.0	20.3	17.2	11.1	15.8	20.7	39.3	9.2	27.4	26.1	34.2	36.9	100.7	73.1	48.0	47.3	33.3	30.7	16.1	17.1	19.0	9.6	13.9	28.5	100.7
13	46.0	19.3	17.7	21.4	24.7	16.9	19.1	9.5	27.3	11.5	18.4	14.5	28.5	46.2	23.2	7.2	5.5	5.4	29.0	1.4	21.8	17.2	12.0	14.5	19.1	46.2
14	6.4	4.2	6.4	5.0	2.0	0.0	0.7	3.8	2.5	0.0	0.1	6.0	5.1	5.9	5.3	5.2	6.5	5.0	5.2	4.9	10.6	7.5	14.3	7.9	5.0	14.3
15	15.4	16.8	16.6	15.1	13.1	18.0	21.5	16.2	14.1	11.1	12.1	16.5	9.7	22.5	24.5	17.4	17.5	18.3	16.3	12.7	17.0	25.3	14.0	14.1	16.5	25.3
16	11.6	19.9	22.0	23.0	26.6	9.8	12.9	18.9	14.8	28.6	35.6	45.5	26.8	18.8	C	C	C	46.0	40.5	57.8	44.2	31.3	16.4	5.0	26.5	57.8
17	5.5	7.9	16.7	12.3	12.3	16.0	7.5	7.9	15.2	12.7	7.6	12.1	7.6	7.1	7.8	8.4	11.6	8.9	5.9	7.4	14.1	19.8	15.1	11.6	10.8	19.8
18	12.9	11.4	19.4	18.3	16.7	21.5	25.9	31.4	21.3	26.3	24.9	25.1	14.2	17.2	15.8	14.1	16.2	23.2	7.2	P	P	P	8.3	16.4	18.5	31.4
19	19.9	14.1	12.4	12.7	8.6	9.4	8.3	13.6	9.0	11.1	7.9	7.8	4.3	9.9	9.7	25.7	3.7	12.0	8.9	8.5	13.9	12.3	9.8	7.2	10.9	25.7
20	4.0	3.6	3.8	11.8	9.0	9.1	5.9	6.0	11.2	10.8	17.4	6.3	4.4	3.8	3.4	3.9	2.6	9.2	8.3	8.1	10.8	7.2	8.8	9.5	7.5	17.4
21	6.0	13.6	9.5	8.5	7.0	15.9	15.3	17.4	26.3	26.5	25.5	44.2	42.6	44.0	49.2	55.1	62.4	45.8	36.5	33.3	27.3	20.8	16.0	11.5	27.5	62.4
22	7.0	6.8	5.1	3.9	4.8	13.5	11.8	9.3	6.8	19.6	P	5.7	6.2	5.9	8.4	12.2	13.0	14.0	12.0	8.5	9.5	16.8	15.1	11.1	9.9	19.6
23	21.0	13.2	11.9	15.7	20.1	16.6	14.4	13.9	16.1	33.9	19.2	33.8	9.3	12.0	23.2	12.7	21.1	42.5	31.7	13.0	24.4	14.9	14.9	12.7	19.2	42.5
24	11.9	14.2	16.5	15.7	19.1	18.7	7.2	20.0	31.3	45.1	68.8	98.8	84.6	62.3	111.7	79.5	37.8	17.0	10.7	12.9	28.1	28.5	25.2	28.9	37.3	111.7
25	24.3	30.0	37.5	20.1	16.8	12.1	23.9	15.7	53.1	11.7	14.8	14.0	21.1	55.6	45.3	11.1	18.1	26.3	10.9	10.1	12.4	7.3	7.2	13.2	21.4	55.6
26	19.5	10.4	11.8	10.1	11.9	14.2	9.4	7.7	17.8	9.5	9.2	7.0	11.4	23.8	10.9	8.6	8.2	9.5	11.0	6.1	7.2	13.2	10.5	10.8	11.2	23.8
27	10.4	12.2	13.4	12.8	19.3	13.1	19.0	9.6	15.0	14.6	12.4	14.9	15.9	15.5	9.2	16.3	14.1	9.0	9.8	13.9	6.2	11.5	12.8	12.0	13.0	19.3
28	16.0	5.2	11.4	7.3	7.9	10.2	7.7	11.7	11.1	9.1	10.3	9.6	9.8	7.5	8.4	15.7	19.9	19.6	10.5	21.7	15.2	12.5	13.2	12.7	11.8	21.7
29	19.6	20.6	18.4	13.3	21.3	16.6	13.5	30.6	22.6	25.9	28.0	22.6	10.0	27.1	31.4	20.9	30.9	16.8	15.8	11.6	14.6	28.6	14.1	16.0	20.4	31.4
30	17.2	22.3	14.9	21.0	28.0	32.3	24.1	26.2	39.1	42.3	47.0	83.7	31.3	55.5	44.7	63.5	107.9	29.5	20.9	14.8	24.4	54.8	32.9	25.1	37.6	107.9
31	18.7	18.6	26.7	23.9	28.1	23.3	41.3	31.4	35.3	44.3	53.9	477.9	96.3	54.2	42.2	43.4	39.6	37.8	26.6	18.1	17.7	22.9	22.1	30.8	53.1	477.9
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	30	30	30	31	31	30	30	30	31	31	737	99.5%
MEAN	18.8	19.8	19.4	22.3	20.0	17.0	18.7	30.7	35.2	36.0	40.3	71.2	47.7	53.0	45.4	51.0	48.2	35.4	28.1	23.3	39.7	30.3	16.7	15.4		
MAX	142.0	200.1	100.9	237.5	66.4	38.8	82.5	148.7	260.5	225.7	231.1	477.9	431.0	370.7	197.0	480.9	275.9	199.3	177.2	151.2	430.1	241.6	78.4	37.4		



Number of Non-Zero Readings	733		
Maximum 1-HR Average	480.9 UG/M3		
Maximum 24-HR Average	158.2 UG/M3		
Monthly Calibration	3	Operational Time	740 HRS
Standard Deviation	54.79	Operational Uptime	99.5 %
		Monthly Average	32.6 UG/M3

Lagoon TSP (µg/m³) – July 2025

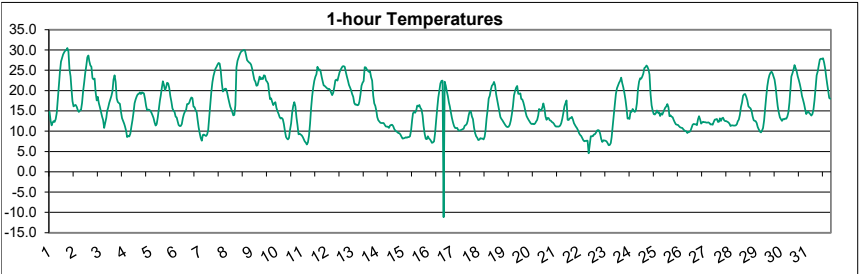
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	45.4	49.9	88.7	39.9	44.8	42.0	68.7	82.6	119.3	80.8	96.3	85.2	10.9	35.3	76.6	55.4	38.7	30.6	68.6	61.0	31.2	37.8	31.9	31.5	56.4	119.3
2	29.4	43.4	46.8	32.9	49.8	41.5	123.7	120.1	102.0	86.6	224.0	99.4	119.8	143.1	199.0	247.7	348.8	58.1	96.0	69.1	405.8	238.0	33.2	28.7	124.5	405.8
3	18.4	22.3	24.8	16.5	36.2	13.3	26.6	35.8	21.7	31.7	93.4	41.8	45.5	40.3	113.8	251.2	141.1	132.4	36.4	53.5	44.3	41.7	18.4	21.8	55.1	251.2
4	20.5	27.3	17.3	27.8	34.8	23.9	51.3	103.8	52.8	471.6	71.6	51.1	150.5	164.6	115.7	127.6	91.3	46.1	32.8	33.8	34.6	38.4	28.2	27.0	76.8	471.6
5	31.6	28.7	19.1	17.7	18.6	17.9	23.2	243.4	431.4	105.1	49.1	59.9	24.9	81.5	122.2	96.6	24.9	19.9	53.4	26.7	30.9	20.1	24.1	17.0	66.2	431.4
6	27.9	10.5	10.4	21.6	12.6	18.8	13.2	13.1	16.8	15.2	12.7	8.3	11.7	12.5	8.0	10.8	12.8	18.3	13.0	10.2	7.2	13.3	17.1	30.3	14.4	30.3
7	13.0	9.6	13.9	23.5	23.9	32.3	15.4	24.8	75.4	56.4	148.1	92.4	124.6	810.9	386.3	121.5	239.3	319.9	45.6	18.6	33.4	25.2	27.0	30.5	113.0	810.9
8	24.6	30.6	33.6	82.1	160.3	92.6	61.4	265.5	197.6	215.1	162.8	867.2	408.5	544.3	317.6	999.2	595.6	347.1	271.2	286.3	873.5	484.7	132.0	61.4	313.1	999.2
9	258.0	405.2	192.5	444.5	125.1	60.1	10.8	59.8	167.7	76.1	480.1	196.3	993.0	222.9	151.3	139.8	102.2	109.3	41.8	23.5	10.9	19.0	38.7	45.1	182.2	993.0
10	21.3	36.9	67.9	34.7	68.5	12.4	35.9	228.9	35.7	12.3	12.5	7.4	12.2	8.8	15.8	25.9	37.4	9.3	10.0	19.0	15.5	12.1	14.3	14.0	32.0	228.9
11	30.6	31.9	18.8	17.7	11.7	8.5	10.4	20.1	23.6	30.8	98.0	21.7	62.8	58.5	41.1	34.7	288.0	228.0	379.6	263.7	212.1	55.9	29.3	22.8	83.3	379.6
12	27.4	21.7	45.8	27.5	27.6	31.6	45.8	71.6	20.5	48.1	48.2	57.5	52.6	183.6	121.9	84.9	78.2	44.6	58.2	46.3	32.6	33.8	19.0	15.4	51.8	183.6
13	91.5	32.3	41.3	42.7	46.7	27.3	32.1	21.7	42.4	29.6	22.2	31.2	52.1	97.0	47.6	20.4	22.4	20.5	57.2	17.6	33.2	29.0	15.1	17.5	37.1	97.0
14	12.4	18.9	7.2	5.3	4.5	7.8	7.0	5.3	7.9	10.6	3.5	9.0	6.6	10.7	6.8	9.5	5.8	9.0	9.8	8.8	9.6	15.3	17.6	18.3	9.5	18.9
15	17.2	23.0	23.5	7.6	13.6	12.3	18.0	11.1	13.2	9.6	12.9	23.1	25.8	32.3	27.9	13.5	29.7	28.6	24.1	27.1	21.0	31.3	15.4	19.3	20.0	32.3
16	15.1	32.5	27.5	26.2	24.5	8.0	21.7	28.5	19.0	31.6	59.0	71.2	40.3	24.4	NRM	NRM	NRM	75.2	64.8	89.5	59.8	61.8	37.1	8.7	39.4	89.5
17	21.4	0.0	20.2	11.2	20.5	13.6	13.9	20.3	15.3	14.1	14.1	16.2	8.8	14.1	16.3	8.8	11.6	12.5	10.8	14.7	21.8	22.5	17.9	18.1	14.9	22.5
18	17.6	16.8	28.5	19.1	21.7	29.6	25.2	28.9	30.6	32.1	C	C	26.6	33.3	32.9	25.7	28.2	26.8	17.9	P	P	P	9.3	15.4	24.5	33.3
19	21.6	22.2	1.4	19.7	8.0	7.0	7.0	6.2	14.1	18.0	10.0	9.1	4.6	6.5	22.8	39.7	14.3	27.3	13.3	17.7	22.4	29.4	11.5	9.1	15.1	39.7
20	16.2	20.3	0.5	9.0	6.9	15.1	16.7	19.3	16.6	10.5	24.7	9.9	16.3	11.7	10.6	11.6	17.1	16.1	1.6	25.3	15.8	11.6	16.5	9.4	13.7	25.3
21	19.5	24.7	6.4	12.2	20.3	17.4	19.9	21.5	32.9	37.3	31.1	60.7	46.6	58.8	63.4	58.9	56.5	43.2	45.1	48.1	33.1	22.5	20.2	9.8	33.8	63.4
22	8.6	13.7	9.2	7.4	13.7	10.0	9.2	8.5	8.8	26.1	P	4.6	4.7	13.7	10.8	11.6	14.0	11.3	13.0	10.7	17.1	17.1	17.6	12.7	11.9	26.1
23	23.0	23.0	21.0	19.1	23.2	8.4	14.8	14.3	17.5	30.8	26.1	48.8	12.8	15.4	35.6	23.2	38.0	73.0	58.8	23.5	36.5	31.4	21.9	28.7	27.9	73.0
24	18.0	38.8	20.0	16.2	20.1	24.8	17.9	22.0	47.6	79.4	119.6	168.7	141.7	110.6	221.1	143.7	83.0	24.4	21.0	20.7	72.5	57.7	31.2	50.2	65.5	221.1
25	40.7	46.0	52.2	26.0	25.5	14.5	29.6	26.1	76.2	11.9	25.2	25.6	34.3	103.0	81.9	5.5	29.8	35.9	11.1	16.3	11.5	11.4	18.4	19.5	32.4	103.0
26	13.7	20.6	10.7	17.7	10.0	11.7	6.5	6.3	6.8	8.2	17.5	11.2	10.0	18.6	11.6	13.1	18.1	4.4	2.4	3.2	13.1	16.9	19.0	13.3	11.9	20.6
27	16.0	23.9	20.2	24.9	28.5	27.5	17.5	24.5	0.0	16.5	6.8	10.7	18.7	11.3	14.1	15.1	16.2	18.3	15.1	15.3	14.8	12.0	10.6	13.7	16.3	28.5
28	17.3	22.8	9.5	8.9	14.6	5.4	13.2	8.6	13.2	23.4	18.0	11.8	14.0	9.3	14.5	27.2	29.4	28.6	13.5	29.8	22.1	24.7	19.9	19.3	17.5	29.8
29	17.4	30.8	25.5	14.4	17.7	22.1	15.4	32.6	33.1	33.8	34.8	31.0	23.7	50.1	48.7	37.4	56.6	37.2	31.2	20.7	26.8	34.1	23.7	33.7	30.5	56.6
30	27.7	36.9	27.7	29.5	35.0	46.3	31.1	45.6	60.6	68.1	93.2	147.7	55.4	90.3	69.0	116.2	212.9	50.7	39.1	13.6	46.4	104.1	50.6	33.0	63.8	212.9
31	27.1	50.2	25.4	37.8	30.4	42.3	50.4	48.4	50.2	55.0	75.7	87.3	61.2	106.5	76.3	75.1	79.6	69.4	62.7	36.6	36.9	27.2	30.8	51.4	53.9	106.5
NO.	31	31	31	31	31	31	31	31	31	31	29	30	31	31	30	30	30	31	31	30	30	30	31	31	735	99.1%
MEAN	31.9	39.2	30.9	36.8	32.2	24.1	27.5	53.9	57.1	57.3	72.1	78.9	84.6	100.8	82.7	95.1	92.0	63.7	52.2	45.0	74.9	52.7	26.4	24.1		
MAX	258.0	405.2	192.5	444.5	160.3	92.6	123.7	265.5	431.4	471.6	480.1	867.2	993.0	810.9	386.3	999.2	595.6	347.1	379.6	286.3	873.5	484.7	132.0	61.4		



Number of 24HR Exceedences	4
Number of Non-Zero Readings	733
Maximum 1-HR Average	999.2 UG/M3
Maximum 24-HR Average	313.1 UG/M3
Monthly Calibration	2
Standard Deviation	102.1
Operational time	737 HRS
Operational Uptime	99.1 %
Monthly Average	55.4 UG/M3

Lagoon Temperature (°C) – July 2025

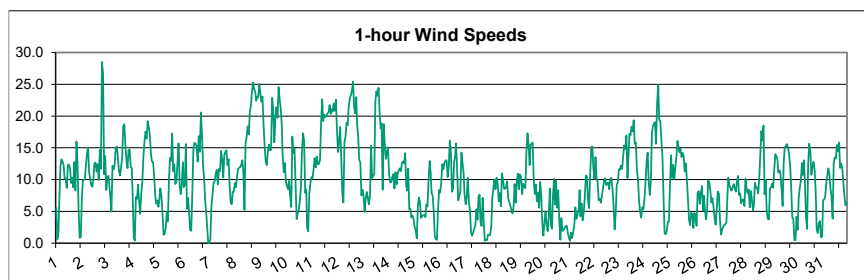
HOUR																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		MEAN	MAX
1	14.8	12.6	11.4	12.0	12.5	12.3	12.9	14.5	17.8	21.2	24.6	27.1	28.0	28.9	29.4	29.8	29.9	30.5	29.6	25.3	23.5	20.6	17.4	16.1		21.0	30.5
2	16.4	16.5	16.0	15.2	14.7	15.1	15.2	17.0	19.8	22.0	24.3	26.1	28.2	28.6	27.3	26.3	25.9	23.1	22.8	23.0	19.6	17.6	18.4	16.9		20.7	28.6
3	15.9	14.8	13.7	12.8	10.8	12.1	13.2	14.9	15.8	17.0	17.8	18.7	19.8	22.7	23.8	22.1	18.1	17.2	17.0	16.7	14.8	13.2	12.5	11.9		16.1	23.8
4	11.1	10.1	8.5	8.8	8.7	9.4	11.1	12.7	14.6	16.9	17.9	18.6	19.1	19.2	19.6	19.1	19.6	19.5	19.3	18.0	16.3	15.1	15.3	15.3		15.2	19.6
5	15.0	14.6	13.9	13.3	12.2	11.4	11.7	13.4	15.4	17.5	18.7	20.6	22.3	21.4	20.1	20.8	21.9	21.8	20.7	18.7	17.3	15.6	15.1	14.7		17.0	22.3
6	13.6	13.4	12.3	11.5	11.3	11.3	11.7	13.2	14.2	14.8	15.2	16.7	16.7	17.0	17.8	18.3	18.2	16.0	15.9	15.2	14.7	13.0	11.0	9.5		14.3	18.3
7	8.4	7.7	9.1	9.2	9.0	8.8	9.2	10.2	13.4	16.6	19.8	22.1	23.6	24.6	25.3	25.8	26.4	26.8	26.6	25.0	22.0	19.8	20.2	20.4		17.9	26.8
8	20.4	19.6	18.2	17.1	16.0	15.4	14.6	13.9	14.0	16.4	25.7	27.4	28.1	28.8	29.5	29.8	29.9	30.0	29.9	28.7	27.5	27.2	26.9	26.7		23.4	30.0
9	26.3	25.3	24.0	22.7	22.2	21.2	21.3	22.3	23.5	22.8	23.1	22.8	23.8	23.6	22.5	22.2	21.7	19.7	17.9	18.1	17.2	16.4	16.9	17.1		21.4	26.3
10	15.7	14.9	14.3	13.5	13.1	13.3	12.9	11.8	10.0	8.6	8.2	8.0	8.4	10.4	11.9	14.6	16.3	17.2	16.1	13.5	11.5	9.2	9.4	9.2		12.2	17.2
11	9.0	8.5	8.0	7.5	7.2	6.7	7.2	8.9	11.8	15.7	18.6	20.7	22.4	23.4	24.0	25.9	25.0	25.2	24.7	23.3	22.2	21.3	21.1	20.9		17.0	25.9
12	20.6	20.4	20.5	20.2	19.5	18.9	19.5	20.8	22.5	22.7	22.5	23.5	24.5	25.1	25.6	26.0	26.0	25.9	24.6	23.5	22.5	21.4	20.8	20.1		22.4	26.0
13	19.2	18.5	16.9	16.5	16.6	16.3	16.5	17.3	19.0	21.2	21.9	22.3	25.7	25.7	25.2	24.9	24.6	24.7	23.4	22.4	18.8	16.8	16.2	14.9		20.2	25.7
14	13.5	12.7	12.4	12.1	12.0	12.0	11.6	11.2	11.1	11.1	10.8	11.4	11.5	11.6	11.2	10.5	10.2	10.0	9.8	9.5	9.5	9.2	8.7		11.1	13.5	
15	8.2	8.2	8.3	8.5	8.4	8.5	8.6	8.7	10.2	12.8	14.4	14.8	14.6	15.1	16.3	16.1	16.5	15.7	15.3	13.9	11.3	9.3	8.1	8.0		11.7	16.5
16	8.7	8.2	8.0	7.7	7.1	7.2	7.5	9.5	12.7	15.6	18.3	20.0	21.8	22.4	22.5	-11.2	22.2	21.2	19.8	18.6	17.0	16.2	14.7	13.3		13.7	22.5
17	12.2	11.3	10.8	10.8	10.8	10.2	10.1	10.2	10.3	10.5	10.6	11.3	11.5	11.8	12.5	13.9	14.9	14.9	13.7	13.0	10.9	9.5	8.8	8.4		11.4	14.9
18	7.8	7.9	8.3	8.2	8.2	8.0	8.7	10.1	13.1	15.2	18.0	18.7	20.2	21.2	21.5	22.1	21.3	19.1	P	P	P	13.5	13.0	12.7		14.1	22.1
19	12.2	11.9	11.4	11.1	11.0	11.1	11.6	12.6	14.2	16.2	18.8	19.9	20.7	21.2	19.2	19.3	19.3	18.0	17.8	17.1	16.0	14.8	13.7	13.2		15.5	21.2
20	12.8	12.3	11.9	11.8	11.8	11.7	11.9	12.4	12.8	13.9	15.5	15.1	15.2	15.8	16.9	15.7	13.6	12.8	13.3	13.2	12.7	12.6	12.2	12.1		13.3	16.9
21	11.8	11.3	11.1	11.1	11.1	11.2	11.4	12.0	13.1	14.5	16.1	16.9	17.6	12.8	12.7	13.2	13.3	13.5	12.8	11.9	11.5	11.1	10.8	10.2		12.6	17.6
22	9.5	9.1	8.8	8.3	7.8	7.5	7.6	7.7	7.6	4.6	P	8.8	8.8	8.8	9.2	9.2	9.6	10.1	10.3	10.2	9.4	8.1	7.3	7.7		8.5	10.3
23	7.7	7.6	7.5	7.1	6.6	6.6	7.1	8.5	11.2	13.9	16.6	19.1	20.6	21.3	21.9	22.4	23.2	21.8	20.8	19.4	17.8	15.7	13.1	13.1		14.6	23.2
24	13.0	14.8	14.8	15.5	15.0	14.8	15.2	16.9	20.3	22.2	23.0	22.9	23.5	24.2	25.6	25.8	26.2	25.9	25.3	24.0	19.1	16.4	15.1	14.2		19.7	26.2
25	14.1	14.4	15.1	14.5	14.6	13.8	14.4	14.0	14.7	15.3	15.8	16.1	16.7	16.0	13.7	13.9	13.6	13.4	12.7	12.2	11.7	11.6	11.5	11.2		14.0	16.7
26	11.0	10.9	10.8	10.6	10.2	10.1	10.0	9.6	9.9	9.8	10.1	10.9	11.6	11.8	11.7	11.7	11.5	12.9	13.7	12.9	11.9	12.1	12.3	12.2		11.2	13.7
27	12.2	12.1	12.1	12.2	12.0	11.7	11.7	11.6	12.3	12.9	12.9	13.0	12.3	12.3	13.1	12.5	13.2	13.3	12.7	12.5	12.5	12.3	12.2	11.9		12.4	13.3
28	11.3	11.4	11.4	11.4	11.4	11.4	11.8	12.4	12.8	14.0	15.9	17.1	18.7	19.1	19.1	18.5	17.6	16.1	15.8	15.6	15.0	13.7	12.7	12.5		14.5	19.1
29	12.5	12.0	11.0	10.4	9.9	9.7	10.1	10.8	12.7	15.7	18.6	21.1	22.8	23.8	24.4	24.7	24.2	23.5	22.7	20.9	18.3	16.1	14.6	13.4		16.8	24.7
30	12.9	12.5	13.0	12.9	13.1	13.1	13.6	14.6	17.1	20.5	23.4	24.2	25.1	26.3	25.6	24.8	23.5	22.6	21.5	20.3	18.7	17.7	16.7	15.4		18.7	26.3
31	14.2	14.6	14.8	14.5	14.2	13.8	14.2	15.4	17.7	20.7	23.8	24.7	26.3	27.6	27.9	27.8	28.0	26.9	25.5	23.4	21.4	20.1	18.2	18.0		20.6	28.0
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31		740	99.5%
MEAN	13.3	12.9	12.5	12.2	11.9	11.8	12.1	12.9	14.4	15.9	18.0	18.7	19.7	20.1	20.2	19.3	20.2	19.7	19.1	18.0	16.4	15.1	14.4	13.9			
MAX	26.3	25.3	24.0	22.7	22.2	21.2	21.3	22.3	23.5	22.8	25.7	27.4	28.2	28.9	29.5	29.8	29.9	30.5	29.9	28.7	27.5	27.2	26.9	26.7			



Number of Non-Zero Readings	740
Maximum 1-HR Average	30.5 C
Maximum 24-HR Average	23.4 C
Monthly Calibration	0
Standard Deviation	5.688
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	15.9 C

Lagoon Wind Speed (km/hr) – July 2025

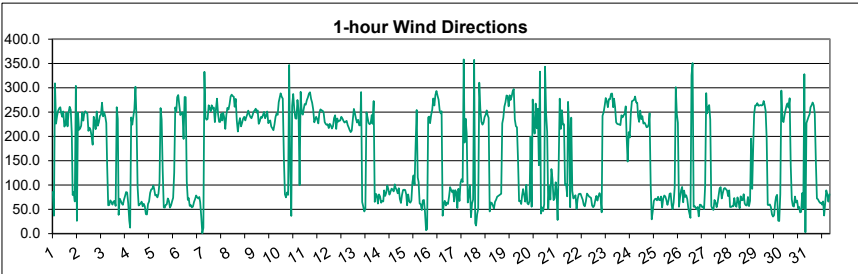
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	5.5	0.6	1.7	6.5	12.0	13.2	12.9	12.3	10.3	10.1	8.7	12.2	12.4	11.8	9.5	10.3	8.8	12.8	8.3	16.0	12.6	5.2	0.8	0.9	9.0	16.0
2	6.7	9.9	10.0	10.1	12.2	14.2	15.0	11.2	10.1	9.1	8.9	10.2	12.6	12.7	11.2	12.4	9.9	14.7	11.7	28.5	26.6	10.8	13.7	8.3	12.5	28.5
3	10.4	10.6	9.1	7.3	5.0	12.2	11.6	12.3	15.0	15.2	13.6	11.3	10.6	12.0	13.3	18.3	18.7	15.5	13.1	11.8	14.6	14.7	12.0	11.8	12.5	18.7
4	6.4	0.9	0.4	7.2	7.0	9.2	6.5	4.6	7.8	9.6	13.6	16.0	17.5	16.5	19.2	18.3	17.1	14.1	12.8	12.8	10.7	7.6	6.2	6.7	10.4	19.2
5	5.7	6.7	8.6	7.4	4.7	1.3	1.5	2.4	4.9	3.4	9.9	13.4	13.0	17.2	11.3	12.4	9.3	9.7	12.8	15.7	9.2	7.7	9.3	12.7	8.8	17.2
6	8.8	9.2	15.6	5.4	7.1	4.8	2.0	1.9	8.0	14.8	15.8	15.6	15.3	12.8	16.8	14.4	20.5	17.1	12.2	10.2	6.6	4.7	2.1	0.0	10.1	20.5
7	0.0	0.6	5.7	7.7	9.5	9.7	10.9	11.5	9.2	11.7	11.3	14.5	13.2	10.3	13.9	14.4	14.6	12.3	13.2	9.0	6.3	6.1	8.0	8.1	9.7	14.6
8	9.4	8.8	10.4	11.6	11.9	12.0	12.3	13.0	11.2	5.2	15.7	16.6	18.4	17.1	20.6	21.7	23.9	25.3	24.2	23.9	22.4	23.1	22.9	25.0	16.9	25.3
9	23.6	22.3	23.1	18.6	15.3	12.8	12.3	14.4	15.5	14.6	14.7	22.9	21.0	15.9	19.7	21.4	19.7	24.6	22.6	21.2	18.5	13.8	11.1	12.6	18.0	24.6
10	9.7	9.0	8.5	9.8	7.3	5.7	16.8	14.2	14.9	9.7	3.8	4.6	5.2	6.5	8.8	14.5	17.3	16.2	8.0	8.5	2.4	1.9	7.7	9.3	9.2	17.3
11	10.4	10.2	11.6	13.4	11.9	13.6	12.4	12.5	13.1	18.8	22.6	19.2	20.2	19.9	20.0	20.4	20.6	21.7	20.3	21.1	20.7	22.0	20.9	22.6	17.5	22.6
12	17.9	14.3	16.0	18.3	13.4	8.0	6.4	15.9	16.8	18.9	18.6	21.5	22.8	23.3	24.0	25.4	21.4	20.4	23.0	18.7	16.7	13.1	12.7	7.5	17.3	25.4
13	8.4	7.5	4.9	7.0	8.1	7.1	6.1	7.6	15.3	10.3	10.6	10.8	22.3	23.9	23.2	24.4	20.5	18.1	18.8	8.4	18.7	15.5	13.2	14.3	13.5	24.4
14	15.1	10.8	9.5	9.6	10.5	10.9	8.6	11.2	9.3	11.0	11.4	11.8	11.3	12.7	12.9	12.6	14.2	9.1	8.3	11.7	5.3	5.4	4.0	4.4	10.1	15.1
15	3.8	2.5	2.0	0.7	5.6	7.2	6.4	4.0	4.2	4.4	4.4	4.1	6.1	5.7	9.9	12.9	11.0	7.9	7.5	5.1	1.1	0.6	0.5	5.2	5.1	12.9
16	8.4	7.9	9.5	12.4	11.6	12.6	13.0	13.0	10.4	12.0	16.1	14.4	8.1	8.5	12.7	13.8	15.7	11.7	6.7	7.3	8.1	14.3	12.7	11.1	11.3	16.1
17	7.5	6.1	7.3	10.3	6.3	5.2	1.7	1.2	1.7	2.3	2.8	5.3	3.7	7.4	7.6	3.4	2.7	7.1	3.4	0.4	0.5	0.5	1.3	1.3	4.0	10.3
18	1.2	2.6	7.1	8.6	10.0	8.5	10.3	9.5	6.6	7.9	5.8	11.0	10.0	8.5	8.6	8.8	9.7	7.1	P	P	P	4.7	5.7	9.3	7.7	11.0
19	6.4	9.7	10.9	8.5	10.8	10.4	7.7	9.3	8.9	8.6	14.5	17.3	15.5	12.3	15.5	15.6	15.8	10.1	7.8	9.2	6.6	8.0	5.5	9.6	10.6	17.3
20	7.5	3.2	1.2	3.2	5.0	3.0	1.9	4.1	8.6	2.8	2.3	7.7	10.1	6.1	9.8	5.6	8.3	3.7	0.5	4.0	1.9	2.1	2.3	2.7	4.5	10.1
21	2.7	1.6	0.9	0.3	1.7	0.8	1.8	2.8	5.6	3.8	4.4	5.1	8.3	4.2	6.3	3.6	4.8	7.1	10.6	10.5	6.8	5.5	10.7	14.9	5.2	14.9
22	15.2	11.9	10.1	13.5	10.2	9.6	6.8	7.0	6.3	7.4	P	9.9	10.2	9.2	9.2	9.6	8.5	10.1	10.3	8.5	6.0	2.2	4.6	9.3	8.9	15.2
23	9.6	11.6	11.5	12.2	11.7	13.7	15.4	14.8	17.0	10.2	13.9	17.2	16.9	18.3	17.6	19.4	15.6	15.8	11.5	10.1	6.6	4.9	4.0	5.7	12.7	19.4
24	5.3	6.8	9.7	12.8	14.2	9.6	7.6	9.8	17.3	18.5	18.8	19.0	15.6	21.9	24.9	19.5	19.2	16.1	13.7	7.2	1.6	1.4	1.9	3.4	12.3	24.9
25	3.4	9.0	13.8	10.3	12.3	10.1	11.9	13.6	16.1	15.1	14.3	14.8	13.5	14.2	13.7	11.3	12.5	9.8	6.8	3.6	2.8	4.8	4.6	2.4	10.2	16.1
26	4.8	4.2	2.7	7.9	8.2	6.2	7.9	9.0	5.1	7.5	5.2	3.8	5.2	9.9	9.6	8.3	6.4	7.1	5.7	4.0	2.9	5.4	8.2	7.8	6.4	9.9
27	3.6	1.3	2.1	2.6	2.9	3.0	3.3	7.7	10.3	9.1	8.6	8.2	8.8	9.3	8.6	8.1	9.7	10.6	7.6	7.8	6.2	6.9	6.9	5.8	6.6	10.6
28	10.2	8.6	7.8	8.4	5.6	8.2	6.8	5.1	5.9	9.5	8.8	8.7	7.9	10.1	14.0	17.6	16.2	18.5	7.7	10.0	4.9	3.8	3.7	8.6	9.0	18.5
29	8.8	9.4	8.7	11.6	14.0	13.7	13.1	11.1	11.5	10.8	8.7	5.8	12.7	15.1	15.2	15.6	15.1	14.0	12.2	8.8	4.0	3.8	0.4	0.5	10.2	15.6
30	4.2	2.1	7.2	8.8	9.8	12.6	10.7	13.1	9.5	4.0	2.2	12.3	15.7	14.6	10.8	11.9	12.8	11.6	8.2	2.1	1.6	3.1	3.5	0.9	8.0	15.7
31	1.1	6.8	6.9	7.4	9.6	10.5	11.8	10.9	8.6	7.2	3.9	12.5	13.5	13.3	15.4	14.4	15.8	11.8	12.5	11.8	9.6	7.5	5.9	6.4	9.8	15.8
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31	740	99.5%
MEAN	7.8	7.3	8.2	9.0	9.2	9.0	8.8	9.4	10.2	9.8	10.5	12.2	12.8	12.9	14.0	14.2	14.1	13.3	11.4	10.9	8.8	7.4	7.3	8.0		
MAX	23.6	22.3	23.1	18.6	15.3	14.2	16.8	15.9	17.3	18.9	22.6	22.9	22.8	23.9	24.9	25.4	23.9	25.3	24.2	28.5	26.6	23.1	22.9	25.0		



Number of Non-Zero Readings	740		
Maximum 1-HR Average	28.5 KM/HR		
Maximum 24-HR Average	18.0 KM/HR		
Monthly Calibration	0	Operational Time	740 HRS
Standard Deviation	5.567	Operational Uptime	99.5 %
		Monthly Average	10.3 KM/HR

Lagoon Wind Direction (°) – July 2025

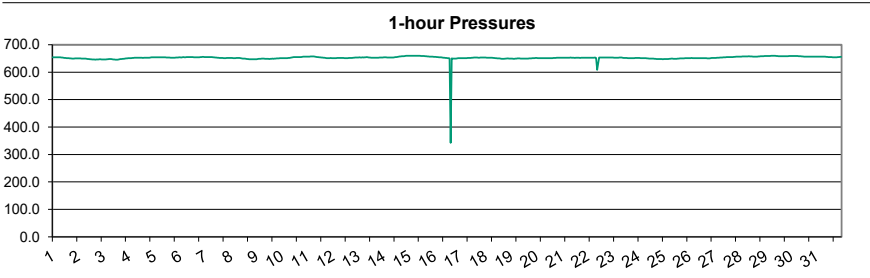
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	85.7	36.6	309.4	226.1	242.3	253.2	257.8	260.1	248.4	240.3	251.4	220.2	223.8	248.8	220.4	250.1	261.1	254.4	204.7	79.1	85.8	66.0	304.2	26.0	238.7	309.4
2	248.6	213.5	216.4	221.8	249.4	232.5	245.7	251.6	249.0	248.0	211.5	217.9	213.1	200.6	182.7	240.4	229.4	215.0	251.5	221.8	229.0	242.3	244.9	269.1	230.1	269.1
3	241.4	249.6	241.3	227.8	141.1	58.2	58.8	68.3	64.9	59.3	65.9	66.9	57.0	260.2	235.9	38.5	71.8	67.2	61.5	58.9	69.7	77.0	85.4	84.5	67.3	260.2
4	62.2	26.9	11.9	239.1	224.2	240.7	256.5	302.2	236.2	96.9	57.8	60.0	62.2	65.6	55.8	61.1	56.1	39.9	39.1	60.8	65.9	83.8	90.5	92.1	61.0	302.2
5	99.2	91.6	78.3	79.5	74.2	81.7	105.4	258.2	234.7	129.6	53.7	53.3	58.9	60.0	72.4	67.5	53.4	57.6	66.1	73.5	125.2	259.6	251.4	280.8	68.1	280.8
6	285.1	263.7	243.8	248.6	249.5	194.8	281.3	280.7	106.8	69.3	73.0	57.0	58.8	53.7	55.7	64.7	70.8	78.4	74.2	72.4	75.3	64.9	35.4	0.7	65.5	285.1
7	11.7	333.0	238.3	234.1	236.0	263.9	257.7	251.9	264.0	256.4	259.5	229.5	255.8	277.7	246.1	229.6	230.0	246.4	233.0	248.6	238.9	215.5	244.4	258.7	246.3	333.0
8	255.1	266.1	282.1	286.0	283.0	281.4	260.9	277.1	232.6	209.9	227.4	237.6	220.8	228.2	236.7	240.3	233.0	239.1	245.0	253.0	245.3	240.0	237.3	243.3	245.6	286.0
9	250.7	253.6	257.0	248.8	253.4	225.7	230.5	240.1	238.3	243.9	250.5	237.1	243.0	251.5	227.1	229.8	232.8	220.3	216.6	212.8	224.7	240.1	247.4	244.5	237.8	257.0
10	270.5	280.6	288.7	281.7	277.7	159.1	81.0	74.4	84.5	79.8	347.1	130.4	36.2	262.6	287.4	255.5	237.3	236.2	275.0	253.9	99.4	291.7	248.2	244.6	260.3	347.1
11	255.8	266.7	265.2	274.5	280.2	288.2	290.9	277.0	269.5	255.1	229.1	234.2	240.5	235.0	226.6	248.9	255.7	253.1	252.9	248.9	229.4	225.3	223.6	225.1	247.9	290.9
12	217.3	226.0	222.5	216.2	221.2	237.5	243.5	215.4	236.7	230.3	232.1	233.0	240.5	236.9	232.0	228.3	230.4	232.1	223.3	217.8	213.2	208.6	212.0	234.6	226.8	243.5
13	256.4	247.5	235.8	228.3	234.3	222.6	222.8	291.2	64.7	55.5	45.5	50.5	249.5	239.4	227.4	225.0	227.4	243.8	225.9	272.8	65.4	82.0	78.8	61.6	230.6	291.2
14	80.6	76.1	63.3	66.9	65.9	88.9	77.7	84.1	99.0	91.0	80.3	85.9	92.5	90.8	86.7	101.2	94.0	89.8	82.8	93.2	71.3	62.8	79.2	89.7	84.3	101.2
15	90.3	90.0	80.6	58.0	80.5	66.4	63.5	67.8	105.5	119.7	100.4	182.5	254.6	115.3	106.1	61.8	60.5	48.7	68.4	69.0	44.7	6.9	8.8	239.1	80.6	254.6
16	240.6	227.1	244.3	254.8	277.9	263.5	285.6	293.4	283.9	275.5	253.3	247.2	251.8	36.5	60.0	67.5	57.7	63.9	60.8	75.7	95.5	89.3	84.8	89.3	305.5	293.4
17	66.2	89.5	85.3	52.3	91.9	66.9	104.8	111.6	106.0	358.5	187.3	236.3	205.8	64.1	79.9	99.6	33.8	61.6	70.1	357.4	21.4	16.3	39.9	50.5	75.4	358.5
18	310.5	257.1	230.2	223.9	227.9	239.8	244.9	253.4	244.5	238.2	45.3	63.9	62.9	57.3	51.6	65.3	69.7	75.8	P	P	P	82.1	226.8	238.0	212.3	310.5
19	261.3	270.0	284.1	283.2	261.9	284.5	275.2	281.8	292.9	297.5	235.2	221.2	218.7	152.0	66.3	67.4	60.9	77.4	91.5	78.8	65.7	100.4	62.7	59.8	278.6	297.5
20	66.6	199.6	55.2	276.0	229.9	205.7	267.5	216.5	257.1	140.5	333.2	41.0	53.7	46.5	60.4	343.4	246.1	208.7	50.5	97.7	69.9	132.9	111.3	68.6	59.0	343.4
21	73.0	105.5	86.4	27.7	141.7	277.7	215.4	254.1	223.9	224.9	99.8	101.2	76.4	270.9	216.0	54.1	238.6	87.7	72.1	74.9	78.6	50.7	70.3	81.0	87.9	277.7
22	82.0	81.8	75.1	69.8	58.6	56.2	67.0	82.3	79.4	76.3	P	73.7	57.9	54.2	57.3	68.8	77.6	67.7	76.4	83.3	75.2	43.6	242.4	249.0	71.0	249.0
23	262.8	279.0	272.7	259.9	276.7	276.5	287.6	288.0	260.1	277.7	260.3	229.0	225.7	224.9	224.5	223.4	243.6	239.1	243.4	246.3	262.0	201.1	148.0	208.6	250.1	288.0
24	197.9	248.9	272.3	273.9	274.9	281.9	269.8	269.1	241.3	230.0	253.1	235.7	241.6	226.2	228.7	224.5	219.0	219.9	225.0	247.6	104.1	29.2	45.8	66.8	240.6	281.9
25	70.8	71.8	68.4	75.6	68.8	69.2	76.3	54.0	72.4	78.2	76.1	68.8	59.1	68.4	81.8	82.9	57.8	50.2	64.1	95.6	301.3	246.0	228.1	55.2	69.6	301.3
26	74.1	88.7	95.8	64.2	88.3	75.1	78.7	71.1	52.0	41.4	32.4	325.7	350.8	55.1	56.4	53.9	49.7	54.8	35.4	59.4	59.0	54.6	55.5	50.3	56.7	350.8
27	98.1	289.0	247.5	259.8	264.6	234.8	56.5	50.7	48.7	69.0	63.9	54.1	64.8	77.7	93.0	95.3	72.2	83.6	92.2	93.7	91.2	88.3	77.2	88.8	75.9	289.0
28	54.5	54.7	56.5	55.8	73.2	57.7	54.9	74.5	65.1	52.0	76.8	68.8	68.5	80.9	61.7	58.0	57.9	75.5	56.4	67.3	195.7	91.8	165.0	244.7	66.2	244.7
29	263.4	263.4	268.5	263.0	263.6	264.5	263.8	264.6	272.8	265.9	253.1	196.2	59.0	58.4	59.8	54.1	39.4	34.7	38.0	63.8	75.6	79.9	26.7	25.7	329.2	272.8
30	81.2	294.5	233.2	229.3	244.2	254.9	264.4	268.0	259.4	278.5	140.8	70.3	56.9	55.4	76.1	63.7	67.9	51.6	55.3	43.6	44.4	83.2	51.9	328.1	40.8	328.1
31	2.6	227.8	234.2	240.9	245.9	259.9	264.2	269.6	264.2	245.9	149.6	72.3	70.3	66.0	63.2	63.6	59.5	66.1	36.9	63.6	88.9	81.5	65.8	80.9	61.1	269.6
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31	740	99.5%
MEAN	158.6	192.6	188.5	195.1	200.1	195.6	193.9	203.3	185.8	178.5	164.8	148.4	149.4	142.6	136.6	136.4	135.3	130.3	126.3	139.5	123.7	123.8	138.5	147.7		
MAX	310.5	333.0	309.4	286.0	283.0	288.2	290.9	302.2	292.9	358.5	347.1	325.7	350.8	277.7	287.4	343.4	261.1	254.4	275.0	357.4	301.3	291.7	304.2	328.1		



Number of Non-Zero Readings	740
Maximum 1-HR Average	359 degrees
Maximum 24-HR Average	329 degrees
Monthly Calibration	0
Standard Deviation	92.73
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	159.9 degrees

Lagoon Pressure (mmHg) – July 2025

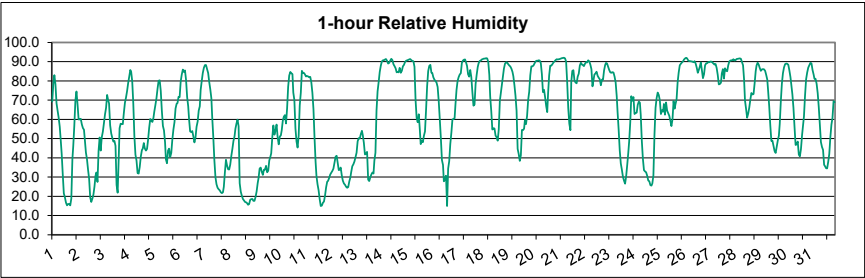
HOUR																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	
1	653.9	654.1	654.2	654.1	654.1	654.2	654.2	654.2	653.8	653.2	652.5	652.1	651.7	651.2	651.0	650.8	650.3	649.9	649.8	649.6	649.9	650.1	650.1	650.0	652.0	654.2	
2	650.1	650.1	650.0	649.8	649.9	649.8	649.6	649.3	648.8	648.3	647.8	647.3	646.8	646.3	646.4	646.6	645.8	646.8	646.0	646.0	647.1	647.0	646.2	646.4	647.8	650.1	
3	646.5	646.5	646.6	646.9	647.3	647.6	647.7	647.6	647.1	646.5	646.1	645.9	645.8	645.8	646.0	646.8	647.6	648.0	648.4	648.7	649.3	650.1	650.6	650.9	647.5	650.9	
4	651.0	651.1	651.3	651.6	651.9	652.4	652.7	652.9	652.9	652.7	652.7	652.5	652.3	652.2	652.3	652.4	652.3	652.3	652.6	653.0	653.4	653.9	654.2	654.2	652.5	654.2	
5	654.3	654.2	654.2	654.3	654.3	654.2	654.3	654.4	654.5	654.3	654.0	653.6	653.2	653.3	653.3	653.0	652.7	652.4	652.4	652.8	652.8	653.1	653.7	653.7	653.9	653.7	654.5
6	653.9	653.8	654.5	654.7	654.6	654.6	654.7	655.0	655.3	655.1	655.1	654.8	654.7	654.5	654.2	654.2	654.2	654.6	654.6	654.9	655.2	655.5	655.5	655.2	654.7	655.5	
7	655.2	655.0	655.0	654.9	654.9	654.9	654.8	654.7	654.3	653.9	653.3	652.8	652.3	652.1	652.0	651.8	651.6	651.4	651.3	651.3	651.5	651.8	651.9	651.9	653.1	655.2	
8	651.8	651.7	651.4	651.2	651.3	651.5	651.6	651.8	651.7	651.1	650.4	649.9	649.5	649.1	648.8	648.3	647.8	647.2	647.0	646.9	646.9	647.0	647.0	647.1	649.5	651.8	
9	647.3	647.7	648.4	648.7	649.0	649.3	649.3	649.2	648.9	648.7	648.6	648.6	648.3	648.5	649.0	649.1	649.1	649.3	649.7	649.9	650.2	650.7	650.8	650.8	649.1	650.8	
10	651.0	651.0	651.0	651.1	650.9	650.9	651.6	652.2	652.9	653.7	654.4	654.8	655.4	655.3	655.3	655.1	654.9	654.8	655.2	656.0	656.4	656.6	656.7	656.7	653.9	656.7	
11	656.7	656.8	657.0	657.1	657.1	657.1	657.0	656.6	656.1	655.4	654.9	654.5	653.9	653.5	653.2	652.8	652.3	651.9	651.5	651.4	651.4	651.5	651.6	651.5	654.3	657.1	
12	651.3	651.0	651.2	651.4	651.6	651.8	651.9	651.9	651.9	651.8	651.7	651.4	651.4	651.4	651.4	651.6	651.8	652.0	652.1	652.5	652.7	653.2	653.4	653.7	651.9	653.7	
13	653.8	653.9	653.7	653.7	653.9	653.8	653.9	654.4	654.7	654.1	653.6	653.4	653.1	652.8	652.9	652.7	652.5	652.4	652.7	653.0	653.2	653.6	653.8	653.8	653.5	654.7	
14	654.1	654.5	654.2	653.6	653.5	653.7	653.7	653.8	653.8	653.8	653.8	654.1	654.9	655.3	655.9	656.7	657.2	657.5	657.9	658.3	658.5	659.1	659.4	659.6	655.9	659.6	
15	659.8	659.9	659.7	659.5	659.6	659.7	660.0	660.1	660.0	659.8	659.6	659.4	659.3	659.1	658.7	658.3	657.9	657.5	657.1	656.9	656.7	656.6	656.4	656.1	658.7	660.1	
16	656.0	655.6	655.2	654.8	654.5	654.2	653.9	653.5	653.0	652.6	652.0	651.6	651.2	650.8	650.5	342.1	650.0	649.5	649.5	649.7	649.7	650.3	650.9	651.4	639.3	656.0	
17	651.3	650.9	650.7	650.7	651.0	651.2	651.3	651.5	651.7	651.8	652.1	652.4	652.7	653.1	653.3	653.3	653.1	653.0	653.1	653.3	653.2	653.3	653.5	653.2	652.3	653.5	
18	653.2	653.0	652.8	652.6	652.5	652.6	652.5	652.2	651.9	651.4	651.0	650.6	650.2	649.9	649.5	649.0	648.9	648.8	P	P	P	650.1	649.8	649.5	651.0	653.2	
19	649.5	649.3	649.0	649.1	649.3	649.6	649.9	650.1	650.0	649.8	649.5	649.4	649.2	649.4	649.6	649.8	649.9	650.2	650.2	650.6	650.8	651.2	651.4	651.6	649.9	651.6	
20	651.7	651.5	651.3	651.2	651.2	651.4	651.4	651.5	651.4	651.3	651.3	651.4	651.4	651.3	651.3	651.5	651.8	652.1	652.2	652.4	652.6	653.0	653.0	653.0	651.7	653.0	
21	653.0	652.8	652.6	652.6	652.7	652.8	653.0	653.0	653.1	652.9	652.7	652.5	652.1	652.5	652.6	652.6	652.4	652.3	652.4	652.8	652.9	652.9	652.7	652.6	652.7	653.1	
22	652.8	652.7	652.7	652.8	652.9	652.9	653.0	653.1	651.8	608.6	P	653.5	653.5	653.5	653.5	653.4	653.3	653.2	653.2	653.3	653.3	653.5	653.4	653.3	651.2	653.5	
23	653.2	653.0	652.9	652.9	652.9	653.0	653.1	653.1	653.1	652.8	652.3	652.0	651.8	651.7	651.5	651.2	651.2	651.4	651.3	651.3	651.4	651.6	651.8	651.7	652.2	653.2	
24	651.6	651.6	651.4	651.2	651.0	651.2	651.1	650.8	650.5	650.1	649.9	649.6	649.5	649.5	649.1	648.8	648.6	648.3	647.9	647.8	647.8	647.9	647.7	647.6	649.6	651.6	
25	647.7	647.8	648.2	648.2	648.3	648.6	648.9	649.2	649.2	649.1	649.0	649.0	648.9	649.4	649.9	650.1	650.0	650.1	650.3	650.6	650.8	651.1	651.1	651.1	649.4	651.1	
26	651.2	651.3	651.5	651.4	651.4	651.4	651.4	651.4	651.4	651.3	651.4	651.4	651.3	651.4	651.4	651.3	651.1	650.6	650.4	650.5	651.1	651.6	651.8	652.0	651.3	652.0	
27	652.1	652.3	652.4	652.6	652.9	653.2	653.5	653.8	654.0	654.3	654.6	654.8	655.0	655.1	655.1	655.3	655.4	655.2	655.6	655.9	656.3	656.5	656.5	657.0	654.5	657.0	
28	657.0	657.0	657.1	657.1	657.3	657.4	657.4	657.6	657.9	657.6	657.3	657.1	656.8	656.7	656.6	656.5	656.7	657.3	657.5	658.0	658.2	658.5	658.6	658.7	657.4	658.7	
29	658.8	658.9	659.0	659.1	659.3	659.5	659.8	659.9	659.8	659.5	659.2	658.9	658.6	658.4	658.3	658.2	658.1	658.2	658.1	658.2	658.4	658.6	658.7	658.8	658.8	659.9	
30	658.7	658.8	658.8	658.7	658.7	658.7	658.7	658.5	658.2	657.9	657.6	657.2	656.9	656.7	656.4	656.5	656.6	656.4	656.6	656.6	656.5	656.9	656.9	656.7	657.5	658.8	
31	656.7	656.6	656.6	656.5	656.6	656.7	656.7	656.7	656.4	656.0	655.7	655.4	655.0	654.7	654.7	654.5	654.1	654.1	654.1	654.4	654.9	655.3	655.5	655.6	655.6	656.7	
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31	740	99.5%	
MEAN	653.1	653.0	653.1	653.0	653.1	653.2	653.3	653.3	653.2	651.6	652.8	652.7	652.5	652.4	652.4	642.4	652.2	652.2	652.2	652.4	652.6	652.8	653.0	653.1	653.1		
MAX	659.8	659.9	659.7	659.5	659.6	659.7	660.0	660.1	660.0	659.8	659.6	659.4	659.3	659.1	658.7	658.3	658.1	658.2	658.3	658.5	659.1	659.4	659.6	659.6			



Number of Non-Zero Readings	740
Maximum 1-HR Average	660 MMHg
Maximum 24-HR Average	659 MMHg
Monthly Calibration	0
Standard Deviation	11.96
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	652.4 MMHg

Lagoon Relative Humidity (%) – July 2025

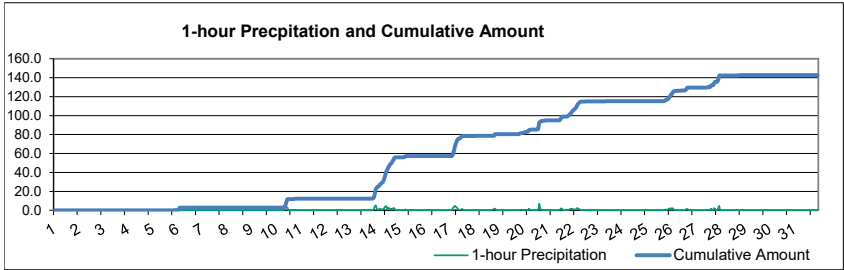
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	69.2	78.3	83.1	78.1	68.3	64.6	60.8	56.2	48.6	42.2	31.6	21.6	19.5	16.7	15.2	16.0	16.1	15.3	18.8	39.3	46.2	56.8	69.8	74.5	46.1	83.1
2	67.8	59.9	60.0	60.3	57.4	55.5	54.6	49.5	42.8	39.3	33.9	29.1	19.4	17.1	18.7	20.8	25.1	30.8	32.4	27.4	43.5	50.5	43.7	50.7	41.3	67.8
3	53.6	58.0	62.5	66.0	72.7	70.4	68.3	57.0	52.7	50.4	48.5	48.8	46.2	25.9	21.9	40.0	55.4	57.7	57.6	57.5	63.4	68.7	71.4	74.7	56.2	74.7
4	78.9	82.2	85.7	84.8	79.8	68.2	51.3	41.6	38.5	32.0	31.8	35.3	40.6	44.0	44.8	47.7	44.8	43.8	44.7	49.4	55.7	60.2	59.4	58.6	54.3	85.7
5	60.8	64.1	67.5	71.1	76.0	80.1	80.3	74.8	64.7	56.6	54.3	48.2	39.2	37.2	43.7	44.8	40.5	42.6	49.4	54.7	58.5	65.7	68.1	68.5	58.8	80.3
6	71.8	71.6	79.7	83.3	85.9	84.6	85.4	80.4	71.5	66.7	60.0	53.8	53.4	53.9	51.1	48.0	50.6	56.2	58.9	64.6	66.7	75.2	79.9	84.1	68.2	85.9
7	86.8	88.3	88.3	86.1	84.1	79.4	75.6	71.0	61.0	50.7	38.8	29.9	26.2	24.4	23.6	23.1	22.1	21.6	22.1	24.9	32.4	39.0	36.1	34.1	48.7	88.3
8	34.0	36.5	40.9	44.7	48.8	51.1	55.1	57.8	59.8	56.4	26.8	22.4	20.3	18.6	17.8	17.0	16.8	16.5	15.6	16.0	18.2	18.5	18.6	17.6	31.1	59.8
9	17.6	19.6	22.6	26.9	29.5	34.3	34.9	32.7	31.1	33.8	33.8	35.8	32.4	33.2	38.6	40.1	42.3	50.6	56.8	52.1	54.3	57.3	50.7	47.0	37.8	57.3
10	51.0	51.7	54.3	59.3	61.5	62.2	57.9	65.6	77.0	82.8	84.6	84.0	83.6	74.0	70.1	55.3	48.5	45.3	51.5	67.3	73.9	85.2	84.1	84.2	67.3	85.2
11	83.4	82.3	82.5	82.3	81.9	82.2	79.3	73.8	65.4	50.3	37.7	30.6	26.2	23.1	18.5	14.9	15.1	16.6	17.3	20.4	24.7	27.6	28.0	29.4	45.6	83.4
12	31.2	32.3	33.1	34.4	37.4	40.6	41.1	37.4	33.6	33.9	34.9	30.9	28.1	26.6	26.0	25.0	24.4	24.8	27.7	29.8	32.6	35.6	36.7	38.1	32.3	41.1
13	40.3	42.6	48.6	50.2	50.0	52.4	54.1	51.8	47.8	41.8	42.1	43.1	28.7	28.0	29.8	31.4	32.4	31.8	38.6	42.6	64.6	74.6	79.5	84.7	47.1	84.7
14	87.9	90.2	90.7	90.8	91.2	91.4	90.5	89.0	89.3	90.6	91.5	90.8	88.7	87.7	86.5	84.4	84.8	84.5	86.8	84.2	85.2	87.5	88.4	89.8	88.4	91.5
15	90.5	90.7	91.0	91.2	91.4	90.8	90.4	90.2	87.3	70.3	60.8	58.5	62.7	54.5	47.1	49.0	48.2	51.5	53.7	64.9	77.3	85.1	87.8	88.4	73.9	91.4
16	84.3	84.1	81.9	80.6	80.0	79.1	76.9	69.6	60.0	50.3	38.8	36.3	27.8	28.8	30.7	15.0	34.3	38.3	47.2	53.1	60.0	60.2	60.5	67.6	56.1	84.3
17	75.3	80.0	82.0	83.3	84.0	89.3	90.6	91.1	91.2	89.4	87.8	83.4	82.2	85.7	82.0	74.2	67.2	67.7	78.4	83.2	87.2	89.2	90.3	90.6	83.6	91.2
18	91.1	91.4	91.7	91.6	91.8	91.7	89.9	83.1	71.9	64.4	54.8	55.3	55.3	51.6	50.7	48.9	54.8	69.6	P	P	P	86.4	88.9	89.7	74.5	91.8
19	89.6	88.7	88.0	87.5	86.3	84.7	82.4	77.8	72.3	64.6	44.7	42.0	38.5	41.3	54.5	54.4	55.2	59.7	57.5	61.8	70.0	74.4	83.0	87.6	68.6	89.6
20	87.5	88.1	89.2	90.2	90.4	90.5	90.8	90.6	89.2	83.6	74.2	75.4	71.6	67.0	63.8	73.6	82.9	87.9	87.9	88.7	89.6	90.2	90.9	91.3	84.4	91.3
21	91.2	91.3	91.4	91.7	91.9	92.0	92.0	91.7	90.1	79.3	65.7	57.7	54.4	79.4	85.3	85.6	80.1	79.2	78.8	82.2	83.7	88.0	89.5	88.5	83.4	92.0
22	88.2	87.7	88.9	89.9	89.6	90.8	90.2	88.5	86.1	77.2	P	83.4	83.9	84.8	82.7	81.6	80.9	77.7	80.7	80.7	85.4	88.3	89.3	89.0	85.5	90.8
23	87.4	85.6	84.4	84.2	84.6	84.4	82.2	79.2	72.0	63.7	54.6	44.0	37.0	33.8	30.1	28.1	26.6	30.5	36.3	42.7	48.4	58.3	72.0	69.7	59.2	87.4
24	71.6	62.8	63.3	63.4	67.5	69.3	68.7	62.3	48.8	39.5	33.6	32.9	32.5	30.7	28.2	27.8	25.7	25.6	26.7	30.8	52.0	66.0	71.0	73.9	48.9	73.9
25	72.7	69.9	62.8	64.8	64.0	68.1	62.4	68.9	64.6	63.2	61.9	59.3	56.6	60.0	69.5	65.6	67.9	70.4	79.3	84.5	88.1	88.9	89.5	90.2	70.5	90.2
26	91.2	91.8	92.0	91.7	90.7	90.3	90.2	90.0	89.7	90.3	89.1	86.9	84.2	85.5	87.3	89.5	85.7	81.5	83.5	88.1	89.2	89.2	89.2	89.9	88.7	92.0
27	89.8	90.1	90.0	89.6	89.0	88.4	88.8	86.7	83.1	78.2	78.5	79.1	83.9	86.1	81.2	86.6	85.4	85.0	88.1	90.2	90.6	90.7	90.8	91.3	86.7	91.3
28	90.6	90.8	91.4	91.5	91.6	91.8	91.5	89.8	88.1	80.4	69.8	65.6	60.8	63.0	66.1	70.2	73.7	73.0	73.2	78.8	85.2	88.0	89.5	88.5	81.0	91.8
29	86.7	85.3	86.0	86.1	86.0	85.3	83.1	80.6	74.7	66.8	57.0	48.8	48.9	46.2	43.6	42.6	45.8	49.0	51.5	57.6	69.2	78.5	84.0	87.0	67.9	87.0
30	88.7	89.1	88.9	88.3	85.4	82.0	78.1	73.0	66.0	56.1	46.7	47.0	48.5	41.6	40.8	44.6	51.6	56.0	61.6	72.4	80.9	84.4	86.9	88.2	68.6	89.1
31	89.4	89.2	85.7	83.4	81.1	81.1	78.5	73.8	66.4	57.4	48.2	45.7	44.1	36.4	35.5	34.6	34.5	37.8	42.0	50.6	57.2	60.7	69.5	68.9	60.5	89.4
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31	740	99.5%
MEAN	74.2	74.6	75.7	76.4	76.4	76.3	74.7	71.8	67.3	61.3	53.9	51.9	49.3	47.9	47.9	47.7	49.1	51.1	53.4	57.9	64.4	70.0	72.2	73.4		
MAX	91.2	91.8	92.0	91.7	91.9	92.0	92.0	91.7	91.2	90.6	91.5	90.8	88.7	87.7	86.5	87.3	89.5	87.9	88.1	90.2	90.6	90.7	90.9	91.3		



Number of Non-Zero Readings	740		
Maximum 1-HR Average	92.0 %		
Maximum 24-HR Average	88.7 %		
Monthly Calibration	0	Operational Time	740 HRS
Standard Deviation	22.93	Operational Uptime	99.5 %
		Monthly Average	63.3 %

Lagoon Precipitation (mm) – July 2025

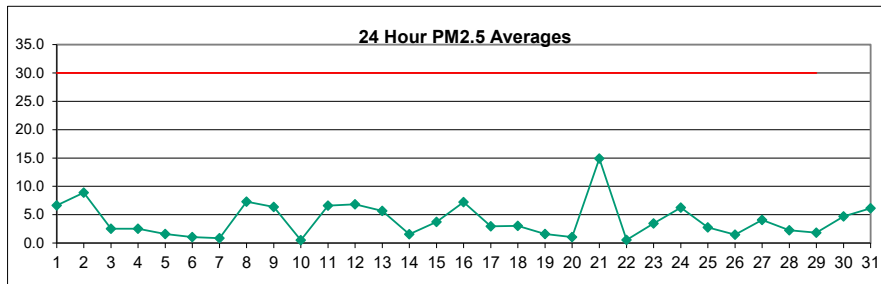
Day	HOUR																								DAILY MAX 24-HOUR TOTAL	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3
6	0.0	0.0	2.5	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	2.5	2.5
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	3.5	9.5
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
14	4.0	5.3	1.8	0.8	0.5	1.8	1.0	1.0	0.8	2.3	3.8	4.5	1.8	2.8	2.0	1.8	0.8	1.5	2.3	2.3	0.5	0.0	0.0	0.0	5.3	42.8
15	0.0	0.0	0.0	0.0	0.0	0.3	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	1.3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	2.3	3.5	4.8	3.5	2.8	1.3	0.5	0.3	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	21.3
18	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	P	P	P	1.8	0.0	0.0	0.0	1.8	2.0
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	0.5	0.5	0.0	0.0	0.5	1.0
20	0.3	0.3	0.5	0.3	0.0	0.3	1.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	7.0	0.8	0.8	0.3	0.0	0.0	0.5	0.0	7.0	13.5
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8	2.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5	1.5	1.0	2.0	7.8
22	1.8	1.0	1.0	1.0	1.3	2.5	1.5	1.3	0.5	0.3	P	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	2.5	12.3
23	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	0.3	0.3
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	0.3	1.0	0.3	0.5	1.8	0.8	1.8	4.5
26	2.5	0.5	2.3	0.8	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.3	1.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	9.8
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	0.5	0.0	0.0	1.8	0.3	0.0	2.3	1.5	0.0	0.0	1.8	4.8	4.8	12.8
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	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	30	30	30	31	31	31	740	99%
MEAN	0.3	0.2	0.3	0.1	0.1	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.1	0.2	0.1	0.2	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.2		
MAX	4.0	5.3	2.5	1.0	2.3	3.5	4.8	3.5	2.8	2.3	3.8	4.5	1.8	2.8	2.0	1.8	7.0	1.5	2.3	2.3	0.5	1.8	1.8	4.8		



Number of Non-Zero Readings	105		
Maximum 1-HR Average	42.8 MM		
Maximum 24-HR Average	7.0 MM		
Monthly Calibration	0	Operational Time	740 HRS
Standard Deviation	0.678	Operational Uptime	99.5 %
		Monthly Average	0.19 MM

Windridge PM_{2.5} (µg/m³) – July 2025

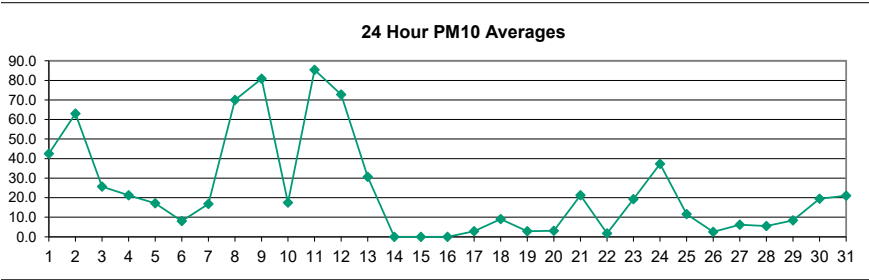
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	5.0	5.0	4.0	4.0	7.0	8.0	4.0	12.0	8.0	15.0	6.0	5.0	8.0	11.0	7.0	5.0	6.0	9.0	9.0	8.0	6.0	4.0	2.0	1.0	6.6	15.0
2	3.0	5.0	6.0	7.0	11.0	9.0	10.0	9.0	7.0	14.0	12.0	17.0	7.0	7.0	4.0	25.0	2.0	8.0	7.0	9.0	22.0	0.0	6.0	6.0	8.9	25.0
3	0.0	0.0	0.0	3.0	4.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	3.0	4.0	5.0	4.0	4.0	4.0	4.0	5.0	3.0	4.0	3.0	1.0	2.5	5.0
4	3.0	2.0	1.0	2.0	6.0	4.0	1.0	1.0	3.0	2.0	0.0	1.0	4.0	3.0	2.0	5.0	4.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	2.5	6.0
5	2.0	2.0	2.0	1.0	2.0	1.0	0.0	1.0	3.0	6.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	4.0	2.0	4.0	1.6	6.0
6	4.0	1.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	2.0	0.0	0.0	1.0	4.0
7	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	1.0	4.0	4.0	1.0	1.0	1.0	0.0	0.0	1.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.9	4.0
8	0.0	2.0	3.0	0.0	3.0	2.0	1.0	3.0	7.0	7.0	10.0	8.0	4.0	8.0	9.0	8.0	6.0	7.0	18.0	18.0	7.0	14.0	10.0	20.0	7.3	20.0
9	15.0	11.0	15.0	6.0	1.0	1.0	6.0	8.0	6.0	6.0	2.0	0.0	5.0	4.0	2.0	4.0	5.0	16.0	6.0	7.0	14.0	7.0	4.0	2.0	6.4	16.0
10	1.0	0.0	0.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.5	5.0
11	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	9.0	14.0	12.0	14.0	9.0	7.0	6.0	17.0	19.0	12.0	11.0	10.0	8.0	5.0	6.6	19.0
12	3.0	8.0	6.0	7.0	7.0	5.0	4.0	5.0	5.0	7.0	6.0	6.0	6.0	6.0	6.0	8.0	7.0	10.0	12.0	6.0	10.0	10.0	8.0	6.0	6.8	12.0
13	3.0	6.0	9.0	5.0	1.0	0.0	0.0	1.0	0.0	3.0	5.0	3.0	23.0	13.0	7.0	4.0	11.0	13.0	18.0	1.0	4.0	3.0	1.0	2.0	5.7	23.0
14	2.0	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	0.0	1.0	5.0	4.0	2.0	5.0	3.0	5.0	4.0	3.0	1.5	5.0
15	1.0	4.0	2.0	0.0	4.0	5.0	3.0	3.0	3.0	2.0	6.0	6.0	C	C	1.0	2.0	3.0	3.0	5.0	6.0	5.0	7.0	7.0	4.0	3.7	7.0
16	4.0	7.0	4.0	5.0	5.0	4.0	4.0	3.0	6.0	7.0	12.0	10.0	8.0	6.0	NRM	NRM	6.0	12.0	12.0	17.0	11.0	6.0	4.0	6.0	7.2	17.0
17	4.0	1.0	0.0	2.0	5.0	5.0	7.0	6.0	4.0	2.0	3.0	0.0	2.0	1.0	2.0	2.0	2.0	0.0	0.0	7.0	5.0	1.0	6.0	4.0	3.0	7.0
18	3.0	1.0	4.0	3.0	4.0	3.0	1.0	4.0	3.0	7.0	6.0	4.0	5.0	3.0	5.0	4.0	2.0	2.0	P	P	P	0.0	0.0	0.0	3.0	7.0
19	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	3.0	3.0	1.0	1.0	3.0	1.0	1.0	2.0	4.0	5.0	4.0	6.0	1.6	6.0
20	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	0.0	0.0	0.0	1.0	2.0	3.0	1.0	1.0	2.0	0.0	1.0	3.0
21	0.0	2.0	1.0	1.0	3.0	2.0	2.0	4.0	4.0	6.0	18.0	27.0	31.0	41.0	38.0	38.0	28.0	29.0	30.0	24.0	16.0	8.0	5.0	0.0	14.9	41.0
22	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0	2.0	1.0	0.0	3.0	2.0	0.0	0.0	0.5	3.0
23	2.0	1.0	3.0	1.0	0.0	0.0	3.0	4.0	4.0	2.0	0.0	0.0	5.0	10.0	11.0	7.0	6.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.5	11.0
24	1.0	1.0	4.0	3.0	3.0	3.0	2.0	4.0	14.0	10.0	10.0	14.0	11.0	8.0	8.0	8.0	9.0	10.0	9.0	5.0	5.0	3.0	2.0	3.0	6.3	14.0
25	3.0	3.0	4.0	5.0	5.0	3.0	5.0	4.0	2.0	2.0	7.0	6.0	4.0	3.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	2.0	2.0	1.0	2.8	7.0
26	2.0	3.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	3.0	6.0	4.0	2.0	6.0	1.5	6.0
27	4.0	1.0	3.0	3.0	2.0	4.0	4.0	6.0	5.0	3.0	3.0	4.0	5.0	5.0	4.0	4.0	5.0	5.0	6.0	7.0	4.0	3.0	4.0	4.0	4.1	7.0
28	1.0	0.0	2.0	3.0	5.0	3.0	3.0	1.0	1.0	1.0	0.0	0.0	1.0	2.0	2.0	3.0	5.0	3.0	2.0	5.0	6.0	5.0	0.0	0.0	2.3	6.0
29	1.0	4.0	3.0	0.0	3.0	2.0	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	0.0	2.0	0.0	0.0	5.0	5.0	1.0	2.0	1.8	5.0
30	5.0	4.0	3.0	4.0	4.0	5.0	2.0	7.0	5.0	2.0	5.0	7.0	7.0	4.0	4.0	5.0	8.0	5.0	1.0	4.0	6.0	7.0	6.0	3.0	4.7	8.0
31	5.0	5.0	6.0	9.0	5.0	5.0	6.0	6.0	10.0	9.0	10.0	7.0	6.0	6.0	5.0	4.0	6.0	7.0	4.0	4.0	5.0	5.0	5.0	7.0	6.1	10.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	30	30	30	31	31	31	737	99.3%
MEAN	2.5	2.5	3.0	2.7	3.1	2.5	2.3	3.2	3.4	4.0	4.6	4.7	5.8	5.7	4.5	5.1	4.6	5.7	5.9	5.7	5.8	4.3	3.4	3.3	7.5	
MAX	15.0	11.0	15.0	9.0	11.0	9.0	10.0	12.0	14.0	15.0	18.0	27.0	31.0	41.0	38.0	38.0	28.0	29.0	30.0	24.0	22.0	14.0	10.0	20.0	17.4	70.0



Number of 24HR Exceedences		0	Proposed Guideline
Number of Non-Zero Readings		580	
Maximum 1-HR Average		41.0 UG/M3	
Maximum 24-HR Average		14.9 UG/M3	
Monthly Calibration		2	Operational Time
Standard Deviation		4.9	Operational Uptime
			Monthly Average
			739 HRS
			99.3 %
			4.1 UG/M3

Windridge PM₁₀ (µg/m³) – July 2025

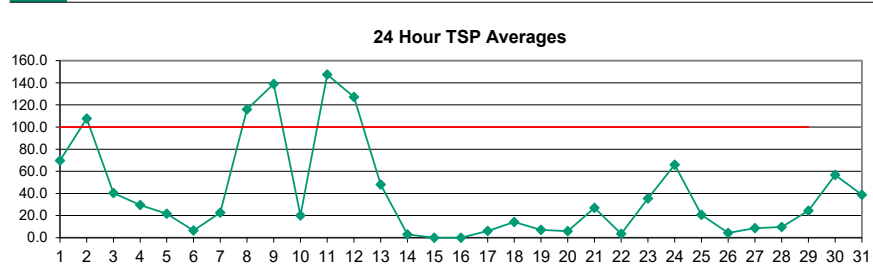
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	15.0	15.0	12.0	11.0	19.0	60.0	73.0	117.0	46.0	122.0	49.0	23.0	46.0	79.0	51.0	43.0	23.0	65.0	38.0	41.0	22.0	20.0	15.0	14.0	42.5	122.0
2	22.0	33.0	15.0	53.0	27.0	75.0	90.0	59.0	61.0	166.0	63.0	141.0	35.0	24.0	32.0	127.0	34.0	142.0	45.0	117.0	92.0	29.0	31.0	0.0	63.0	166.0
3	3.0	5.0	6.0	11.0	8.0	11.0	11.0	18.0	27.0	37.0	42.0	37.0	43.0	59.0	63.0	71.0	27.0	21.0	25.0	23.0	25.0	21.0	9.0	12.0	25.6	71.0
4	20.0	13.0	19.0	10.0	13.0	17.0	19.0	23.0	22.0	30.0	15.0	21.0	44.0	43.0	34.0	23.0	11.0	17.0	16.0	25.0	19.0	23.0	18.0	14.0	21.2	44.0
5	15.0	15.0	13.0	12.0	11.0	11.0	14.0	24.0	35.0	37.0	17.0	18.0	15.0	23.0	14.0	14.0	15.0	8.0	14.0	18.0	17.0	9.0	11.0	32.0	17.2	37.0
6	4.0	4.0	20.0	7.0	10.0	7.0	4.0	11.0	10.0	7.0	5.0	2.0	2.0	7.0	8.0	5.0	35.0	4.0	10.0	7.0	8.0	6.0	6.0	4.0	8.0	35.0
7	1.0	3.0	8.0	9.0	16.0	10.0	16.0	19.0	21.0	29.0	38.0	25.0	21.0	24.0	24.0	22.0	22.0	32.0	17.0	10.0	5.0	10.0	9.0	11.0	16.8	38.0
8	9.0	10.0	8.0	12.0	13.0	7.0	20.0	21.0	58.0	96.0	54.0	44.0	29.0	67.0	73.0	85.0	127.0	58.0	226.0	211.0	66.0	74.0	72.0	239.0	70.0	239.0
9	174.0	156.0	208.0	124.0	21.0	42.0	59.0	103.0	39.0	58.0	43.0	80.0	87.0	78.0	68.0	83.0	50.0	108.0	45.0	51.0	75.0	76.0	72.0	41.0	80.9	208.0
10	12.0	46.0	25.0	45.0	5.0	7.0	17.0	14.0	11.0	6.0	7.0	7.0	7.0	44.0	18.0	41.0	41.0	19.0	12.0	9.0	7.0	4.0	8.0	7.0	17.5	46.0
11	5.0	6.0	5.0	2.0	4.0	7.0	7.0	8.0	11.0	69.0	77.0	84.0	91.0	89.0	72.0	101.0	69.0	299.0	311.0	202.0	111.0	220.0	110.0	89.0	85.4	311.0
12	51.0	106.0	73.0	94.0	36.0	15.0	16.0	55.0	35.0	52.0	61.0	76.0	142.0	64.0	62.0	79.0	50.0	102.0	175.0	88.0	63.0	99.0	85.0	68.0	72.8	175.0
13	8.0	10.0	12.0	11.0	6.0	6.0	12.0	13.0	14.0	16.0	15.0	15.0	132.0	81.0	31.0	31.0	35.0	102.0	73.0	64.0	22.0	8.0	10.0	8.0	30.6	132.0
14	6.0	6.0	4.0	1.0	2.0	3.0	3.0	7.0	5.0	1.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NRM	NRM	X	X	X	X	X	X	X	X		
16	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	C	12.0	11.0	8.0	9.0	18.0	8.0	4.0	2.0		
17	2.0	0.0	2.0	7.0	6.0	10.0	6.0	2.0	3.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	5.0	6.0	4.0	3.0	4.0	6.0	2.9	10.0
18	6.0	6.0	7.0	23.0	14.0	11.0	8.0	10.0	6.0	12.0	20.0	13.0	10.0	10.0	6.0	7.0	11.0	9.0	P	P	P	0.0	0.0	1.0	9.0	23.0
19	1.0	0.0	0.0	2.0	0.0	0.0	4.0	4.0	2.0	2.0	7.0	9.0	7.0	6.0	3.0	2.0	1.0	2.0	1.0	5.0	5.0	3.0	2.0	1.0	2.9	9.0
20	1.0	0.0	4.0	5.0	6.0	4.0	2.0	13.0	8.0	4.0	5.0	3.0	1.0	2.0	1.0	0.0	0.0	0.0	3.0	2.0	2.0	4.0	3.0	1.0	3.1	13.0
21	0.0	7.0	7.0	12.0	7.0	9.0	11.0	13.0	29.0	28.0	33.0	36.0	31.0	44.0	44.0	39.0	31.0	32.0	33.0	26.0	18.0	11.0	7.0	1.0	21.2	44.0
22	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	5.0	4.0	3.0	7.0	5.0	3.0	5.0	1.7	7.0
23	4.0	3.0	4.0	3.0	1.0	1.0	0.0	0.0	2.0	3.0	12.0	38.0	47.0	77.0	62.0	56.0	32.0	45.0	37.0	13.0	7.0	6.0	4.0	4.0	19.2	77.0
24	7.0	6.0	6.0	7.0	7.0	4.0	7.0	20.0	76.0	88.0	81.0	83.0	71.0	72.0	90.0	76.0	39.0	40.0	75.0	14.0	7.0	4.0	5.0	11.0	37.3	90.0
25	15.0	29.0	20.0	6.0	6.0	17.0	18.0	10.0	22.0	8.0	25.0	22.0	12.0	19.0	7.0	10.0	9.0	8.0	5.0	2.0	0.0	1.0	6.0	2.0	11.6	29.0
26	0.0	4.0	3.0	1.0	0.0	2.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	3.0	2.0	3.0	1.0	0.0	2.0	0.0	9.0	7.0	3.0	11.0	2.5	11.0
27	8.0	6.0	6.0	7.0	8.0	8.0	10.0	5.0	5.0	5.0	3.0	7.0	6.0	6.0	11.0	7.0	4.0	4.0	6.0	4.0	8.0	6.0	4.0	5.0	6.2	11.0
28	3.0	1.0	1.0	1.0	1.0	7.0	4.0	1.0	1.0	1.0	9.0	6.0	7.0	11.0	18.0	7.0	8.0	5.0	4.0	4.0	6.0	10.0	8.0	8.0	5.5	18.0
29	5.0	4.0	4.0	6.0	6.0	5.0	6.0	12.0	11.0	12.0	8.0	23.0	12.0	11.0	12.0	7.0	8.0	5.0	2.0	7.0	9.0	9.0	6.0	10.0	8.3	23.0
30	19.0	14.0	9.0	11.0	10.0	14.0	15.0	22.0	11.0	31.0	25.0	22.0	30.0	23.0	22.0	41.0	40.0	7.0	8.0	19.0	23.0	24.0	20.0	8.0	19.5	41.0
31	13.0	14.0	14.0	18.0	16.0	27.0	16.0	23.0	20.0	44.0	32.0	35.0	25.0	16.0	20.0	23.0	13.0	25.0	15.0	11.0	15.0	27.0	26.0	17.0	21.0	44.0
NO.	29	29	29	29	29	29	29	29	29	29	28	28	28	28	28	28	29	29	28	28	28	29	29	29	687	92.9%
MEAN	14.8	18.0	17.8	17.6	9.6	13.7	16.3	21.8	20.4	33.3	26.7	31.2	34.1	35.1	30.3	35.8	25.9	40.5	43.4	35.4	23.9	25.1	19.3	21.8	42.0	
MAX	174.0	156.0	208.0	124.0	36.0	75.0	90.0	117.0	76.0	166.0	81.0	141.0	142.0	89.0	90.0	127.0	127.0	299.0	311.0	211.0	111.0	220.0	110.0	239.0	91.1	433.3



Number of Non-Zero Readings	648		
Maximum 1-HR Average	311.0 UG/M3		
Maximum 24-HR Average	85.4 UG/M3		
Monthly Calibration	4	Operational Time	691 HRS
Standard Deviation	37.57	Operational Uptime	92.9 %
		Monthly Average	25.4 UG/M3

Windridge TSP (µg/m³) – July 2025

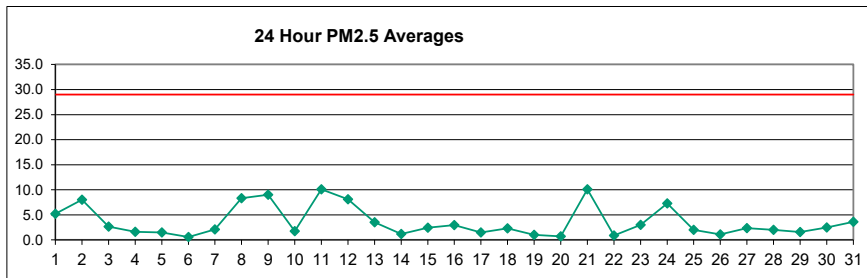
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	26.0	16.0	11.0	7.0	23.0	107.0	111.0	198.0	70.0	235.0	85.0	35.0	90.0	164.0	91.0	69.0	28.0	125.0	69.0	44.0	24.0	25.0	9.0	10.0	69.7	235.0
2	29.0	49.0	12.0	77.0	39.0	117.0	129.0	95.0	96.0	325.0	102.0	245.0	63.0	58.0	68.0	234.0	49.0	270.0	72.0	203.0	166.0	32.0	51.0	5.0	107.8	325.0
3	2.0	4.0	6.0	8.0	6.0	10.0	18.0	25.0	38.0	65.0	64.0	51.0	68.0	116.0	118.0	133.0	37.0	30.0	46.0	32.0	28.0	34.0	17.0	13.0	40.4	133.0
4	29.0	15.0	15.0	10.0	10.0	22.0	22.0	38.0	36.0	50.0	43.0	25.0	60.0	67.0	51.0	32.0	19.0	17.0	18.0	33.0	30.0	21.0	26.0	18.0	29.5	67.0
5	19.0	20.0	16.0	18.0	13.0	12.0	13.0	35.0	37.0	49.0	22.0	17.0	13.0	27.0	24.0	21.0	15.0	12.0	18.0	21.0	23.0	12.0	11.0	49.0	21.5	49.0
6	4.0	5.0	27.0	3.0	3.0	2.0	11.0	10.0	8.0	8.0	6.0	3.0	3.0	5.0	6.0	7.0	10.0	7.0	8.0	6.0	6.0	6.0	2.0	0.0	6.5	27.0
7	0.0	1.0	13.0	7.0	16.0	3.0	8.0	29.0	23.0	50.0	56.0	48.0	27.0	41.0	38.0	31.0	26.0	54.0	27.0	16.0	5.0	4.0	6.0	11.0	22.5	56.0
8	8.0	8.0	10.0	11.0	14.0	14.0	24.0	22.0	81.0	166.0	107.0	92.0	46.0	103.0	127.0	145.0	96.0	96.0	355.0	419.0	137.0	129.0	130.0	445.0	116.0	445.0
9	324.0	283.0	371.0	240.0	37.0	73.0	96.0	195.0	57.0	93.0	81.0	166.0	152.0	145.0	113.0	142.0	75.0	157.0	43.0	54.0	95.0	130.0	134.0	80.0	139.0	371.0
10	19.0	82.0	43.0	90.0	0.0	13.0	24.0	20.0	5.0	3.0	5.0	5.0	2.0	11.0	10.0	36.0	41.0	30.0	8.0	7.0	7.0	5.0	6.0	6.0	19.9	90.0
11	3.0	2.0	4.0	4.0	4.0	4.0	7.0	9.0	13.0	115.0	112.0	141.0	136.0	152.0	126.0	194.0	139.0	535.0	569.0	379.0	181.0	359.0	197.0	154.0	147.5	569.0
12	78.0	185.0	133.0	173.0	61.0	24.0	21.0	86.0	52.0	89.0	94.0	124.0	219.0	105.0	99.0	125.0	85.0	190.0	328.0	176.0	109.0	185.0	169.0	143.0	127.2	328.0
13	11.0	9.0	13.0	13.0	6.0	2.0	6.0	10.0	23.0	14.0	15.0	17.0	240.0	140.0	61.0	46.0	46.0	182.0	119.0	126.0	26.0	13.0	7.0	5.0	47.9	240.0
14	8.0	4.0	0.0	0.0	2.0	2.0	0.0	0.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.0	5.0	8.0	8.0	8.0	6.0	4.0	3.0	8.0
15	X	X	X	X	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	179.0	175.0	11.0	15.0	27.0	98.0	X	X		
16	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	C	65.0	18.0	26.0	23.0	30.0	23.0	7.0	17.0		
17	4.0	6.0	7.0	5.0	5.0	5.0	6.0	7.0	4.0	1.0	0.0	0.0	5.0	6.0	5.0	6.0	4.0	11.0	12.0	19.0	4.0	9.0	8.0	4.0	6.0	19.0
18	6.0	13.0	15.0	32.0	14.0	10.0	10.0	16.0	8.0	18.0	27.0	11.0	NRM	33.0	11.0	15.0	8.0	17.0	P	P	P	6.0	4.0	6.0	14.0	33.0
19	5.0	1.0	2.0	5.0	5.0	2.0	1.0	4.0	4.0	6.0	21.0	17.0	14.0	16.0	5.0	5.0	3.0	9.0	7.0	4.0	11.0	11.0	6.0	4.0	7.0	21.0
20	3.0	0.0	0.0	10.0	7.0	6.0	4.0	20.0	8.0	7.0	10.0	6.0	7.0	6.0	4.0	4.0	3.0	5.0	12.0	6.0	0.0	1.0	6.0	4.0	5.8	20.0
21	7.0	6.0	6.0	12.0	9.0	13.0	11.0	19.0	46.0	51.0	51.0	43.0	43.0	53.0	50.0	48.0	31.0	37.0	38.0	27.0	18.0	14.0	9.0	6.0	27.0	53.0
22	3.0	0.0	0.0	0.0	3.0	2.0	4.0	4.0	2.0	2.0	2.0	4.0	5.0	5.0	6.0	6.0	5.0	6.0	4.0	4.0	5.0	3.0	4.0	3.0	3.4	6.0
23	4.0	9.0	6.0	5.0	5.0	5.0	9.0	6.0	6.0	7.0	26.0	66.0	74.0	139.0	117.0	106.0	63.0	80.0	56.0	25.0	11.0	15.0	3.0	4.0	35.3	139.0
24	7.0	7.0	7.0	9.0	7.0	6.0	11.0	28.0	133.0	170.0	136.0	145.0	119.0	122.0	168.0	124.0	72.0	70.0	153.0	34.0	13.0	12.0	11.0	20.0	66.0	4.0
25	29.0	53.0	24.0	13.0	13.0	29.0	31.0	16.0	37.0	27.0	44.0	36.0	19.0	32.0	17.0	25.0	14.0	9.0	7.0	4.0	4.0	4.0	3.0	4.0	20.6	53.0
26	3.0	3.0	8.0	2.0	0.0	1.0	2.0	3.0	3.0	5.0	5.0	5.0	7.0	5.0	2.0	2.0	0.0	0.0	0.0	6.0	13.0	12.0	8.0	7.0	4.3	13.0
27	6.0	8.0	6.0	10.0	9.0	12.0	16.0	7.0	5.0	8.0	7.0	8.0	10.0	9.0	7.0	7.0	7.0	11.0	9.0	10.0	11.0	8.0	6.0	8.0	8.5	16.0
28	5.0	2.0	2.0	3.0	10.0	7.0	6.0	4.0	4.0	3.0	16.0	8.0	18.0	26.0	39.0	6.0	6.0	8.0	6.0	12.0	11.0	9.0	8.0	10.0	9.5	39.0
29	10.0	7.0	7.0	5.0	9.0	13.0	12.0	10.0	16.0	19.0	15.0	39.0	21.0	20.0	27.0	17.0	78.0	111.0	66.0	15.0	28.0	12.0	10.0	15.0	24.3	111.0
30	26.0	14.0	10.0	28.0	12.0	73.0	497.0	41.0	36.0	68.0	53.0	47.0	47.0	41.0	51.0	91.0	69.0	15.0	16.0	27.0	30.0	37.0	18.0	14.0	56.7	497.0
31	15.0	20.0	14.0	17.0	19.0	30.0	23.0	31.0	29.0	81.0	71.0	56.0	38.0	39.0	31.0	212.0	23.0	20.0	16.0	23.0	22.0	34.0	37.0	29.0	38.8	212.0
NO.	29	29	29	29	29	29	29	29	29	29	29	29	28	29	29	29	31	31	30	30	30	31	30	30	706	95.4%
MEAN	23.9	28.7	27.2	28.2	12.4	21.3	39.1	34.1	30.5	59.9	44.0	50.3	55.2	58.1	50.8	65.1	41.9	74.6	70.8	59.3	36.1	41.0	30.6	36.6		
MAX	324.0	283.0	371.0	240.0	61.0	117.0	497.0	198.0	133.0	325.0	136.0	245.0	240.0	164.0	168.0	234.0	179.0	535.0	569.0	419.0	181.0	359.0	197.0	445.0		



Number of 24HR Exceedences	5	Proposed Guideline
Number of Non-Zero Readings	681	
Maximum 1-HR Average	569.0 UG/M3	
Maximum 24-HR Average	147.5 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	69.8	Monthly Average
		710 HRS
		95.4 %
		42.6 UG/M3

Berm PM_{2.5} (µg/m³) – July 2025

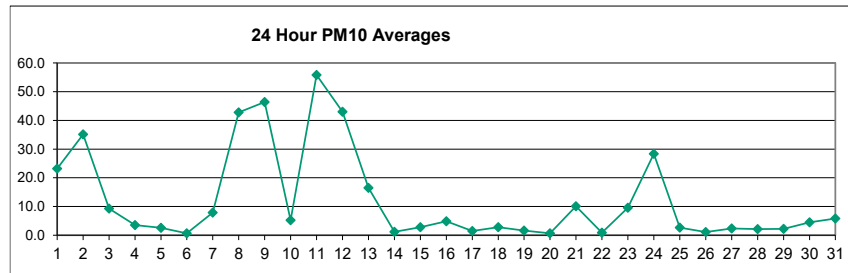
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.2	1.1	1.4	1.7	2.0	5.0	5.9	9.6	3.8	15.2	6.2	9.7	9.7	11.7	9.1	5.2	3.4	8.2	6.4	2.3	2.0	1.5	1.1	1.4	5.2	15.2
2	2.9	3.5	1.8	4.2	6.8	4.6	8.9	7.0	9.2	17.5	11.1	15.7	7.2	11.5	4.2	13.0	2.7	21.8	5.6	18.3	10.4	2.1	2.0	0.5	8.0	21.8
3	0.6	1.0	0.9	2.0	0.9	1.7	1.4	1.5	1.5	2.0	3.2	2.5	3.4	9.3	10.9	7.5	1.9	1.5	1.9	1.8	1.5	1.3	1.6	1.7	2.6	10.9
4	2.4	1.1	0.9	0.9	1.0	0.7	1.2	2.0	3.3	2.1	1.4	1.8	2.4	2.3	1.8	1.7	1.2	1.1	1.2	1.6	1.5	1.6	1.8	1.5	1.6	3.3
5	1.7	1.0	2.1	2.4	1.0	0.9	0.8	1.9	2.5	2.7	2.1	1.2	1.0	0.9	0.9	1.1	1.1	1.0	1.5	1.4	1.6	1.1	1.6	1.8	1.5	2.7
6	0.5	0.8	0.9	0.6	0.6	0.6	0.6	1.0	1.1	0.8	0.5	0.4	0.4	0.6	0.5	0.4	0.8	0.8	0.3	0.4	0.5	0.3	0.6	0.3	0.6	1.1
7	0.3	0.8	1.8	0.8	0.9	0.7	1.5	2.3	2.2	3.7	4.6	4.7	2.2	3.2	3.0	5.9	3.3	2.7	2.9	0.4	0.5	0.5	0.6	0.8	2.1	5.9
8	0.9	1.0	1.2	1.2	1.6	1.5	2.6	2.8	4.3	9.8	13.4	10.0	8.9	13.6	12.9	13.0	8.2	10.2	20.8	19.7	6.6	5.0	6.8	24.1	8.3	24.1
9	15.0	14.9	12.7	10.1	1.8	5.3	6.0	11.7	4.0	6.8	5.1	10.0	13.3	13.2	11.2	13.7	12.3	9.0	8.6	5.8	4.8	5.9	9.0	6.4	9.0	15.0
10	4.5	5.1	2.9	11.1	0.6	0.8	1.0	1.2	0.6	0.7	0.7	0.4	0.3	1.3	1.4	1.7	2.6	1.5	0.9	1.3	0.3	0.3	0.5	0.4	1.8	11.1
11	0.6	0.5	0.5	0.4	0.4	0.5	0.7	1.3	1.8	6.6	7.8	11.5	9.6	17.5	14.3	13.0	8.5	34.2	35.7	18.8	11.6	20.0	14.2	12.4	10.1	35.7
12	4.0	10.1	10.4	11.2	2.4	1.0	1.0	5.9	3.7	5.2	6.7	9.7	14.3	8.4	7.2	5.7	4.7	14.9	23.8	13.8	7.3	12.5	5.2	5.0	8.1	23.8
13	0.8	1.1	1.2	1.0	0.4	0.4	0.5	1.1	2.0	1.4	1.7	2.1	11.7	6.2	9.4	8.2	2.9	11.5	9.9	5.9	1.8	1.0	1.2	0.7	3.5	11.7
14	0.4	0.9	1.3	1.1	3.0	0.7	0.1	0.7	0.1	0.2	0.2	0.5	0.1	0.2	0.2	0.2	1.7	1.7	2.1	2.5	2.6	3.0	2.3	2.0	1.2	3.0
15	2.0	1.6	1.6	1.7	2.3	2.3	2.7	1.6	2.8	3.7	4.4	3.7	3.6	3.0	2.4	1.8	2.6	2.1	2.0	3.1	1.9	1.7	1.7	1.7	2.4	4.4
16	2.2	2.4	2.6	2.3	2.1	2.9	2.0	3.0	2.8	2.9	4.7	5.4	4.6	1.6	2.0	2.9	3.1	2.2	2.7	3.1	4.5	5.0	1.6	2.3	3.0	5.4
17	1.4	1.4	1.8	2.1	2.0	2.2	2.6	2.8	2.3	0.5	0.4	0.4	0.8	1.6	1.1	1.2	1.0	1.1	1.2	1.4	1.5	1.5	2.0	1.8	1.5	2.8
18	2.0	2.4	2.4	3.4	3.4	2.5	2.3	3.0	3.0	3.1	3.3	3.3	2.2	2.4	1.7	2.0	2.3	2.1	3.9	1.1	0.8	0.8	0.9	1.0	2.3	3.9
19	1.0	0.8	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	1.7	3.3	2.0	1.1	1.0	0.8	0.8	0.7	0.6	0.9	1.6	0.8	0.6	0.9	1.0	3.3
20	0.3	0.3	0.3	0.5	0.5	0.6	0.4	1.0	0.8	0.7	0.6	0.4	0.6	0.8	1.1	0.6	0.5	0.7	0.8	0.7	0.9	0.7	1.2	1.6	0.7	1.6
21	2.7	3.7	4.1	3.9	3.8	3.7	5.7	5.9	5.1	7.2	13.5	16.1	17.7	22.4	21.8	19.9	16.2	15.8	16.7	13.9	9.8	7.4	5.0	0.6	10.1	22.4
22	0.1	0.1	0.2	1.0	1.7	1.6	0.6	0.4	0.2	0.2	0.5	0.6	0.6	0.5	0.7	1.1	1.5	1.6	1.6	1.7	1.5	1.1	1.0	1.2	0.9	1.7
23	1.2	1.3	1.1	0.8	0.8	0.8	1.1	1.1	2.0	1.3	2.9	5.4	6.4	9.6	7.4	7.6	4.8	3.8	2.8	2.5	1.8	1.7	1.7	1.7	3.0	9.6
24	1.8	2.0	3.0	2.9	3.0	2.7	3.2	6.2	12.2	12.9	12.3	12.7	6.2	19.5	26.0	11.1	14.5	6.3	6.1	2.2	2.3	1.6	1.7	2.6	7.3	26.0
25	1.9	4.4	3.8	2.4	3.9	2.7	3.1	2.4	2.3	2.3	2.8	2.6	1.7	2.3	1.5	1.3	1.2	0.6	0.6	0.8	0.7	0.8	1.1	1.3	2.0	4.4
26	1.9	1.6	1.7	1.2	0.8	0.9	0.9	0.7	0.9	1.0	0.8	0.8	1.1	0.5	0.6	1.0	0.5	0.7	0.6	0.9	0.8	1.0	1.9	3.0	1.1	3.0
27	1.5	1.5	1.7	1.9	2.0	2.5	2.7	1.8	1.6	1.7	1.8	2.0	2.0	2.1	2.1	2.6	2.6	2.4	3.1	3.1	3.7	3.3	3.6	2.7	2.3	3.7
28	0.5	1.3	2.1	2.2	2.7	3.2	2.0	2.2	2.5	1.1	1.5	0.9	1.6	1.9	2.0	3.1	3.2	2.3	1.4	2.1	2.6	2.4	1.8	1.6	2.0	3.2
29	1.8	1.7	1.4	1.3	2.4	1.6	1.3	1.5	2.5	2.5	2.3	2.0	1.8	1.6	1.4	1.2	1.1	1.1	0.8	1.1	1.2	1.5	1.1	1.1	1.6	2.5
30	1.8	1.1	1.1	1.8	1.6	2.7	2.4	5.5	2.9	3.8	3.5	2.7	2.5	1.9	2.0	2.1	2.9	1.5	2.2	3.5	3.0	2.4	2.4	2.2	2.5	5.5
31	2.2	3.4	2.8	2.8	4.0	4.1	3.7	5.5	4.2	6.2	5.1	4.6	3.5	2.7	2.5	2.4	2.0	2.0	2.0	2.5	3.7	4.9	5.2	4.9	3.6	6.2
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	2.0	2.4	2.3	2.6	2.0	2.0	2.3	3.1	2.9	4.1	4.1	4.7	4.6	5.7	5.3	4.9	3.7	5.4	5.5	4.5	3.1	3.1	2.7	2.9		
MAX	15.0	14.9	12.7	11.2	6.8	5.3	8.9	11.7	12.2	17.5	13.5	16.1	17.7	22.4	26.0	19.9	16.2	34.2	35.7	19.7	11.6	20.0	14.2	24.1		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	35.7 UG/M3	
Maximum 24-HR Average	10.1 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	4.5	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		3.6 UG/M3

Berm PM₁₀ (µg/m³) – July 2025

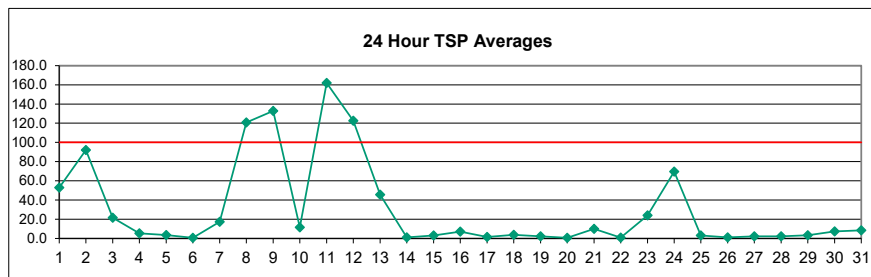
DAY	HOUR																								MEAN	MAX
1	1.7	1.2	1.8	2.1	3.2	18.1	24.8	48.9	12.0	87.2	27.2	46.0	54.0	58.0	46.8	23.4	13.8	43.6	28.3	6.6	3.7	2.1	1.1	1.7	23.2	87.2
2	4.6	8.3	1.8	9.7	13.2	8.8	30.9	20.1	39.1	86.1	42.6	60.7	31.5	55.5	18.0	70.2	9.6	134.3	23.9	103.5	57.0	4.9	8.5	0.5	35.1	134.3
3	0.6	1.2	1.0	7.1	0.9	1.9	1.5	2.3	3.4	4.8	9.2	6.2	9.8	48.9	59.7	41.8	4.6	2.7	3.6	3.1	2.8	2.3	2.2	1.7	9.3	59.7
4	2.4	1.1	0.9	0.9	1.0	0.7	3.4	7.1	13.2	6.0	2.8	3.8	6.1	6.6	4.5	3.4	2.4	2.1	2.3	3.5	2.4	2.8	3.3	2.4	3.5	13.2
5	2.6	1.0	2.3	2.4	1.0	0.9	0.8	4.5	5.3	6.2	2.8	1.7	1.4	2.0	1.3	1.5	1.9	1.3	3.4	3.1	4.4	2.0	3.3	5.0	2.6	6.2
6	0.5	0.9	0.9	0.6	0.6	0.6	0.6	1.0	1.1	0.8	0.5	0.4	0.4	0.6	0.6	0.4	1.2	0.9	0.3	0.4	0.5	0.3	0.9	0.3	0.6	1.2
7	0.3	0.8	1.8	0.8	0.9	0.7	2.6	6.1	5.9	16.1	18.3	20.4	8.9	15.7	13.8	29.5	17.1	13.7	13.2	0.5	0.7	0.5	0.6	0.8	7.9	29.5
8	1.0	1.2	1.6	1.5	2.6	2.0	5.5	5.9	12.3	38.7	67.0	56.0	40.4	63.1	61.6	68.5	39.0	50.5	133.8	134.7	37.4	22.4	34.6	145.6	42.8	145.6
9	79.8	91.5	79.2	55.0	7.0	29.1	29.2	66.7	16.2	31.5	26.2	53.6	65.7	65.2	54.1	70.2	57.7	42.4	31.8	25.4	19.2	31.4	54.3	32.0	46.4	91.5
10	13.4	23.6	9.7	36.3	0.6	1.4	2.1	1.7	0.6	0.7	0.7	0.4	0.3	1.3	3.9	7.0	9.3	5.7	1.9	3.1	0.3	0.3	0.5	0.4	5.2	36.3
11	0.6	0.5	0.5	0.4	0.4	0.5	0.7	2.0	5.6	36.4	37.2	50.7	44.5	79.1	74.4	82.7	47.9	207.5	225.1	106.0	64.0	126.1	81.4	64.9	55.8	225.1
12	14.1	53.6	53.0	61.7	7.9	1.5	1.6	26.6	13.6	19.7	28.6	43.4	83.1	42.7	40.4	33.2	21.2	93.3	152.6	76.8	38.7	75.2	26.2	23.8	43.0	152.6
13	1.2	1.9	2.1	1.5	0.4	0.4	0.5	2.1	3.3	1.4	2.7	6.3	71.9	36.8	49.5	39.4	10.1	66.3	54.3	35.7	5.3	1.2	1.2	0.7	16.5	71.9
14	0.4	0.9	1.3	1.1	3.0	0.7	0.1	0.7	0.1	0.2	0.2	0.5	0.1	0.2	0.2	0.2	1.7	1.7	2.1	2.5	2.6	3.0	2.3	2.0	1.2	3.0
15	2.0	1.6	1.6	1.7	2.3	2.3	2.7	1.6	3.4	3.7	7.4	7.4	3.7	3.0	2.7	1.8	2.8	2.1	2.0	3.2	1.9	1.7	1.7	1.7	2.8	7.4
16	2.2	2.4	2.6	2.3	2.1	2.9	2.0	3.0	3.5	5.8	19.5	19.3	15.4	2.3	2.7	3.0	3.6	2.2	2.7	3.1	4.5	6.1	1.6	2.3	4.9	19.5
17	1.4	1.4	1.8	2.1	2.0	2.2	2.6	2.8	2.3	0.5	0.4	0.4	0.8	1.6	1.1	1.2	1.0	1.1	1.2	1.4	1.5	1.5	2.0	1.8	1.5	2.8
18	2.0	2.4	2.4	3.4	3.4	2.5	2.3	3.0	4.2	4.4	3.8	4.2	2.2	2.4	1.7	2.0	2.3	2.1	12.0	1.1	0.8	0.8	0.9	1.0	2.8	12.0
19	1.0	0.8	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	4.6	9.2	5.3	1.7	1.2	0.8	0.8	0.7	0.6	0.9	1.8	0.8	0.6	0.9	1.6	9.2
20	0.3	0.3	0.3	0.5	0.5	0.6	0.4	1.0	0.8	0.7	0.6	0.4	0.6	0.8	1.1	0.6	0.5	0.7	0.8	0.7	0.9	0.7	1.2	1.6	0.7	1.6
21	2.7	3.7	4.1	3.9	3.8	3.7	5.7	5.9	5.1	7.2	13.5	16.1	17.7	22.4	21.8	19.9	16.2	15.8	16.7	13.9	9.8	7.4	5.0	0.6	10.1	22.4
22	0.1	0.1	0.2	1.0	1.7	1.6	0.6	0.4	0.2	0.2	0.5	0.6	0.6	0.5	0.7	1.1	1.5	1.6	1.6	1.7	1.5	1.1	1.0	1.2	0.9	1.7
23	1.2	1.3	1.1	0.8	0.8	0.8	1.1	1.1	5.9	3.0	9.3	22.8	23.9	44.7	31.0	31.9	18.7	13.2	5.6	4.4	1.8	1.7	1.7	1.7	9.6	44.7
24	1.8	2.0	3.7	3.8	3.7	2.7	4.2	23.0	53.3	62.0	61.1	62.5	21.1	101.1	107.0	51.4	58.3	21.6	23.7	3.5	2.7	1.6	1.7	2.9	28.4	107.0
25	1.9	6.0	4.6	2.4	3.9	2.7	3.1	3.0	3.9	4.5	4.9	4.6	1.7	4.6	1.9	1.8	1.7	0.6	0.6	0.8	0.7	0.8	1.1	1.3	2.6	6.0
26	1.9	1.6	1.7	1.2	0.8	0.9	0.9	0.7	0.9	1.0	0.8	0.8	1.1	0.5	0.6	1.0	0.5	0.7	0.6	0.9	0.8	1.0	1.9	3.0	1.1	3.0
27	1.5	1.5	1.7	1.9	2.0	2.5	2.7	1.8	1.6	1.7	1.8	2.0	2.0	2.1	2.1	2.6	2.6	2.4	3.1	3.1	3.7	3.3	3.6	2.7	2.3	3.7
28	0.5	1.3	2.1	2.2	2.7	3.2	2.0	2.2	2.5	1.1	2.0	0.9	2.4	2.9	2.5	3.1	3.2	2.3	1.4	2.1	2.6	2.4	1.8	1.6	2.1	3.2
29	1.8	1.7	1.4	1.3	2.5	1.6	1.3	1.5	6.3	5.4	5.3	3.8	2.9	2.4	2.1	1.7	1.4	1.3	0.8	1.1	1.2	1.7	1.1	1.1	2.2	6.3
30	1.8	1.1	1.1	1.8	1.6	2.7	2.4	22.4	5.0	11.5	10.8	5.7	4.4	3.7	3.7	4.1	6.0	1.5	2.2	4.3	3.0	2.4	2.4	2.2	4.5	22.4
31	2.2	3.4	2.8	2.8	4.0	4.1	3.7	14.7	7.9	18.5	13.7	9.7	6.2	4.8	4.2	3.8	2.8	2.3	2.0	2.5	4.7	7.4	6.1	4.9	5.8	18.5
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	4.8	7.1	6.2	6.9	2.6	3.4	4.6	9.2	7.7	15.1	13.7	16.8	17.1	21.8	19.9	19.5	11.7	23.8	24.3	17.9	9.1	10.2	8.3	10.1		
MAX	79.8	91.5	79.2	61.7	13.2	29.1	30.9	66.7	53.3	87.2	67.0	62.5	83.1	101.1	107.0	82.7	58.3	207.5	225.1	134.7	64.0	126.1	81.4	145.6		



Number of Non-Zero Readings	744
Maximum 1-HR Average	225.1 UG/M3
Maximum 24-HR Average	55.8 UG/M3
Monthly Calibration	0
Standard Deviation	24.71
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	12.2 UG/M3

Berm TSP (µg/m³) – July 2025

DAY	HOUR																								MEAN	MAX
1	3.2	1.8	1.8	2.1	7.0	39.8	61.5	136.0	20.9	210.9	54.9	70.3	114.2	133.2	112.1	50.6	30.1	124.7	63.6	18.8	4.4	3.0	1.1	2.6	52.9	210.9
2	6.7	13.8	1.8	20.8	20.1	11.4	63.1	38.4	84.8	193.4	76.8	118.7	70.3	148.2	56.1	194.7	19.9	449.7	67.9	329.6	189.0	6.0	26.1	0.5	92.0	449.7
3	0.6	1.3	1.0	14.6	0.9	2.2	1.5	2.4	4.1	8.6	15.8	9.3	17.1	126.4	165.4	109.0	9.4	4.4	6.8	5.0	4.9	2.9	2.5	1.7	21.6	165.4
4	2.4	1.1	0.9	0.9	1.0	0.7	5.8	14.2	19.4	9.5	3.9	4.4	9.7	10.8	6.9	5.6	3.0	2.5	4.3	5.8	3.3	3.6	4.0	2.8	5.3	19.4
5	2.9	1.0	2.3	2.4	1.0	0.9	0.8	4.5	5.5	8.3	2.8	1.7	1.4	3.5	4.1	1.5	2.3	1.3	7.3	4.2	9.8	4.2	3.8	10.6	3.7	10.6
6	0.5	0.9	0.9	0.6	0.6	0.6	0.6	1.0	1.1	0.8	0.5	0.4	0.4	0.6	0.6	0.4	1.2	0.9	0.3	0.4	0.5	0.3	2.7	0.3	0.7	2.7
7	0.3	0.8	1.8	0.8	0.9	0.7	3.4	12.1	10.2	39.0	31.1	44.7	25.1	35.5	31.9	64.9	52.4	30.7	24.6	0.8	2.3	0.5	0.6	0.8	17.3	64.9
8	1.0	1.2	1.6	1.5	9.6	2.7	10.7	9.0	20.2	56.1	167.0	146.6	98.6	136.9	160.7	185.4	108.3	143.5	446.3	451.0	135.9	74.2	85.9	446.9	120.9	451.0
9	287.6	326.5	298.3	182.7	17.5	68.0	61.6	147.0	32.0	80.1	71.5	148.7	169.2	170.6	139.3	191.5	140.5	117.2	86.3	61.3	45.9	92.7	166.5	86.9	132.9	326.5
10	27.8	66.0	23.4	80.3	0.6	1.6	2.4	4.1	0.6	0.7	0.7	0.4	0.3	1.3	10.7	13.4	19.4	12.9	2.1	6.2	0.3	0.3	0.5	0.4	11.5	80.3
11	0.6	0.5	0.5	0.4	0.4	0.5	0.7	2.7	16.5	122.7	93.9	131.0	88.3	178.1	172.9	253.4	157.0	622.9	673.4	329.8	197.5	422.3	226.0	193.3	161.9	673.4
12	36.7	147.7	165.8	177.4	17.4	1.5	1.6	55.6	28.5	41.5	57.0	99.7	258.9	139.9	143.4	120.2	68.8	265.3	457.1	193.7	105.3	228.3	70.3	61.9	122.7	457.1
13	1.4	3.7	2.9	1.5	0.4	0.4	0.5	2.5	5.6	1.4	3.2	12.8	223.3	120.6	132.4	94.5	22.7	187.8	159.2	103.9	12.2	1.5	1.2	0.7	45.7	223.3
14	0.4	0.9	1.3	1.1	3.0	0.7	0.1	0.7	0.1	0.2	0.2	0.5	0.1	0.2	0.2	0.2	1.7	1.7	2.1	2.5	2.6	3.0	2.3	2.0	1.2	3.0
15	2.0	1.6	1.6	1.7	2.3	2.3	2.7	1.6	3.4	3.7	9.1	12.4	3.7	3.0	2.7	1.8	3.7	2.1	2.0	3.8	1.9	1.7	1.7	1.7	3.1	12.4
16	2.2	2.4	2.6	2.3	2.1	2.9	2.0	3.0	4.4	11.0	47.5	29.6	25.5	3.3	3.0	3.0	4.2	2.2	2.7	3.1	4.5	6.6	1.6	2.3	7.3	47.5
17	1.4	1.4	1.8	2.1	2.0	2.2	2.6	2.8	2.3	0.5	0.4	0.4	0.8	1.6	1.1	1.2	1.0	1.1	1.2	1.4	1.5	1.5	2.0	1.8	1.5	2.8
18	2.0	2.4	2.4	3.4	3.4	2.5	2.3	3.0	5.6	5.7	3.8	4.2	2.2	2.4	1.7	2.0	2.3	2.1	33.9	1.1	0.8	0.8	0.9	1.0	3.8	33.9
19	1.0	0.8	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	8.3	16.6	8.0	1.7	3.6	0.8	0.8	0.7	0.6	0.9	2.0	0.8	0.6	0.9	2.3	16.6
20	0.3	0.3	0.3	0.5	0.5	0.6	0.4	1.0	0.8	0.7	0.6	0.4	0.6	0.8	1.1	0.6	0.5	0.7	0.8	0.7	0.9	0.7	1.2	1.6	0.7	1.6
21	2.7	3.7	4.1	3.9	3.8	3.7	5.7	5.9	5.1	7.2	13.5	16.1	17.7	22.4	21.8	19.9	16.2	15.8	16.7	13.9	9.8	7.4	5.0	0.6	10.1	22.4
22	0.1	0.1	0.2	1.0	1.7	1.6	0.6	0.4	0.2	0.2	0.5	0.6	0.6	0.5	0.7	1.1	1.5	1.6	1.6	1.7	1.5	1.1	1.0	1.2	0.9	1.7
23	1.2	1.3	1.1	0.8	0.8	0.8	1.1	1.1	17.3	7.0	22.1	54.8	52.8	122.1	73.8	91.3	63.2	37.3	12.6	6.0	1.8	1.7	1.7	1.7	24.0	122.1
24	1.8	2.0	6.3	4.4	4.0	2.7	4.2	47.5	130.6	169.1	166.0	176.0	51.2	265.0	277.7	119.2	120.5	53.0	55.6	3.6	3.7	1.6	1.7	2.9	69.6	277.7
25	1.9	6.0	4.8	2.4	3.9	2.7	3.1	3.2	5.9	6.4	8.2	7.1	1.7	5.6	1.9	2.1	1.7	0.6	0.6	0.8	0.7	0.8	1.1	1.3	3.1	8.2
26	1.9	1.6	1.7	1.2	0.8	0.9	0.9	0.7	0.9	1.0	0.8	0.8	1.1	0.5	0.6	1.0	0.5	0.7	0.6	0.9	0.8	1.0	1.9	3.0	1.1	3.0
27	1.5	1.5	1.7	1.9	2.0	2.5	2.7	1.8	1.6	1.7	1.8	2.0	2.0	2.1	2.1	2.6	2.6	2.4	3.1	3.1	3.7	3.3	3.6	2.7	2.3	3.7
28	0.5	1.3	2.1	2.2	2.7	3.2	2.0	2.2	2.5	1.1	3.3	0.9	4.3	5.3	2.6	3.1	3.2	2.3	1.4	2.1	2.6	2.4	1.8	1.6	2.4	5.3
29	1.8	1.7	1.4	1.3	2.5	1.6	1.3	1.5	15.3	14.9	7.9	7.4	3.0	2.4	2.2	3.0	1.5	4.2	0.8	1.1	1.2	1.9	1.1	1.1	3.4	15.3
30	1.8	1.1	1.1	1.8	1.6	2.7	2.4	60.7	8.1	20.6	19.4	7.8	6.4	4.9	5.7	4.4	9.2	1.5	2.2	4.6	3.0	2.4	2.4	2.2	7.4	60.7
31	2.2	3.4	2.8	2.8	4.0	4.1	3.7	27.6	10.8	40.1	19.9	15.5	8.0	11.3	6.6	4.8	3.4	2.3	2.0	2.5	6.4	8.2	6.1	4.9	8.5	40.1
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	12.9	19.3	17.5	16.8	3.8	5.5	8.2	19.2	15.0	34.3	29.4	36.8	40.9	53.6	49.9	49.9	28.2	67.6	69.0	50.5	24.5	28.6	20.3	27.2		
MAX	287.6	326.5	298.3	182.7	20.1	68.0	63.1	147.0	130.6	210.9	167.0	176.0	258.9	265.0	277.7	253.4	157.0	622.9	673.4	451.0	197.5	422.3	226.0	446.9		



Number of 24HR Exceedences	4	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	673.4 UG/M3	
Maximum 24-HR Average	161.9 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	73.5	Monthly Average
		744 HRS
		100.0 %
		30.4 UG/M3