

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2024

MARCH 28, 2024



wsp



AMBIENT AIR QUALITY MONTHLY REPORT

FEBRUARY 2024

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: MARCH 28, 2024

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March 28, 2024

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – February 2024

The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Lagoon Station for February 2024.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	99.7%	-	0
PM _{2.5}	99.7%	0	0
PM ₁₀	99.7%	-	-
NO	100%	-	-
NO ₂	100%	0	-
NO _x	100%	-	-
SO ₂	98.7%	0	0
Temperature	100%	-	-
Wind Speed / Direction	100%	-	-
Pressure	100%	-	-
Relative Humidity	100%	-	-
Precipitation	100%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAOs) or Guidelines (AAAQG) at the Windridge Station for February 2024.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	99.9%	-	-	2
PM _{2.5}	99.9%	0	0	-
PM ₁₀	99.9%	-	-	-

The GRIMM monitors are considered Industrial Ambient Monitors and are meant for assessing the performance of Lafarge Exshaw’s Fugitive Dust Control Best Management Practices – Program; the GRIMM monitors are not Air Monitoring Directive (AMD) compliant. This Program uses the AAAQOs as Guidelines. The following table summarizes the data completeness and exceedances of the Guidelines at the GRIMM Monitors for February 2024.

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	54%	0	0	0
Berm	0%	0	0	0
Entrance	18.5%	0	0	1

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

Sincerely,

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

SIGNATURES

PREPARED BY



March 31, 2024

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Date

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



March 31, 2024

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

Date

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1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge’s Approval 1702-02-04. This report contains data collected between February 1, 2024 and February 29, 2024.

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

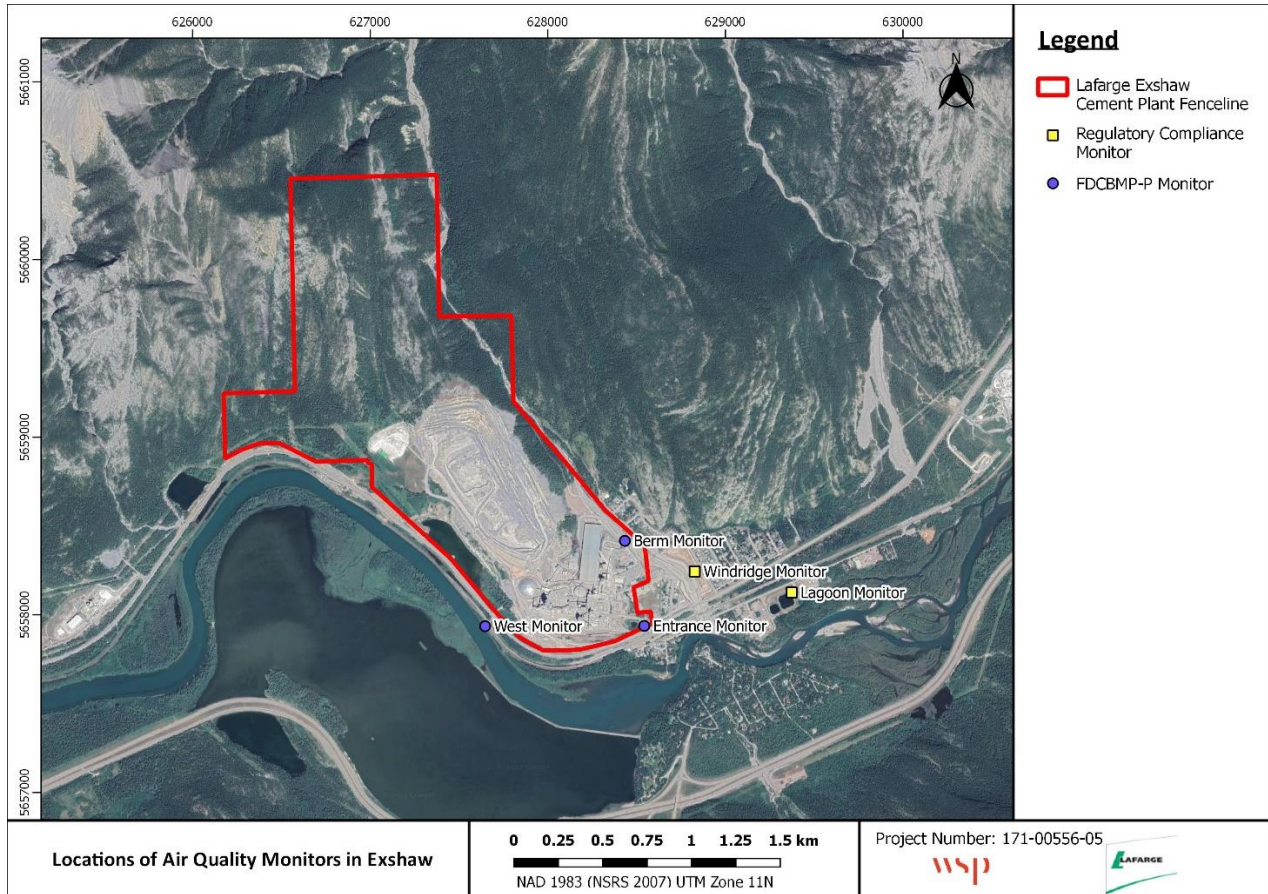


Figure 1-1 Locations of Air Quality Monitors in Exshaw

1.1 EXSHAW CREEK FLOOD MITIGATION

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



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

2 FEBRUARY 2024 REPORT SUMMARY

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

2.1 LAGOON STATION

Table 2-1 Lagoon station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQO or AAAQG	Maximum Concentration	Exceedances of AAAQO
NO₂ (ppb)	100.0	36.2	0	15.8	-
SO₂ (ppb)	98.7	6.0	0	1.9	0
PM_{2.5} (µg/m³)	99.7	48.1	0 ¹	27.9	0
PM₁₀ (µg/m³)	99.7	200.4	-	39.9	-
TSP (µg/m³)	99.7	422.8	-	75.6	0
Temperature (°C)	100.0	13.6	-	9.8	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	49.4/W	-	35.6/WSW	-
Precipitation (mm)	100.0	1.75 ²	-	11 ³	-

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

² Maximum Daily Total Accumulation of Precipitation (mm) – freezing temperatures can impact the precipitation totals in winter months

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- At the Lagoon station, NO₂ analyzer recorded 100% uptime for the month of February
- All meteorological analyzers recorded 100% uptime for the month of February.
- The TSP, PM₁₀ and PM_{2.5} analyzers recorded 99.7% uptime for the month of February due to two hours of equipment malfunction occurring on February 8th at 17:00 and 18:00.
- The SO₂ analyzer recorded 98.7% uptime for the month of February due to nine hours of maintenance occurring on February 22nd at 13:00 – 15:00, and February 23rd at 12:00 – 17:00.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	99.9	42.0	0*	23.3	0
PM ₁₀ (µg/m ³)	99.9	485.0	-	180.9	-
TSP (µg/m ³)	99.9	709.0	-	283.8	2

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

Data Quality Notes:

- There were zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There were zero hours exceeding the 1-hour PM_{2.5} AAAQG.
- There were 2 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The PM_{2.5}, PM₁₀, and TSP monitors recorded 99.9% uptime during the month of February due to one hour of equipment malfunction occurring on February 8th at 17:00.

2.3 WEST GRIMM

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

Table 2-3 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines

PM_{2.5} (µg/m³)	54.0	12.8	0*	6.1	0
PM₁₀ (µg/m³)	54.0	17.6	-	7.7	-
TSP (µg/m³)	54.0	20.5	-	7.9	0

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- The analyzer recorded 54% uptime during the month of February due to 304 hours of out for repair occurring from the beginning of the month till February 13th at 16:00. And further, 16 hours of equipment malfunction occurring on February 23rd at 22:00 – February 24th at 13:00.

2.4 BERM GRIMM

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

Calibration/Maintenance Notes:

- The analyzer had 0% uptime during the month of February due to equipment malfunction issues and was out for repair.

2.5 ENTRANCE GRIMM

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

Table 2-4 Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM_{2.5} (µg/m³)	18.5	49.8	0*	15.0	0
PM₁₀ (µg/m³)	18.5	367.0	-	85.4	-
TSP (µg/m³)	18.5	3322.5	-	658.9	1

* 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} Guidelines.
- There were no exceedances of the 1-hour PM_{2.5} Guidelines.
- There was one exceedance of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 18.5% uptime for the month of February due to 541 hours of out for repair time occurring from the beginning of the month to February 23rd at 13:00. Further, three hours of maintenance time to rebuild the analyzer on February 23rd at 14:00 – 16:00 and 22 hours recovery time occurring on February 23rd at 17:00 to February 24th at 14:00. Lastly, one hour of equipment malfunction occurring on February 27th at 13:00.

3 LAGOON STATION

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

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (**Error! Reference source not found.**) and tables and graphs illustrating the monitoring results for February 2024.

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

3.1 OPERATIONAL SUMMARY

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

Table 3-1 Instrumentation List at the Lagoon Station

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on February 23 rd . The monitor had 99.7% uptime for the month of February due to two hours of equipment malfunction occurring on February 8 th at 17:00 and 18:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on February 23 rd . The monitor had 99.7% uptime for the month of February due to two hours of equipment malfunction occurring on February 8 th at 17:00 and 18:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on February 23 rd . The monitor had 99.7% uptime for the month of February due to two hours of equipment malfunction occurring on February 8 th at 17:00 and 18:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on February 8 th . The monitor had 100% uptime for the month of February.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on February 8 th . The monitor had 98.7% uptime for the month of February due to nine hours of maintenance occurring on February 22 nd at 13:00 – 15:00, and February 23 rd at 12:00 – 17:00.

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



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

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in February 2024. Figure 3-2 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-8 shows daily average concentrations recorded during February 2024 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There were no exceedances the 24-hour TSP (100 µg/m³) AAAQO. There were 0 exceedances of the 24-hour PM_{2.5} (29 µg/m³) AAAQO. Further, there were 0 exceedances of the 1-hour PM_{2.5} AAAQG (80 µg/m³).

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

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

Table 3-2 Summary of February 2024 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO₂ (ppb)	159	-	Lagoon	0	-	0.5	9.3	36.2	4	16	13.9	51.9	15.8	7	100.0
SO₂ (ppb)	172	48	Lagoon	0	0	0.0	0.6	6.0	2	13	10.4	278.6	1.9	2	98.7
PM_{2.5} (µg/m³)	80	29	Lagoon	0	0	0.0	4.7	48.1	7	6	4.6	63.6	27.9	7	99.7
PM₁₀ (µg/m³)	-	-	Lagoon	-	-	0.0	19.1	200.4	23	12	40.2	255.0	39.9	1	99.7
TSP (µg/m³)	-	100	Lagoon	-	0	0.0	33.4	422.8	23	12	40.2	255.0	75.6	1	99.7
Temperature (°C)	-	-	Lagoon	-	-	-21.8	-3.1	13.6	1	15	15.7	265.4	9.8	1	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	0.4	14.2	49.4/W	23	17	49.4	244.4	35.6/WSW	23	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	1.8 ¹	3	8	3.2	8.2	11.0 ²		100.0

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

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

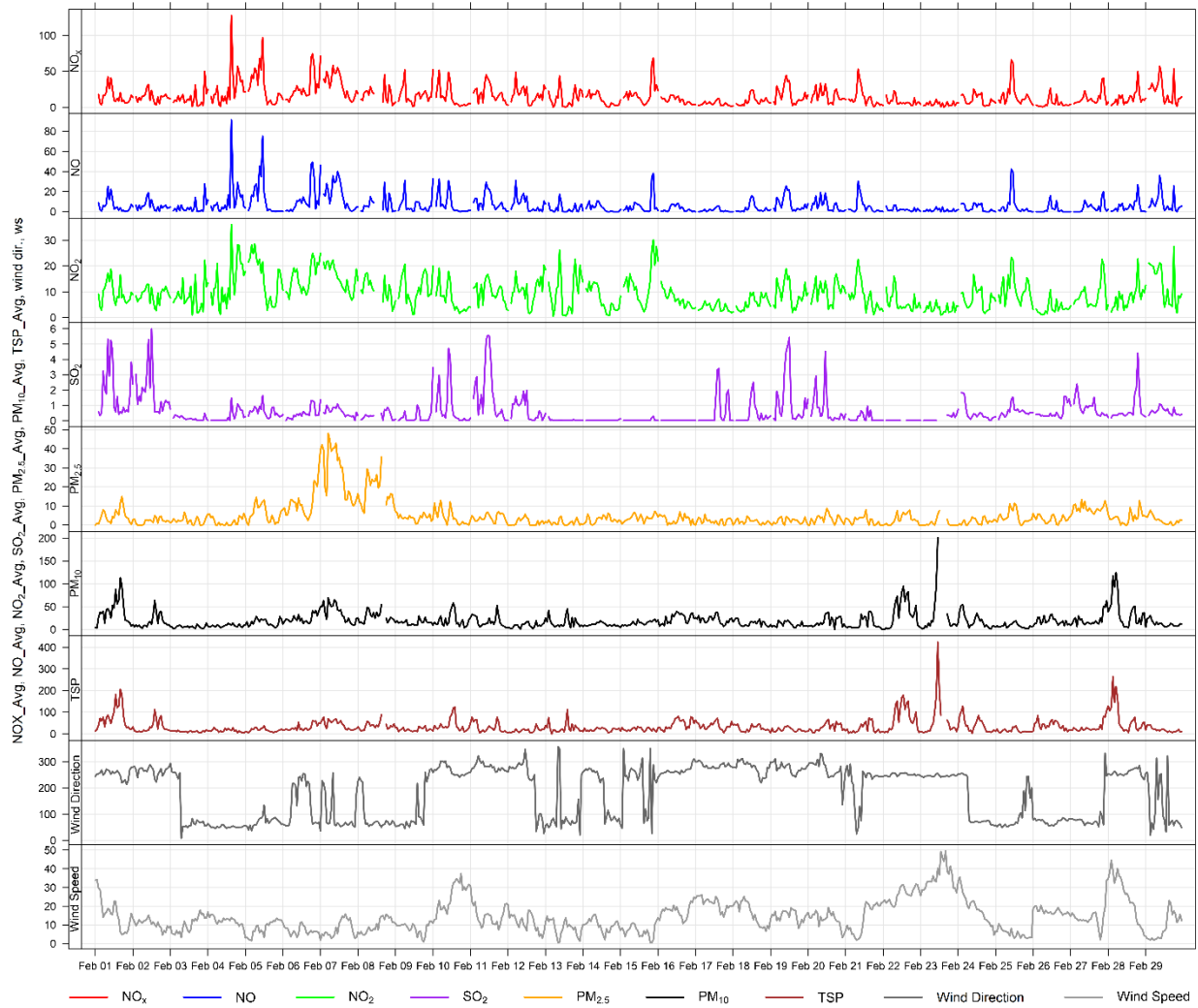


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

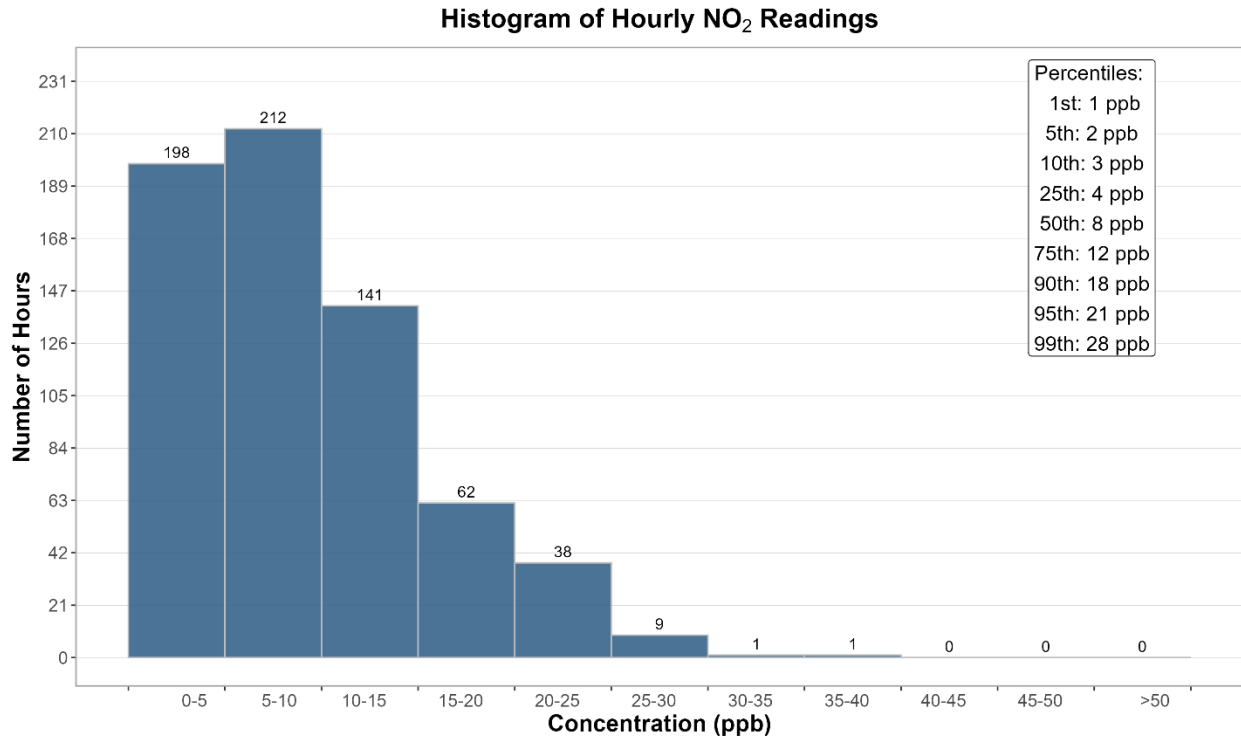


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

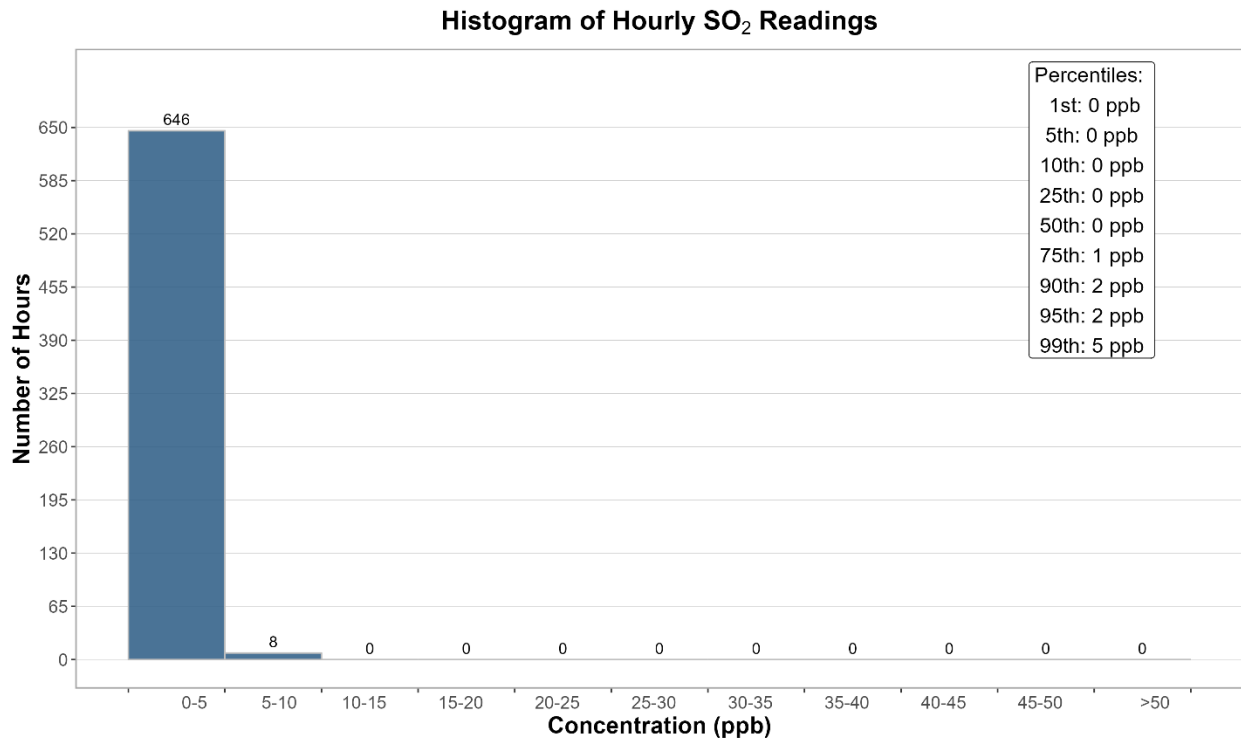


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

Histogram of Hourly PM_{2.5} Readings

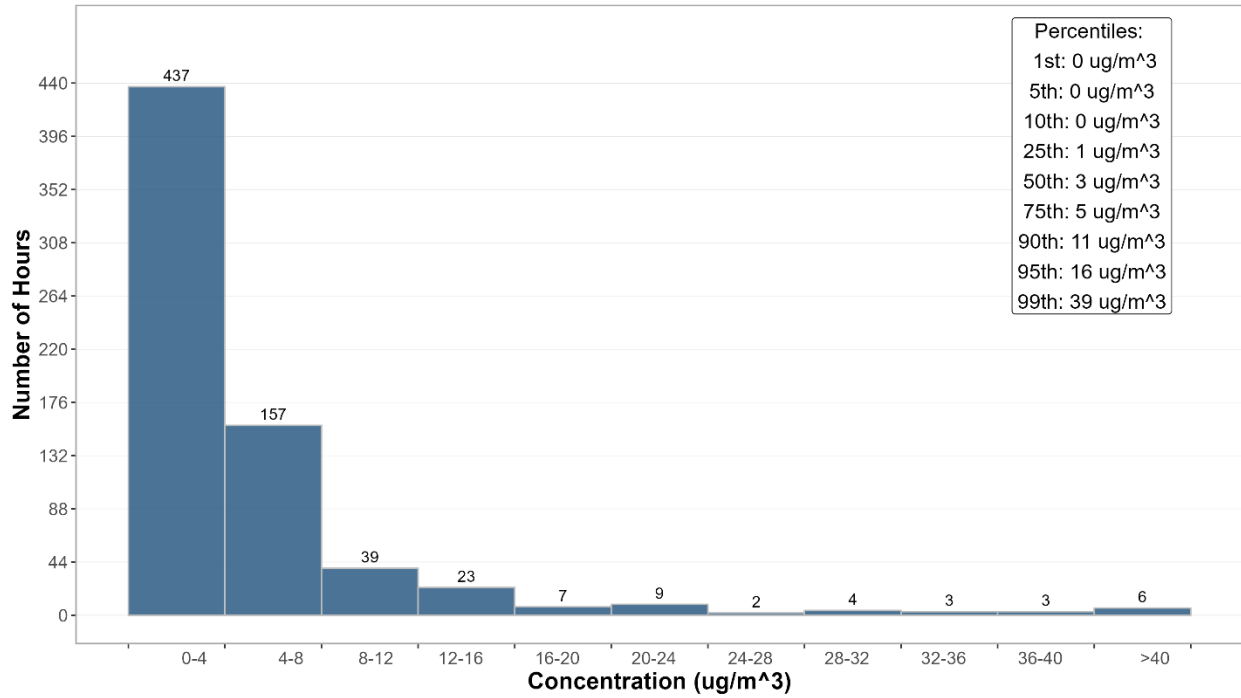


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

Histogram of Hourly PM₁₀ Readings

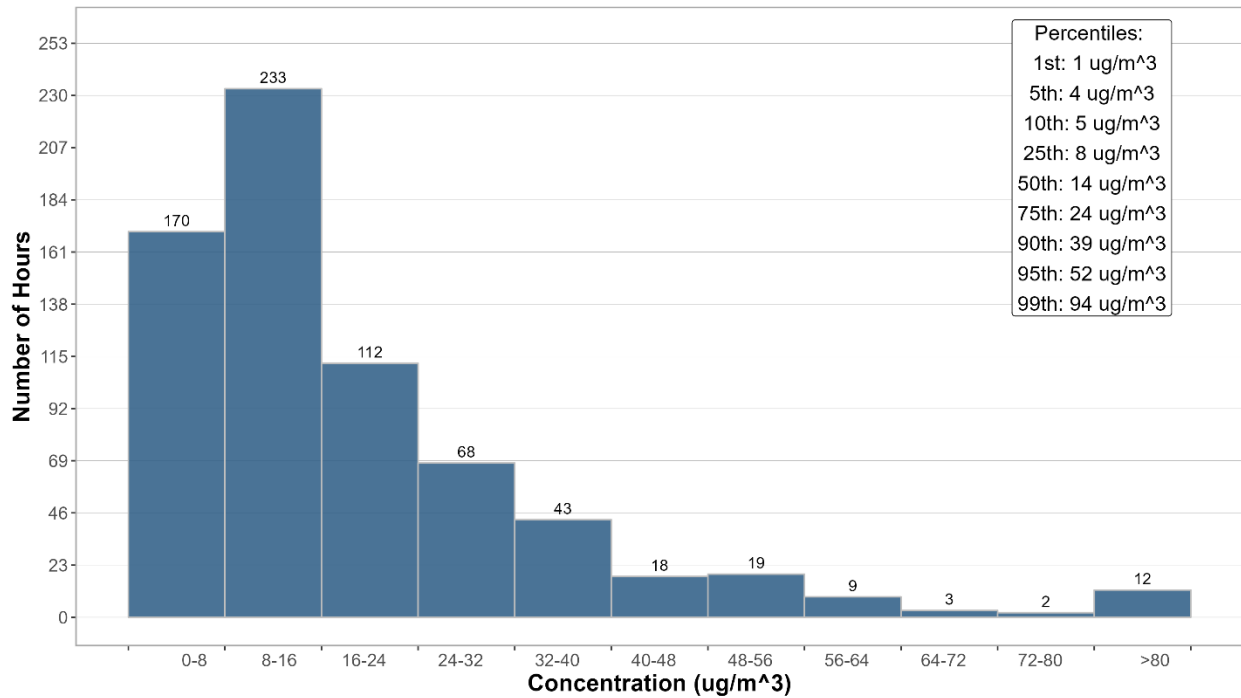


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

Histogram of Hourly TSP Readings

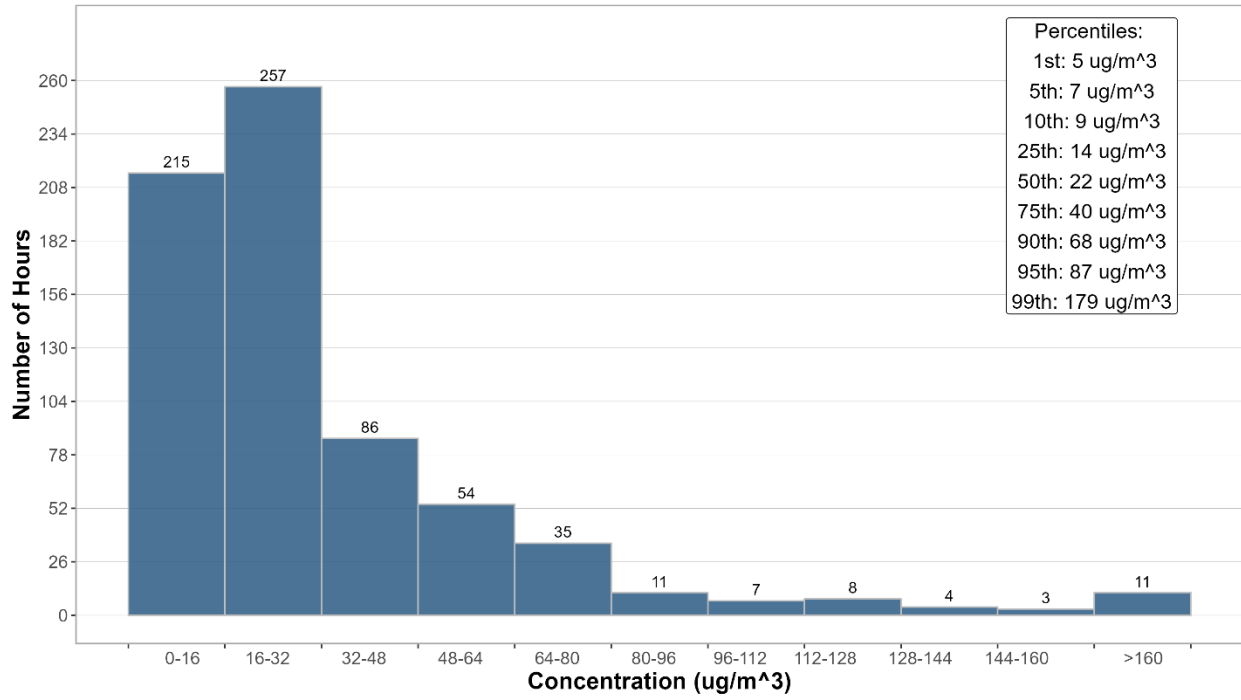


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

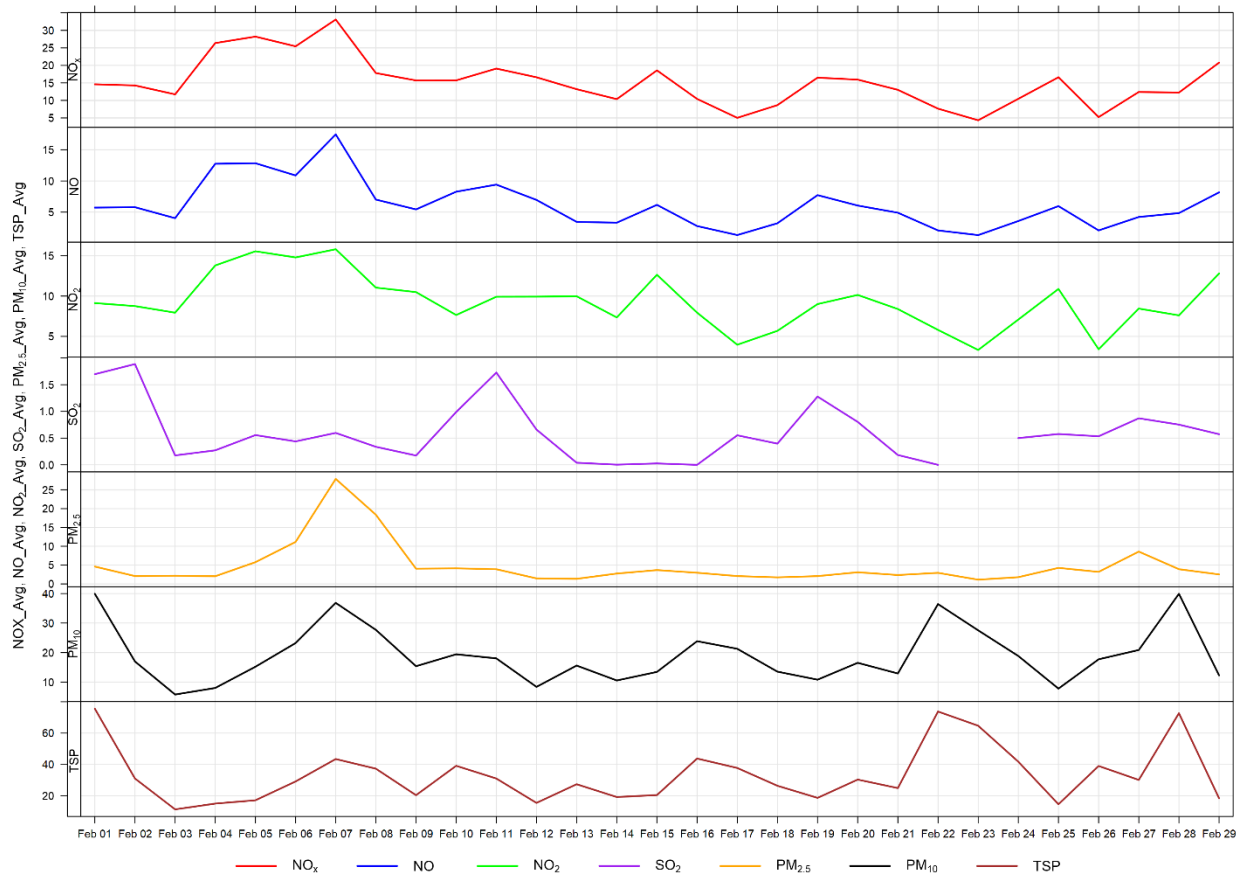


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-9 through Figure 3-11 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-9 typically shows that PM₁₀ and TSP concentrations have a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other airshed activities. The diurnal patterns also typically follow the diurnal pattern of higher wind speeds during the daytime hours.

Figure 3-10 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 3-11 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.

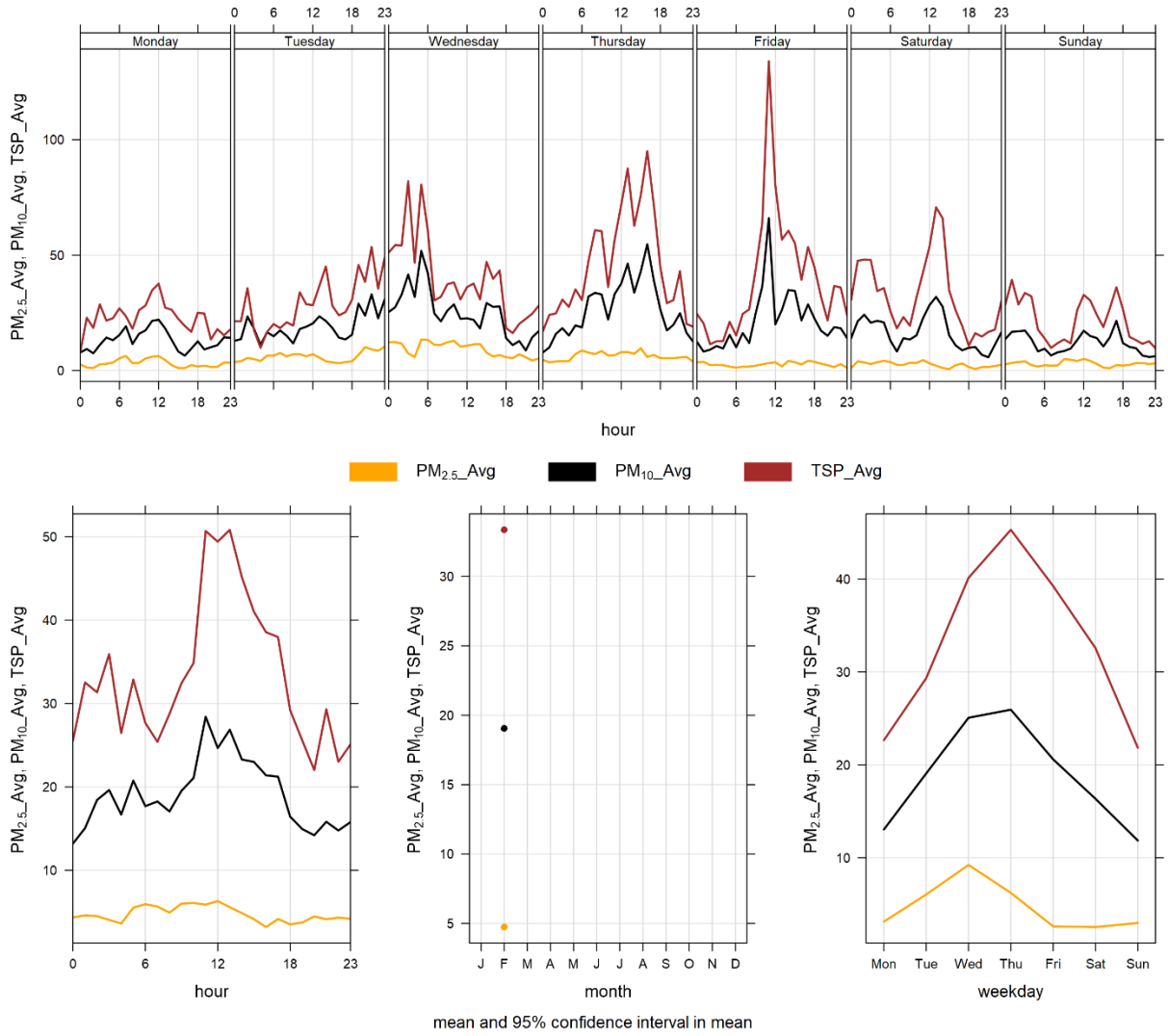


Figure 3-9 Lagoon monitor particulate matter time variation

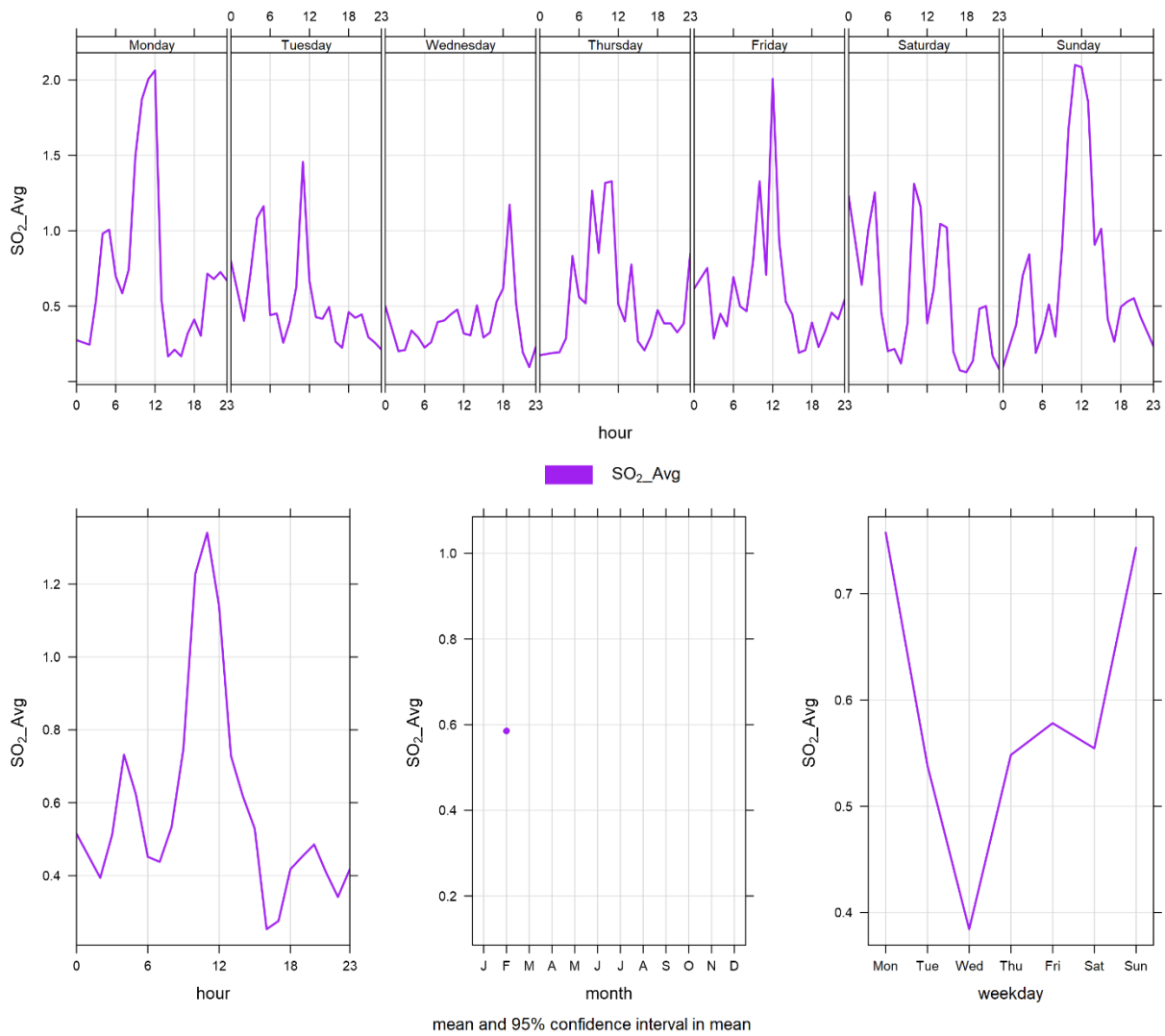


Figure 3-10 Lagoon monitor SO₂ time variation

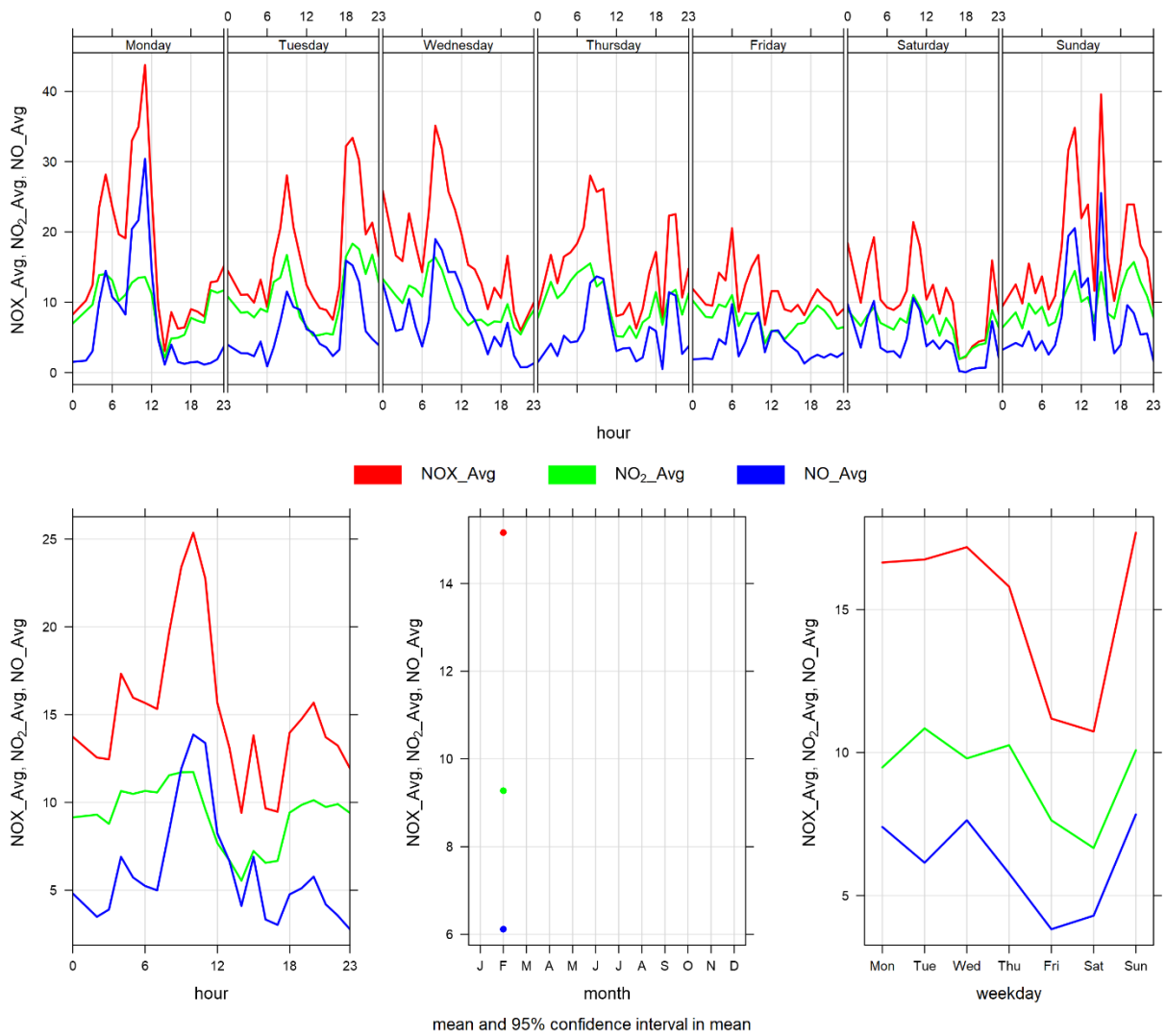


Figure 3-11 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for February 2024.

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

4.1 OPERATIONAL SUMMARY

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

Table 4-1 Instrumentation List at the Windridge monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on February 23 rd . The monitor recorded 99.9% uptime during the month of February due to one hour of equipment malfunction occurring on February 8 th at 17:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on February 23 rd . The monitor recorded 99.9% uptime during the month of February due to one hour of equipment malfunction occurring on February 8 th at 17:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on February 23 rd . The monitor recorded 99.9% uptime during the month of February due to one hour of equipment malfunction occurring on February 8 th at 17:00.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in February 2024, and Table 4-3 summarizes the recorded exceedances. Figure 4-1 illustrates the time series for hourly PM, Figure 4-2 to Figure 4-4 illustrates the histograms for hourly PM, Figure 4-5 illustrates the time series for daily PM, Figure 4-6 displays the wind rose for the 24-hour TSP, and Figure 4-7 illustrates the time series for hourly PM over different time periods.

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

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

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

Table 4-2 Summary of February 2024 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
PM_{2.5} (µg/m ³)	80	29	Windridge	0	0	0.0	2.9	42.0	7	5	5.8	67.8	23.3	7	99.9
PM₁₀ (µg/m ³)	-	-	Windridge	-	-	0.0	28.9	485.0	23	11	33.1	254.1	180.9	23	99.9
TSP (µg/m ³)	-	100	Windridge	-	2	0.0	41.4	709.0	23	11	33.1	254.1	283.8	23	99.9

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2024-02-23	283.1	-	245.9	35.6	36.7	High wind event
2024-02-28	122.1	-	256.4	25.6	62.4	High wind event
Total # of Exceedances	2	0				
Maximum # of Exceedances (February)	11 (2022)	1 (2022)				
Average # of Exceedances (February)	8	0				
Minimum # of Exceedances (February)	3 (2019)	0 (2018, 2019, 2021)				

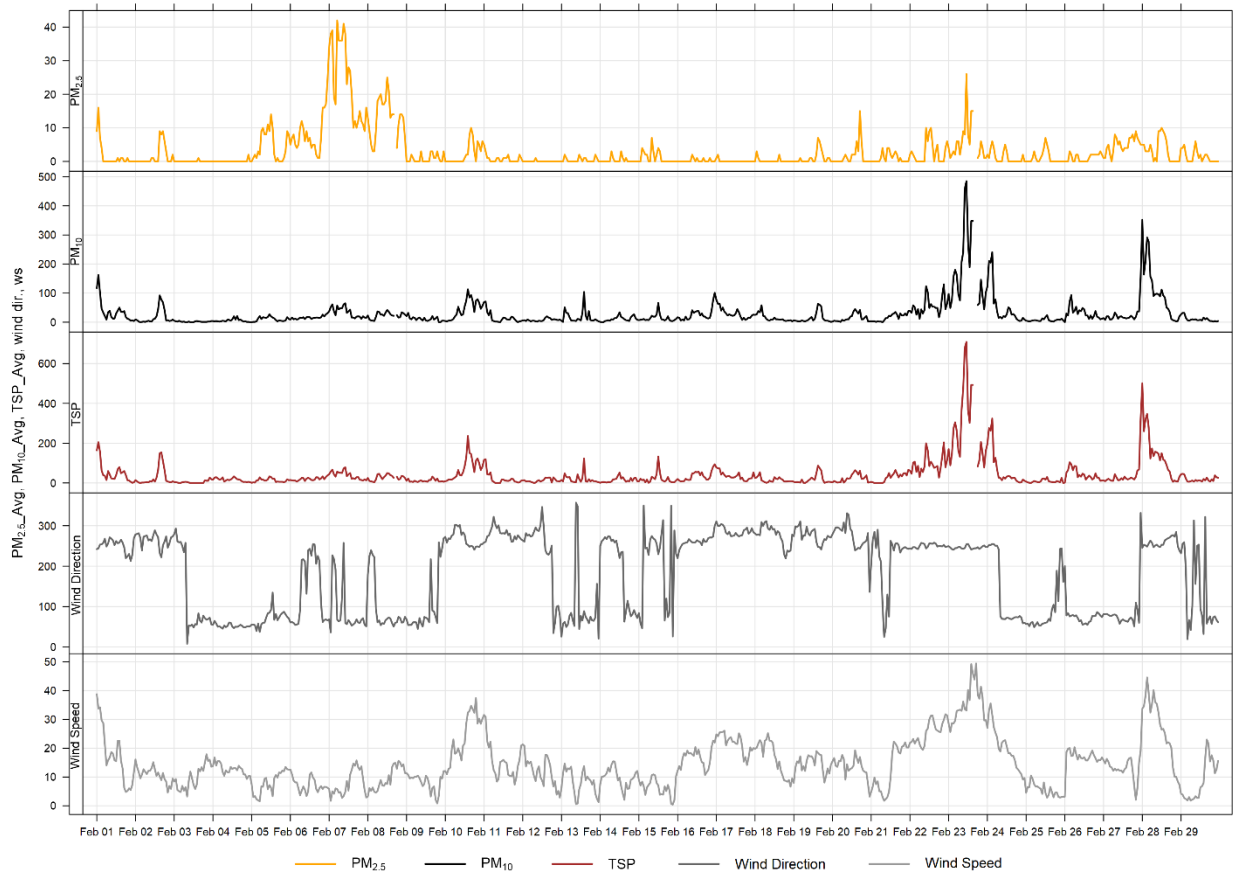


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

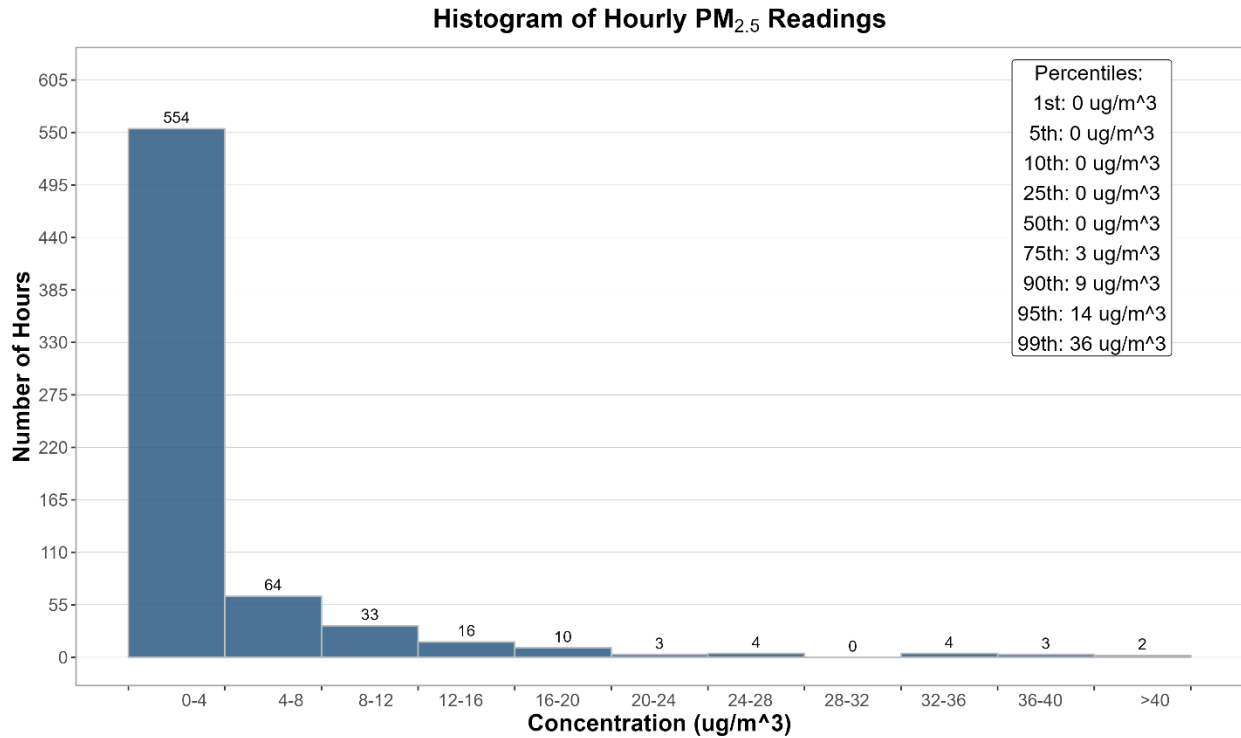


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

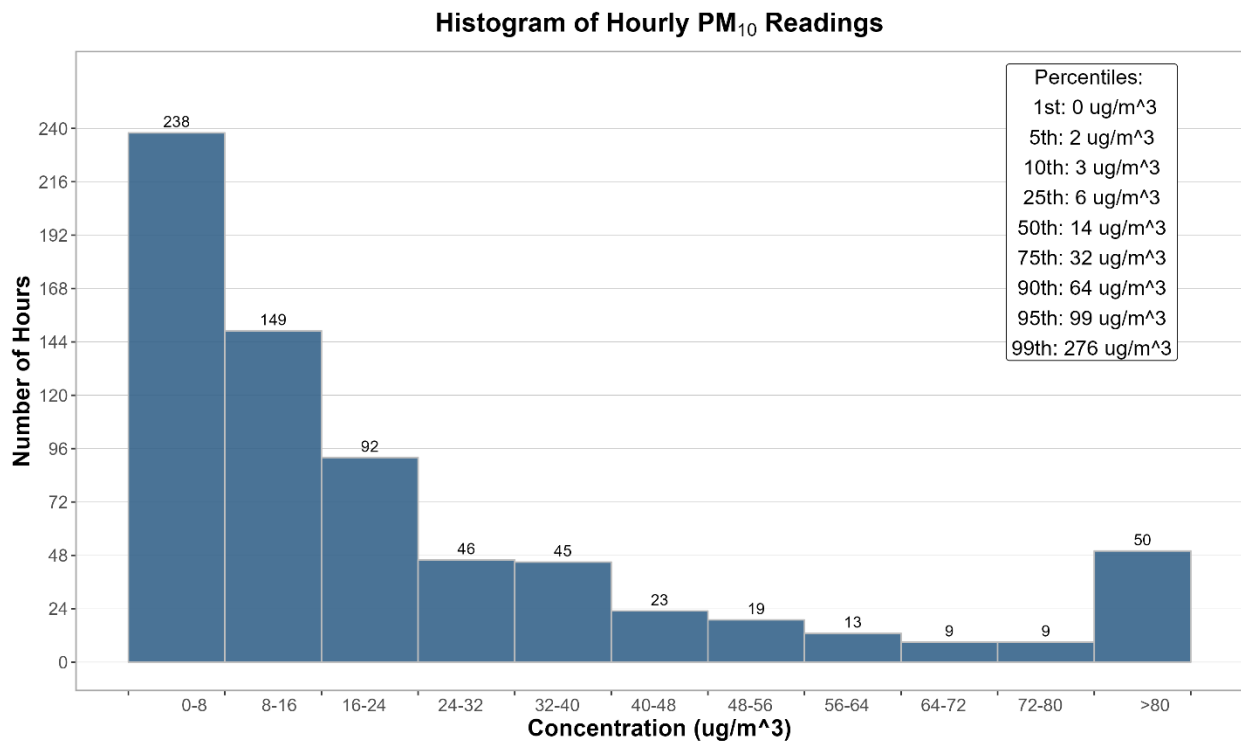


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

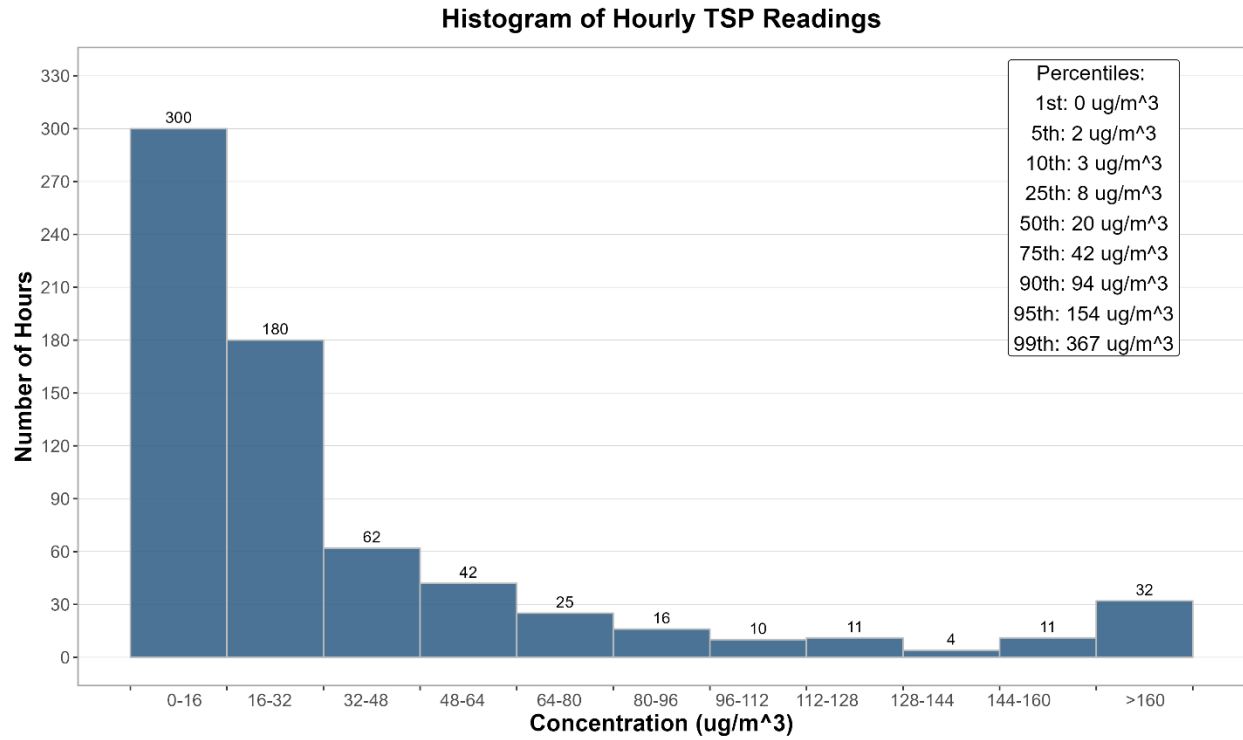


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

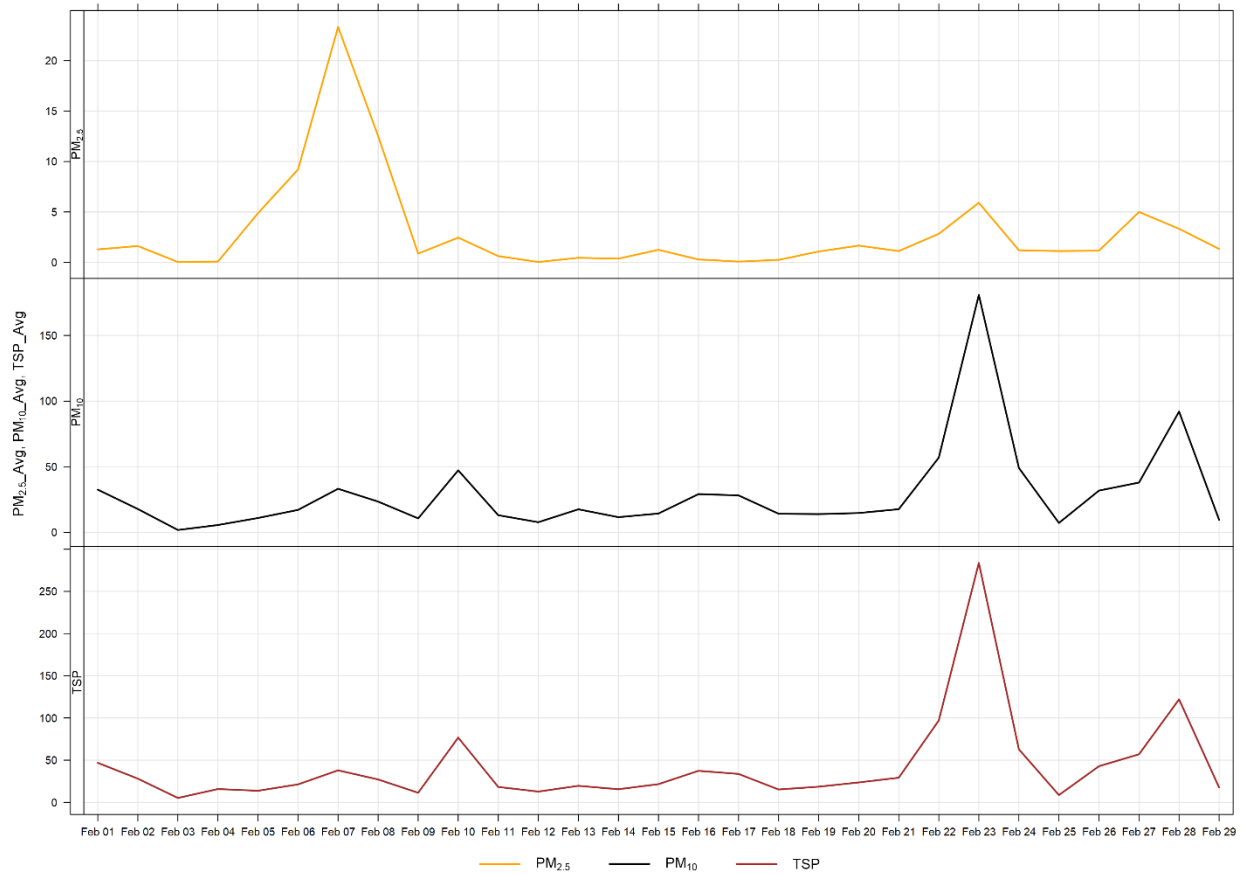


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 2 days of TSP exceedances. The wind roses shows that the winds predominantly came from the west-southwest direction, and were predominantly over 25 km/hr. This month the TSP exceedances were largely driven by windblown fugitive dust.

Figure 4-7 illustrates the hourly PM concentrations recorded at the Windridge monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 4-7 is based on data collected during February 2024. Similar to the Lagoon station, typically PM concentrations show a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities. The diurnal patterns also follow the diurnal pattern of higher wind speeds during the daytime hours.

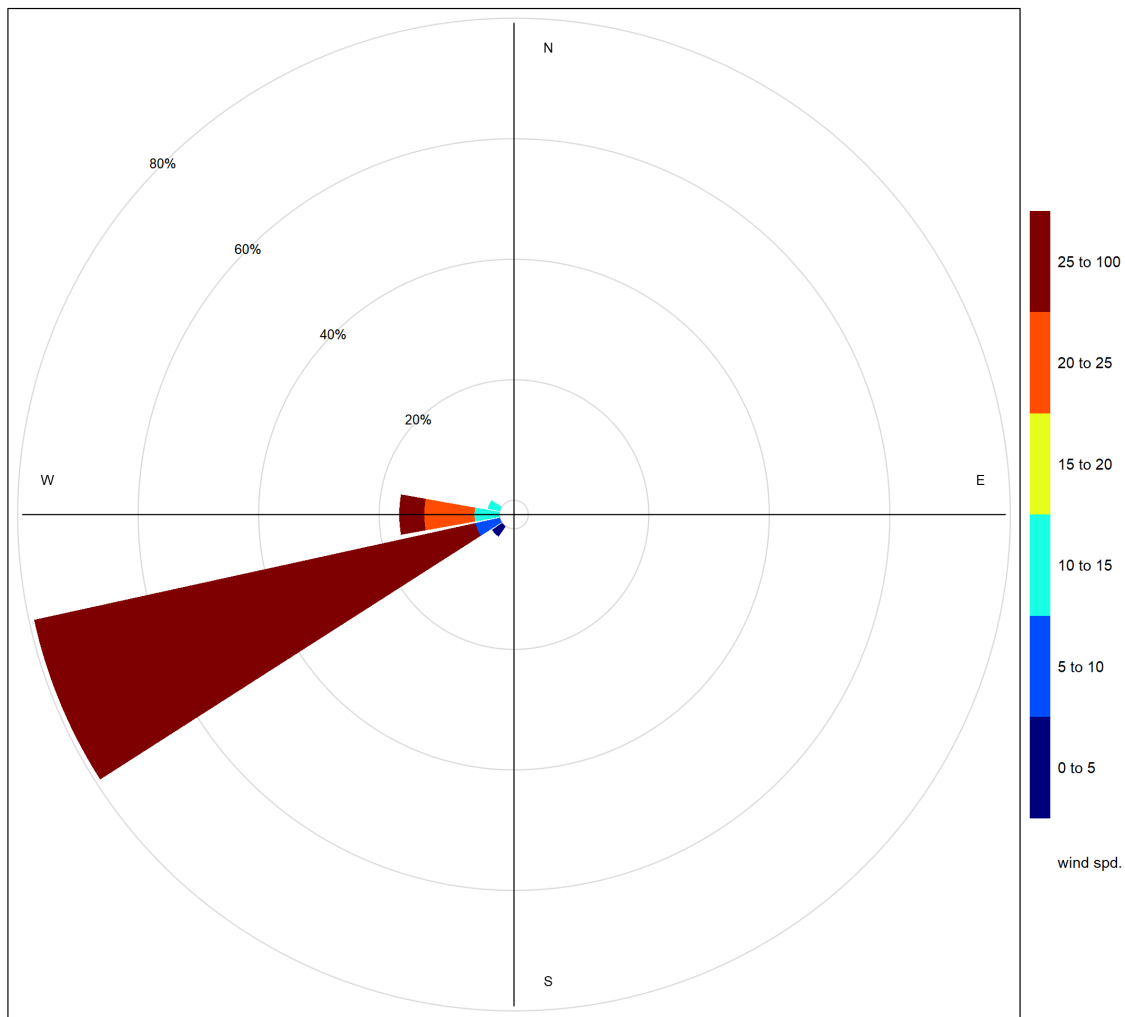


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

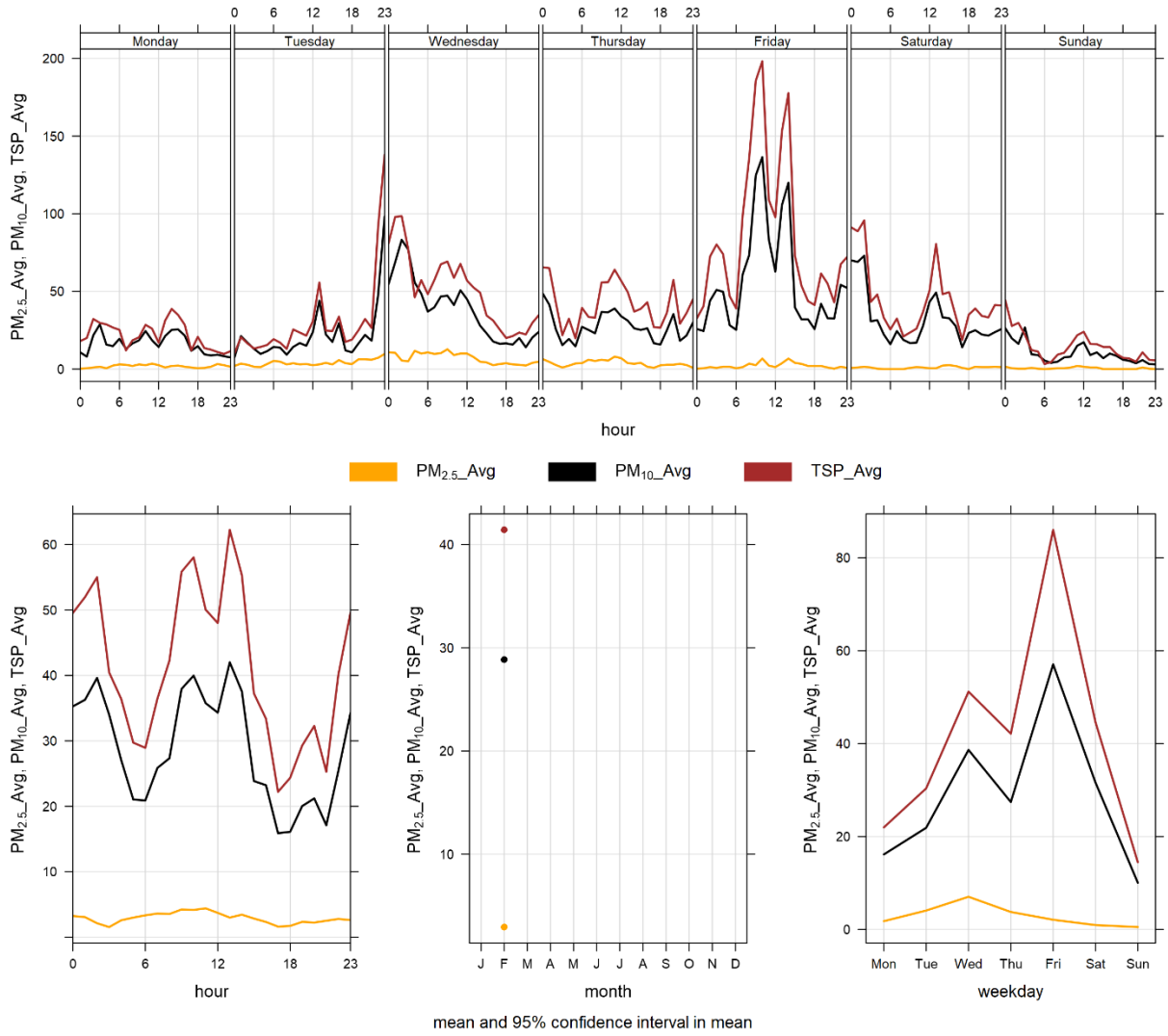


Figure 4-7 Windridge particulate matter time variation

5 WEST INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

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

Table 5-1 Instrumentation List at the West monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 54% uptime during the month of February due to 304 hours of out for repair occurring from the beginning of the month till February 13th at 16:00. And further, 16 hours of equipment malfunction occurring on February 23rd at 22:00 – February 24th at 13:00.

5.2 MONITORING RESULTS AND TRENDS

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

Figure 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month.

There were no exceedances of the 24-hour TSP Guideline (100 µg/m³) and no exceedances of the 24-hour PM_{2.5} (29µg/m³) Guideline. Further, there were zero hours exceeding the 1-hour PM_{2.5} Guideline. The low data completeness for the month should be considered when interpreting results.

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

Table 5-2 Summary of February 2024 data at the West GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
PM_{2.5} ($\mu\text{g}/\text{m}^3$)	80	29	West	0	0	0.2	2.5	12.8	25	11	8.1	58.7	6.1	27	54.0
PM₁₀ ($\mu\text{g}/\text{m}^3$)	-	-	West	-	-	0.2	3.1	17.6	23	10	33.6	244.8	7.7	27	54.0
TSP ($\mu\text{g}/\text{m}^3$)	-	100	West	-	0	0.2	3.2	20.5	23	10	33.6	244.8	7.9	27	54.0

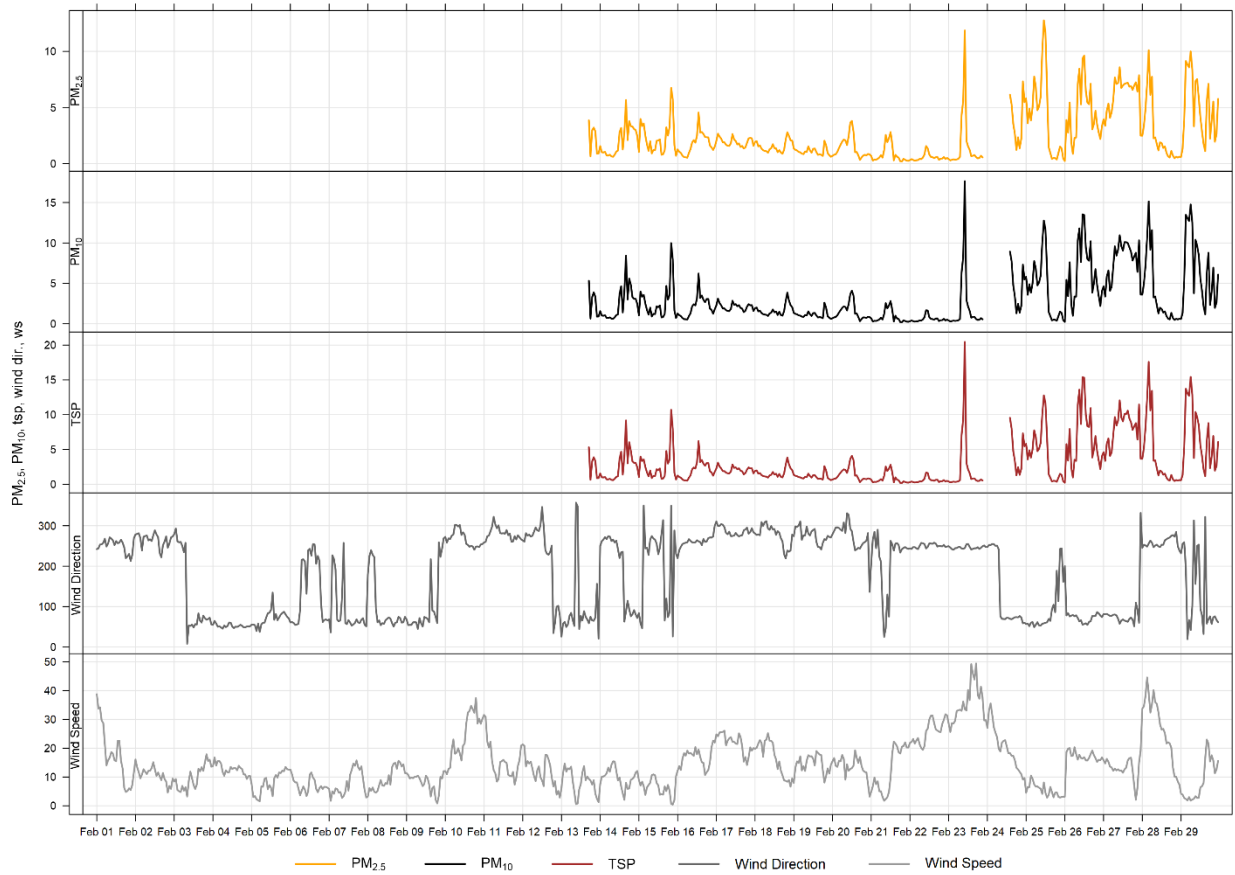


Figure 5-1 1-hour particulate matter concentrations at the West monitor

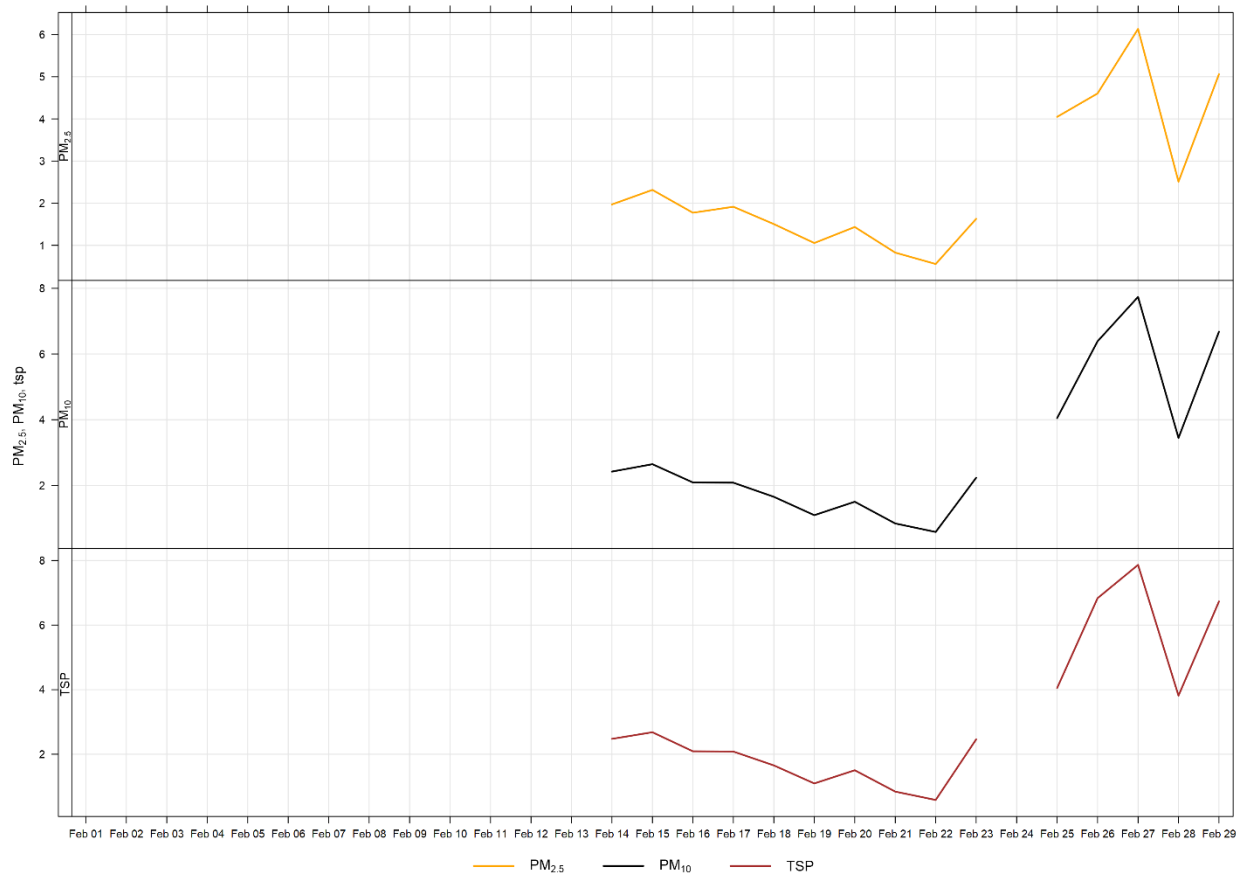


Figure 5-2 24-hour particulate matter concentrations at the West monitor

Figure 5-3 illustrates the hourly PM concentrations recorded at the West monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 5-3 is based on data collected during February 2024. Historically this monitor saw daily variations in PM that were more likely a result of higher traffic volume during daylight hours than specific Lafarge operations. The West monitor was moved to its current location (Figure 1-1) on December 1st, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.

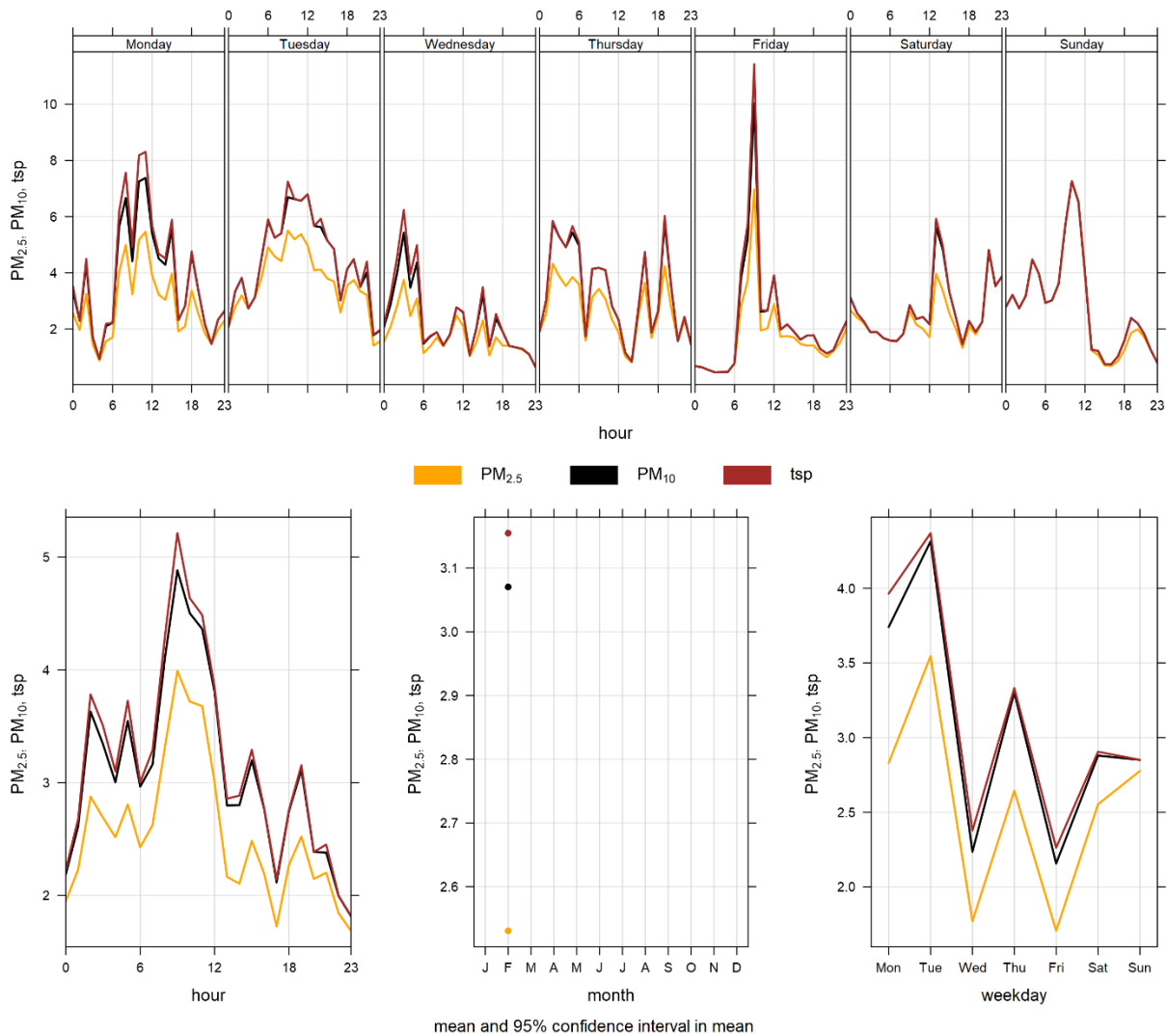


Figure 5-3 West monitor particulate matter time variation

6 ENTRANCE INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

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

Table 6-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 18.5% uptime for the month of February due to 541 hours of out for repair time occurring from the beginning of the month to February 23 rd at 13:00. Further, three hours of maintenance time to rebuild the analyzer on February 23 rd at 14:00 – 16:00 and 22 hours recovery time occurring on February 23 rd at 17:00 to February 24 th at 14:00. Lastly, one hour of equipment malfunction occurring on February 27 th at 13:00.

6.2 MONITORING RESULTS AND TRENDS

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

There were 1 and 0 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were no exceedances of the 1-hour PM_{2.5} Guideline. The low data completeness for the month should be considered when interpreting results.

Historically during the month of February, the Entrance monitor records an average of 13 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during February occurred in 2014 where there were 25 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in February was 2 days in 2015.

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

The Entrance monitor is impacted by fugitive dust from plant activities, and high wind events. Trucks also pass near to the Entrance monitor as they enter and exit the Lafarge facility for loading and deliveries. Additionally, the monitor is closely located to Highway 1A. Traffic, particularly large trucks, can create dust while crossing over the

railway tracks. This can all lead to the monitor recording high TSP concentrations, which are typically associated with fugitive dust sources.

Table 6-2 Summary of February 2024 data at the Entrance GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
PM_{2.5} (µg/m ³)	80	29	Entrance	0	0	1.4	8.8	49.8	28	22	8.4	249.1	15.0	28	18.5
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	1.6	26.2	367.0	28	3	44.6	248.4	85.4	28	18.5
TSP (µg/m ³)	-	100	Entrance	-	1	1.6	144.4	3322.5	28	3	44.6	248.4	658.9	28	18.5

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

Date	TSP (ug/m³)	PM_{2.5} (ug/m³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2024-02-28	658.9	-	256.4	25.6	62.4	High wind event
Total # of Exceedances	1	0				
Maximum # of Exceedances (February)	25 (2014)	2 (2015)				
Average # of Exceedances (February)	13	0				
Minimum # of Exceedances (February)	0 (2023)	0 (2010, 2011, 2013, 2016, 2017, 2018, 2020, 2021, 2022, 2023)				

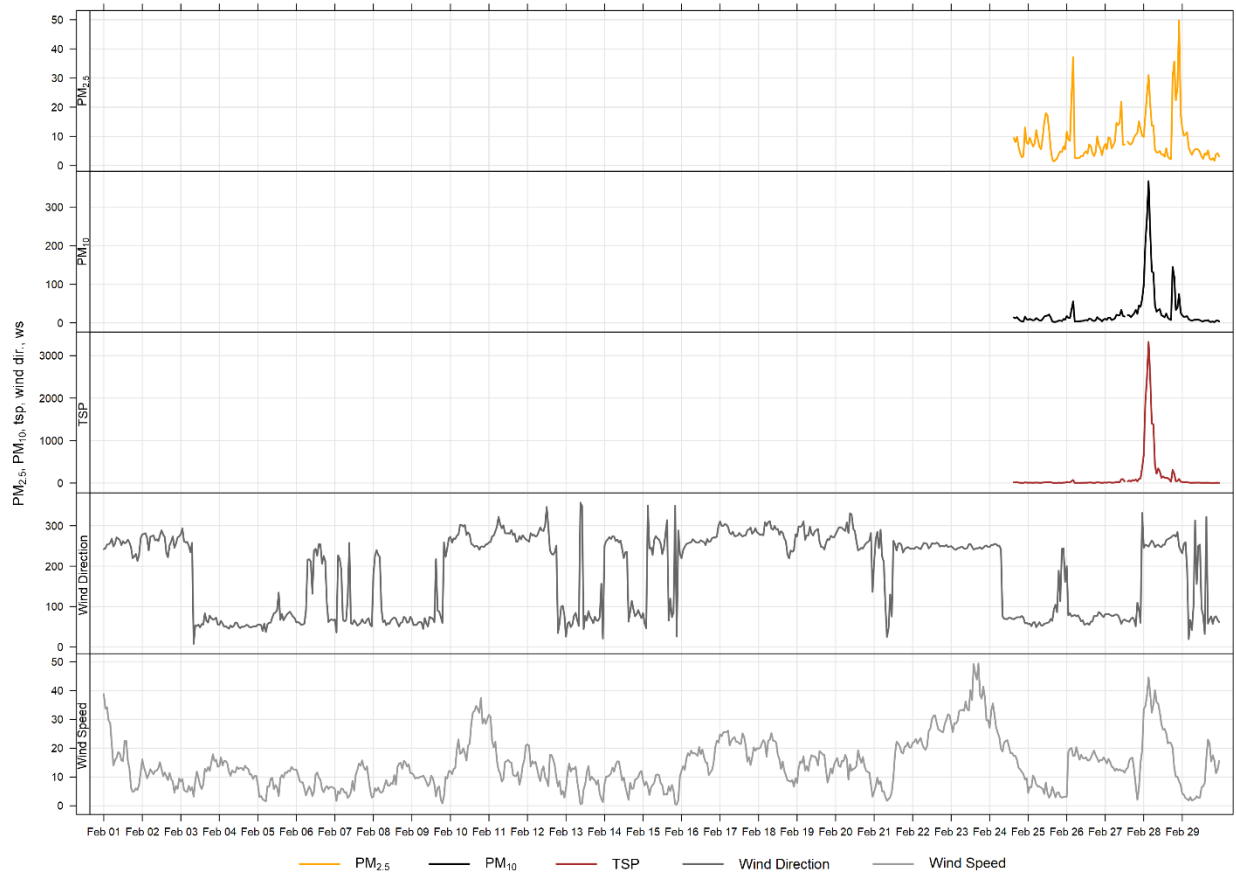


Figure 6-1 1-hour particulate matter concentrations recorded at the Entrance monitor

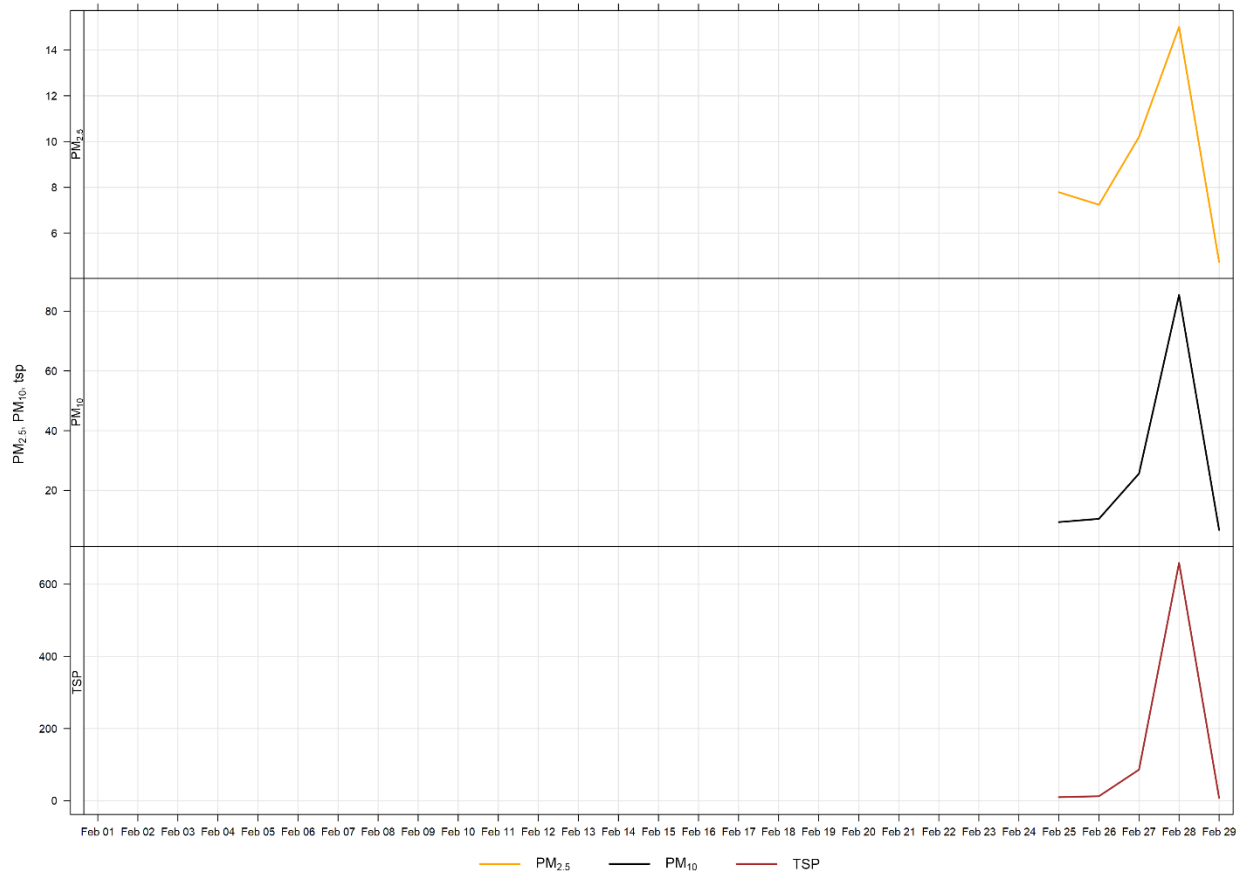


Figure 6-2 24-hour particulate matter concentrations recorded at the Entrance monitor

Figure 6-3 shows the wind rose for the one day of TSP exceedances. The wind rose shows that the wind predominately came from the west-southwest direction, and were predominately over 25 km/hr. This month many of the TSP exceedances were driven by windblown fugitive dust.

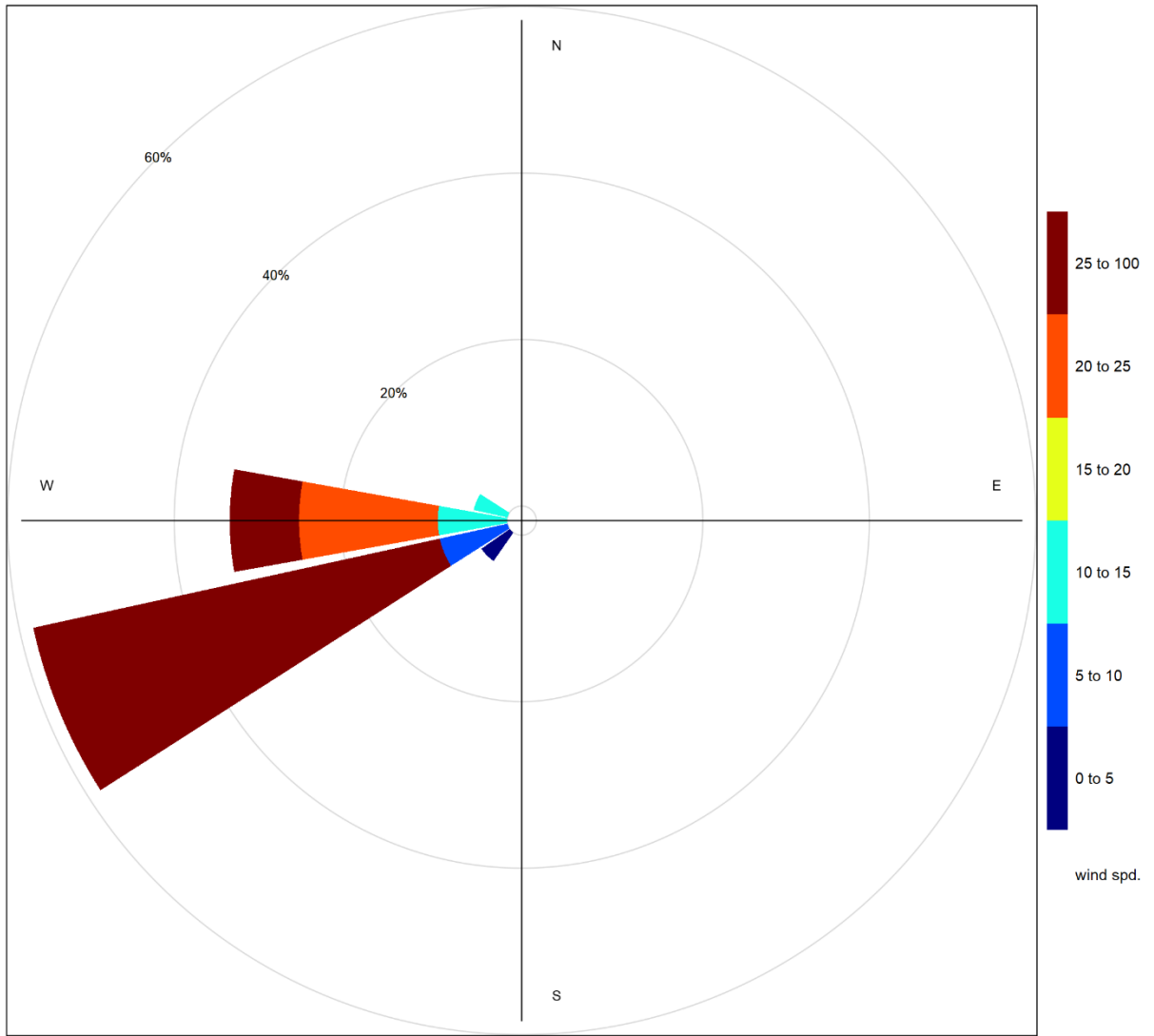


Figure 6-3 Windrose for TSP exceedance days recorded at the Entrance GRIMM

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

APPENDIX

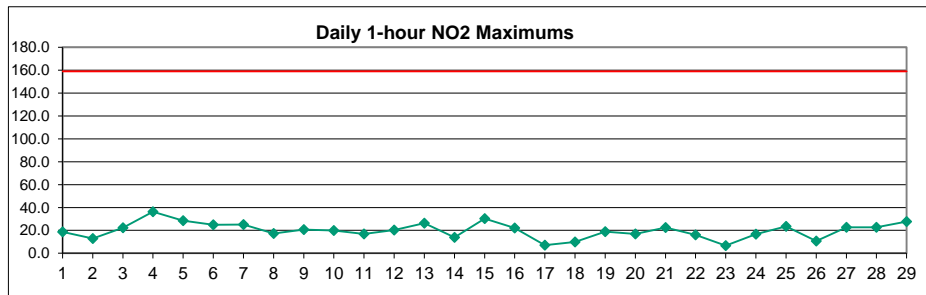
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – February 2024

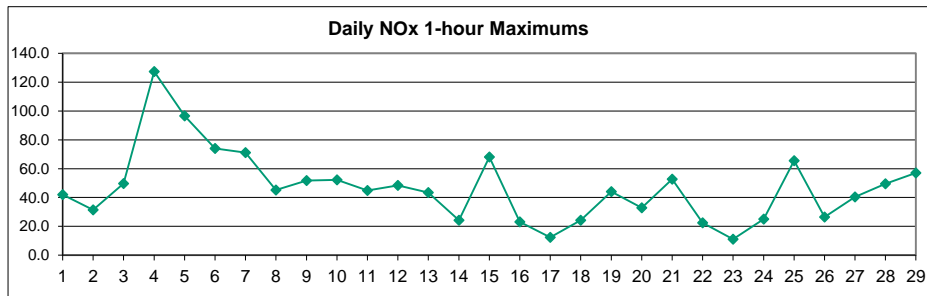
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.1	S	9.0	4.1	2.8	10.5	11.5	13.8	17.2	13.9	18.8	12.5	6.9	4.8	8.1	7.7	16.5	7.7	8.7	6.2	5.6	6.2	6.9	9.8	9.1	18.8
2	8.9	S	8.3	6.2	7.2	7.5	9.8	10.0	10.9	12.9	12.9	5.4	11.6	7.1	3.5	2.6	9.5	4.6	9.7	11.0	10.3	12.2	10.5	8.8	8.8	12.9
3	7.6	S	5.8	7.2	7.9	10.2	8.0	7.2	15.4	5.4	6.3	7.4	8.0	12.2	1.0	7.7	16.7	1.9	1.9	3.1	5.5	2.2	22.2	11.9	7.9	22.2
4	13.3	S	9.7	4.7	11.2	11.8	20.9	3.0	1.3	11.8	6.0	9.0	3.5	11.4	7.0	36.2	17.4	8.8	16.3	28.2	28.1	21.0	20.8	16.3	13.8	36.2
5	17.8	S	21.6	23.2	28.2	24.8	28.6	23.2	20.6	22.6	17.2	21.7	12.7	8.1	2.9	6.1	8.0	4.2	4.0	4.0	6.6	18.8	18.5	14.7	15.6	28.6
6	10.6	S	10.0	9.5	6.9	12.6	16.4	19.3	17.6	18.8	13.3	12.2	9.4	11.9	10.5	8.7	10.3	14.0	21.7	24.9	23.2	16.6	21.4	20.6	14.8	24.9
7	25.0	S	21.5	18.9	21.7	22.0	18.6	20.9	22.4	18.9	17.6	15.3	14.6	13.7	11.9	10.9	9.8	14.7	10.9	8.3	6.7	7.7	13.3	18.8	15.8	25.0
8	14.3	S	10.6	9.4	14.5	17.1	17.4	12.6	14.3	11.6	10.4	C	C	C	C	C	6.0	16.3	8.3	6.5	12.7	10.4	2.4	3.9	11.1	17.4
9	6.5	S	7.4	11.4	16.0	18.1	20.7	5.4	9.0	7.0	5.2	1.3	7.8	9.4	11.7	9.0	14.6	17.5	18.8	17.0	8.1	8.9	9.1	10.5	20.7	
10	19.9	S	8.5	12.4	19.2	8.3	8.2	8.6	5.7	11.5	17.9	14.8	6.5	5.0	2.9	4.2	3.1	1.5	2.2	2.6	3.1	2.4	3.2	4.2	7.7	19.9
11	3.9	S	11.5	11.8	13.4	3.7	9.4	12.9	4.8	13.1	15.9	16.8	14.8	12.0	8.4	8.6	7.6	8.7	11.0	12.2	11.5	6.6	6.3	3.3	9.9	16.8
12	2.8	S	5.5	9.7	10.1	17.9	12.3	9.8	10.3	11.6	11.4	7.2	13.0	1.8	1.6	2.2	6.3	8.4	13.1	14.9	12.1	16.0	10.1	20.3	9.9	20.3
13	18.7	S	13.7	9.8	6.0	0.5	3.5	11.1	12.1	26.2	16.3	0.9	1.0	0.6	1.5	4.3	3.7	1.5	16.4	22.7	13.2	9.3	20.4	16.2	10.0	26.2
14	13.8	S	11.2	10.0	14.0	10.3	12.6	13.8	13.3	13.3	11.3	6.7	4.5	5.1	3.5	1.1	0.9	0.9	5.4	5.2	3.1	2.8	2.7	3.5	7.3	14.0
15	8.3	S	12.0	13.6	15.8	10.0	16.9	14.6	13.6	10.6	12.0	7.2	6.5	5.3	3.6	2.2	3.3	6.6	9.9	14.3	26.4	30.2	20.4	27.6	12.7	30.2
16	22.0	S	13.9	11.5	11.0	8.2	7.3	8.7	11.7	9.6	9.0	6.2	6.8	7.3	4.7	6.5	7.1	3.5	4.4	6.1	5.8	4.4	3.5	3.5	7.9	22.0
17	3.7	S	2.8	3.2	3.4	4.8	6.4	4.7	4.9	5.4	3.3	2.5	3.5	5.0	6.4	7.1	2.5	2.6	2.9	5.3	4.1	2.5	2.3	1.9	4.0	7.1
18	2.1	S	4.4	3.1	2.5	2.2	2.9	2.5	6.1	3.9	4.2	9.6	8.5	9.7	6.3	6.1	4.4	4.6	9.9	7.6	7.9	9.5	7.2	5.6	5.7	9.9
19	4.3	S	4.7	3.6	15.3	12.1	10.6	6.5	10.8	15.3	19.0	14.7	16.0	7.9	1.9	3.9	2.8	5.1	8.2	7.6	6.4	8.6	13.6	8.4	9.0	19.0
20	9.5	S	5.2	8.5	11.5	16.1	6.2	10.9	14.1	10.0	9.6	14.2	11.1	3.1	4.7	4.7	3.3	14.9	16.9	14.2	11.1	9.4	12.3	11.7	10.1	16.9
21	9.5	S	9.1	6.9	9.6	7.2	9.1	17.7	22.6	17.7	15.3	9.9	8.8	1.8	5.2	8.2	10.2	4.4	1.0	2.7	5.7	4.2	2.8	3.6	8.4	22.6
22	2.4	S	11.7	5.1	4.1	7.9	8.2	16.1	13.4	3.8	3.5	4.4	3.5	4.0	3.6	4.7	5.1	4.5	2.6	2.3	9.1	3.6	3.9	5.8	5.8	16.1
23	3.6	S	2.0	2.3	4.5	3.5	6.2	2.3	2.3	3.8	6.7	3.6	4.2	1.0	1.3	2.2	2.1	5.6	1.9	2.3	2.4	6.0	2.0	4.5	3.3	6.7
24	4.3	S	9.4	9.7	6.6	5.0	3.7	4.0	4.8	6.0	16.7	12.6	9.6	10.6	10.7	12.0	2.5	1.6	2.4	2.8	3.1	9.4	7.7	7.8	7.1	16.7
25	6.3	S	8.7	5.5	12.2	15.8	4.3	8.2	16.6	11.4	23.4	22.4	13.5	9.8	7.6	6.3	4.4	8.6	10.1	10.2	15.4	14.4	9.3	6.1	10.9	23.4
26	3.1	S	3.2	2.1	1.8	1.2	1.0	1.2	2.5	1.6	6.3	10.8	3.0	2.6	2.1	7.2	2.6	3.8	5.8	3.0	3.2	3.5	3.2	3.3	3.4	10.8
27	4.5	S	5.2	6.7	7.0	7.1	8.4	10.2	10.2	12.0	7.4	4.1	4.8	5.3	4.7	4.5	4.3	6.4	11.0	11.5	22.6	20.8	13.0	2.9	8.5	22.6
28	4.9	S	2.0	3.8	4.2	8.1	2.9	10.1	7.2	8.7	2.8	4.7	3.8	6.3	9.1	9.8	5.8	9.2	11.3	22.8	10.1	7.0	10.7	9.6	7.6	22.8
29	12.5	S	21.1	20.7	20.1	19.8	16.9	17.1	19.1	21.2	20.6	11.0	4.0	6.2	11.1	5.1	4.9	4.3	27.6	4.5	1.7	8.4	7.5	9.2	12.8	27.6
NO.	29	-	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	29	29	29	29	662	100%
MEAN	9.1	-	9.3	8.8	10.6	10.5	10.7	10.6	11.5	11.7	11.7	9.6	7.7	6.7	5.5	7.2	6.6	6.7	9.4	9.9	10.1	9.7	9.9	9.4		
MAX	25.0	-	21.6	23.2	28.2	24.8	28.6	23.2	22.6	26.2	23.4	22.4	16.0	13.7	11.9	36.2	17.4	16.3	27.6	28.2	28.1	30.2	22.2	27.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	662
Maximum 1-HR Average	36.2 PPB
Maximum 24-HR Average	15.8 PPB
Operational Time	696 HRS
Operational Uptime	100.0 %
Monthly Calibration	5
Standard Deviation	6.1
Monthly Average	9.3 PPB

Lagoon NOx (ppb) – February 2024

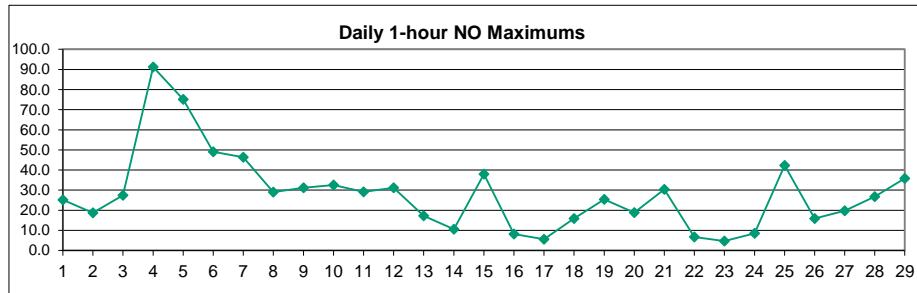
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.1	S	17.5	5.9	3.3	16.3	16.2	21.0	42.1	25.6	40.7	24.4	9.1	8.4	12.4	8.8	20.2	8.1	9.6	6.1	5.7	6.9	9.8	16.8	14.6	42.1
2	13.6	S	14.2	7.1	13.4	9.7	15.1	15.5	18.1	28.7	31.4	9.4	23.1	12.6	4.7	3.2	14.1	4.9	15.7	14.5	15.4	18.1	13.5	12.4	14.3	31.4
3	11.8	S	6.6	10.1	8.2	15.9	8.8	13.6	17.5	6.4	7.4	11.0	9.9	16.1	1.0	10.1	30.8	2.0	1.9	3.4	6.8	2.3	49.6	18.5	11.7	49.6
4	24.5	S	14.9	5.5	17.3	18.0	29.5	3.7	1.4	15.9	8.7	15.1	5.3	27.6	10.8	127.3	45.7	12.4	24.4	57.0	48.1	35.1	37.3	21.2	26.4	127.3
5	21.4	S	22.7	28.1	44.6	39.6	54.1	50.4	30.9	67.7	51.9	96.6	31.2	17.0	3.8	7.8	9.7	4.3	4.1	3.9	6.6	18.9	18.5	15.4	28.2	96.6
6	10.7	S	10.6	10.4	7.1	14.5	16.5	22.1	22.7	29.6	23.7	24.5	17.4	26.1	20.8	15.9	16.3	18.0	68.7	73.9	57.3	19.1	32.0	27.1	25.4	73.9
7	71.2	S	39.0	34.2	49.6	42.7	26.5	36.8	57.9	47.6	47.5	55.0	49.3	40.9	28.8	21.1	12.8	22.6	14.7	9.5	6.7	8.7	15.2	23.0	33.1	71.2
8	18.9	S	11.1	9.5	20.3	22.0	22.6	16.9	28.7	21.8	19.1	C	C	C	C	C	7.4	45.2	11.0	6.1	30.9	22.2	2.2	4.6	17.8	45.2
9	7.1	S	8.3	17.3	24.8	30.5	51.8	7.2	12.1	9.0	8.3	1.6	1.8	17.8	18.4	20.8	11.8	16.5	19.1	22.7	17.7	8.2	13.9	14.5	15.7	51.8
10	52.3	S	13.8	31.5	51.3	13.5	15.5	12.9	8.5	24.6	48.5	36.4	11.7	6.9	3.7	5.5	3.8	1.4	2.1	2.9	3.5	2.4	3.5	5.4	15.7	52.3
11	5.3	S	20.3	24.4	26.1	4.7	17.4	20.8	6.4	31.9	44.8	40.3	36.6	30.3	15.2	14.8	9.3	12.4	16.2	19.2	20.6	9.3	9.4	3.5	19.1	44.8
12	3.0	S	7.6	15.9	18.7	48.4	22.0	17.0	19.5	26.7	29.1	16.3	28.1	2.3	1.9	3.1	8.8	9.3	14.3	18.9	12.6	18.1	9.8	30.5	16.6	48.4
13	26.1	S	22.1	11.2	7.3	0.2	3.4	15.1	12.7	43.4	26.3	0.9	0.8	0.3	1.4	6.4	4.4	1.2	18.8	30.9	13.4	8.9	25.0	23.6	13.2	43.4
14	14.5	S	14.2	16.2	24.3	12.1	18.6	17.6	17.5	23.3	21.2	13.3	8.7	8.5	4.8	1.0	0.6	0.5	5.7	5.1	2.8	2.5	2.6	3.2	10.4	24.3
15	10.2	S	13.2	15.7	21.2	10.1	22.3	15.9	16.0	19.6	20.0	13.7	13.0	10.2	5.8	2.7	3.6	6.8	9.7	15.0	60.7	68.1	22.7	31.1	18.6	68.1
16	23.0	S	14.0	11.4	12.3	8.4	7.1	9.8	17.2	16.9	16.1	11.0	14.2	15.1	7.1	10.8	10.3	3.5	4.4	7.6	7.6	5.3	3.2	3.6	10.4	23.0
17	3.4	S	2.6	3.1	3.5	5.8	8.4	4.5	5.6	7.4	4.7	3.7	5.9	8.6	11.5	12.3	2.8	2.7	2.7	6.0	4.5	2.4	1.9	1.5	5.0	12.3
18	1.9	S	4.9	3.3	2.5	1.9	3.5	2.3	10.1	5.4	7.3	21.9	24.2	23.2	11.1	9.2	5.4	5.1	10.9	7.8	8.9	13.3	8.6	6.4	8.7	24.2
19	6.0	S	7.7	3.9	29.2	23.7	17.7	10.3	22.7	35.6	44.2	35.7	37.1	13.8	2.5	5.5	3.3	8.1	10.5	9.1	9.8	11.1	20.7	11.6	16.5	44.2
20	17.0	S	6.5	16.4	18.7	31.3	9.2	17.6	32.9	16.3	17.5	32.5	21.3	4.1	5.7	5.8	3.6	22.4	25.3	16.8	11.2	10.3	12.2	12.0	15.9	32.9
21	10.8	S	11.2	8.7	10.7	7.0	8.8	19.7	52.7	39.9	30.5	16.9	14.9	2.3	9.1	13.7	14.9	5.6	0.6	2.5	6.8	5.2	2.9	3.8	13.0	52.7
22	2.2	S	16.9	6.4	4.8	9.4	8.8	22.5	19.8	4.4	4.4	6.7	5.1	5.8	5.0	6.5	6.6	5.5	2.5	2.4	12.8	3.7	6.7	6.9	7.6	22.5
23	3.9	S	2.2	2.3	6.3	3.8	8.1	2.1	2.4	5.5	11.1	5.1	7.2	0.8	5.7	0.0	2.3	7.8	1.8	2.6	2.3	8.7	1.9	5.7	4.3	11.1
24	6.1	S	16.8	17.9	13.9	6.2	4.4	4.6	6.8	8.1	25.0	20.7	14.1	18.3	17.3	20.2	2.7	1.6	2.3	2.5	2.9	11.5	8.8	7.9	10.5	25.0
25	6.2	S	10.1	6.1	16.1	20.5	4.2	9.1	25.6	18.3	65.6	62.1	21.7	14.5	9.4	7.0	4.6	10.8	10.5	11.7	18.1	14.7	9.6	5.8	16.6	65.6
26	2.8	S	3.0	1.9	1.5	1.0	0.7	1.0	3.4	2.0	14.6	26.5	5.9	5.1	4.1	18.0	3.2	4.0	7.1	2.7	2.9	3.2	3.0	3.0	5.2	26.5
27	4.1	S	4.9	6.4	6.7	6.9	8.0	10.2	13.8	22.9	15.3	8.3	10.2	12.1	8.7	7.5	5.8	7.2	16.1	11.9	38.9	40.3	16.1	3.3	12.4	40.3
28	6.9	S	2.2	4.4	6.1	11.1	3.2	16.9	12.3	16.8	3.8	7.6	5.8	9.6	16.1	14.7	7.7	19.5	21.4	49.5	17.8	7.3	11.2	9.6	12.2	49.5
29	12.3	S	25.2	26.0	32.8	27.7	21.9	26.9	33.5	57.0	46.5	20.0	4.9	8.9	16.4	7.0	7.6	5.3	53.1	5.5	1.5	11.7	12.0	14.6	20.8	57.0
NO.	29	-	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	29	29	29	29	662	100%
MEAN	13.7	-	12.6	12.5	17.3	16.0	15.7	15.3	19.7	23.4	25.4	22.7	15.7	13.1	9.4	13.8	9.7	9.5	14.0	14.8	15.7	13.7	13.2	11.9		
MAX	71.2	-	39.0	34.2	51.3	48.4	54.1	50.4	57.9	67.7	65.6	96.6	49.3	40.9	28.8	127.3	45.7	45.2	68.7	73.9	60.7	68.1	49.6	31.1		



Number of Non-Zero Readings	661	Operational Time	696 HRS
Maximum 1-HR Average	127.3 PPB	Operational Uptime	100.0 %
Maximum 24-HR Average	33.1 PPB	Monthly Average	15.2 PPB
Monthly Calibration	5		
Standard Deviation	14.17		

Lagoon NO (ppb) – February 2024

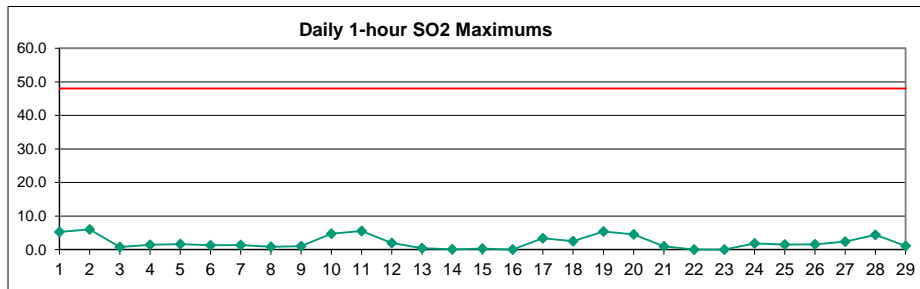
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.2	S	8.7	2.0	0.7	6.1	5.0	7.6	25.1	12.1	22.1	12.2	2.5	3.8	4.5	1.4	3.9	0.7	1.1	0.1	0.4	1.0	3.2	7.3	5.7	25.1
2	5.0	S	6.2	1.2	6.4	2.5	5.6	5.8	7.6	16.1	18.7	4.2	11.8	5.8	1.4	0.8	4.8	0.5	6.2	3.8	5.4	6.3	3.4	3.9	5.8	18.7
3	4.5	S	1.0	3.1	0.6	6.1	1.1	6.7	2.5	1.3	1.4	3.8	2.1	4.3	0.2	2.7	14.3	0.3	0.1	0.5	1.5	0.2	27.5	6.9	4.0	27.5
4	11.4	S	5.4	0.9	6.3	6.5	8.8	0.9	0.3	4.3	2.9	6.3	2.0	16.4	4.0	91.2	28.5	3.8	8.3	28.9	20.2	14.3	16.7	5.1	12.8	91.2
5	3.7	S	1.2	5.1	16.5	14.9	25.6	27.4	10.5	45.2	34.9	75.1	18.8	9.2	1.1	1.9	1.9	0.3	0.4	0.1	0.2	0.3	0.2	0.9	12.8	75.1
6	0.3	S	0.9	1.1	0.3	2.1	0.3	3.1	5.4	11.0	10.7	12.6	8.4	14.5	10.7	7.5	6.4	4.3	47.1	49.1	34.3	2.7	10.8	6.7	10.9	49.1
7	46.3	S	17.6	15.5	27.9	20.8	8.2	16.1	35.6	28.7	30.1	39.8	34.8	27.4	17.2	10.6	3.3	8.3	4.1	1.5	0.3	1.3	2.2	4.5	17.5	46.3
8	4.9	S	0.8	0.3	6.0	5.1	5.4	4.6	14.7	10.5	9.0	C	C	C	C	C	1.7	29.0	2.9	0.0	18.4	12.1	0.0	0.8	7.0	29.0
9	0.9	S	1.1	6.1	9.0	12.6	31.2	2.0	3.3	2.3	3.3	0.5	0.7	10.1	9.3	9.4	3.1	2.0	1.7	4.1	0.9	0.3	5.3	5.7	5.4	31.2
10	32.5	S	5.5	19.3	32.3	5.4	7.6	4.6	3.0	13.3	30.8	21.8	5.5	2.1	1.0	1.5	0.8	0.1	0.1	0.5	0.5	0.1	0.4	1.4	8.3	32.5
11	1.6	S	9.2	12.9	13.0	1.2	8.2	8.2	1.7	18.9	29.1	23.6	22.0	18.6	7.2	6.5	2.0	3.9	5.4	7.2	9.4	2.9	3.3	0.5	9.4	29.1
12	0.5	S	2.4	6.6	9.0	31.2	10.0	7.5	9.4	15.4	18.0	9.3	15.3	0.8	0.5	1.1	2.7	1.1	1.4	4.3	0.7	2.3	0.0	10.4	7.0	31.2
13	7.6	S	8.6	1.7	1.4	0.0	0.0	4.2	0.9	17.3	10.2	0.1	0.0	0.0	0.1	2.2	0.8	0.0	2.6	8.4	0.4	0.0	4.8	7.6	3.4	17.3
14	0.9	S	3.2	6.4	10.6	2.1	6.2	4.0	4.6	10.4	10.3	7.0	4.5	3.7	1.5	0.1	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	3.3	10.6
15	2.1	S	1.4	2.3	5.6	0.3	5.6	1.5	2.6	9.3	8.3	6.9	6.8	5.1	2.4	0.7	0.5	0.4	0.0	0.9	34.5	38.0	2.6	3.7	6.2	38.0
16	1.2	S	0.3	0.2	1.6	0.5	0.0	1.4	5.9	7.6	7.4	5.2	7.7	8.2	2.8	4.5	3.5	0.2	0.2	1.7	2.1	1.1	0.0	0.3	2.8	8.2
17	0.0	S	0.0	0.1	0.2	1.3	2.2	0.0	0.9	2.3	1.6	1.3	2.6	4.0	5.4	5.6	0.6	0.4	0.0	1.0	0.7	0.1	0.0	0.0	1.3	5.6
18	0.0	S	0.7	0.4	0.1	0.0	0.8	0.0	4.2	1.7	3.4	12.5	15.9	13.8	5.2	3.5	1.3	0.8	1.4	0.4	1.2	4.0	1.6	1.0	3.2	15.9
19	1.8	S	3.2	0.5	14.1	11.8	7.4	4.0	12.1	20.5	25.4	21.2	21.4	6.2	0.8	1.9	0.7	3.2	2.6	1.7	3.6	2.8	7.3	3.5	7.7	25.4
20	7.8	S	1.5	8.1	7.5	15.5	3.2	7.0	18.9	6.6	8.2	18.6	10.5	1.2	1.2	1.3	0.5	7.7	8.6	2.9	0.3	1.2	0.1	0.7	6.1	18.9
21	1.6	S	2.5	2.1	1.4	0.1	0.0	2.3	30.3	22.4	15.5	7.4	6.5	0.7	4.2	5.8	4.9	1.5	0.0	0.0	1.4	1.3	0.3	0.5	4.9	30.3
22	0.0	S	5.4	1.6	1.0	1.7	0.8	6.7	6.7	0.8	1.1	2.5	1.8	2.0	1.6	2.0	1.7	1.1	0.0	0.3	3.9	0.2	2.9	1.3	2.1	6.7
23	0.5	S	0.4	0.2	2.0	0.5	2.2	0.0	0.3	1.9	4.7	1.7	3.2	0.0	4.5	0.0	0.4	2.4	0.0	0.5	0.1	2.9	0.1	1.4	1.3	4.7
24	1.9	S	7.7	8.4	7.6	1.4	0.8	0.8	2.2	2.3	8.6	8.4	4.8	7.8	6.8	8.4	0.3	0.2	0.0	0.0	0.0	2.3	1.2	0.3	3.6	8.6
25	0.0	S	1.6	0.8	4.1	5.0	0.1	1.1	9.3	7.2	42.3	39.7	8.5	4.9	2.1	1.0	0.3	2.5	0.8	1.8	2.9	0.5	0.5	0.0	6.0	42.3
26	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	8.5	15.9	3.1	2.7	2.1	11.0	0.8	0.3	1.5	0.0	0.0	0.0	0.0	0.0	2.1	15.9
27	0.0	S	0.0	0.0	0.0	0.0	0.0	0.3	3.9	11.2	8.2	4.4	5.8	7.0	4.4	3.3	1.7	1.0	5.3	0.6	16.4	19.7	3.3	0.6	4.2	19.7
28	2.2	S	0.3	0.7	2.0	3.2	0.4	7.1	5.4	8.3	1.2	3.1	2.2	3.5	7.2	5.3	2.1	10.6	10.3	26.8	7.9	0.5	0.7	0.2	4.8	26.8
29	0.0	S	4.3	5.5	12.9	8.2	5.3	10.0	14.6	35.8	26.0	9.2	1.1	2.9	5.6	2.1	2.8	1.2	25.5	1.2	0.0	3.4	4.6	5.6	8.2	35.8
NO.	29	-	29	29	29	29	29	29	29	29	29	28	28	28	28	28	29	29	29	29	29	29	29	29	662	100%
MEAN	4.8	-	3.5	3.9	6.9	5.7	5.2	5.0	8.4	11.9	13.9	13.4	8.2	6.7	4.1	6.9	3.3	3.0	4.8	5.1	5.8	4.2	3.6	2.8		
MAX	46.3	-	17.6	19.3	32.3	31.2	31.2	27.4	35.6	45.2	42.3	75.1	34.8	27.4	17.2	91.2	28.5	29.0	47.1	49.1	34.5	38.0	27.5	10.4		



Number of Non-Zero Readings	610	Operational Time	696 HRS
Maximum 1-HR Average	91.2 PPB	Operational Uptime	100.0 %
Maximum 24-HR Average	17.5 PPB	Monthly Average	6.1 PPB
Monthly Calibration	5		
Standard Deviation	9.25		

Lagoon SO₂ (ppb) – February 2024

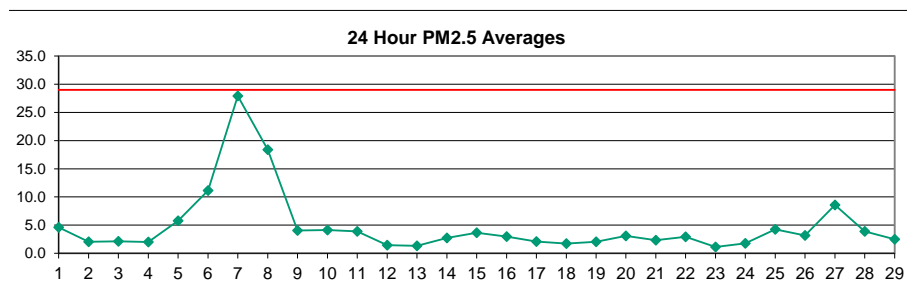
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.2	S	0.6	0.3	0.5	3.2	2.0	1.8	5.3	2.9	5.2	4.5	0.9	0.6	1.6	0.4	0.6	0.5	0.8	0.6	0.7	0.6	1.5	3.8	1.7	5.3	
2	2.4	S	3.0	1.1	1.6	1.3	2.2	2.0	1.9	3.2	5.3	2.1	6.0	2.7	0.6	0.6	0.6	0.5	1.2	0.6	1.1	1.3	1.2	1.2	1.9	6.0	
3	0.7	S	0.2	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.1	0.2	0.7	
4	0.0	S	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	1.5	0.5	0.1	0.4	1.1	0.9	0.7	0.7	0.2	0.3	1.5	
5	0.3	S	0.3	0.7	0.6	0.7	0.9	0.8	0.4	0.9	0.7	1.6	0.6	0.4	0.2	0.1	0.2	0.8	0.9	0.4	0.5	0.3	0.3	0.3	0.6	1.6	
6	0.4	S	0.0	0.2	0.1	0.1	0.1	0.3	0.3	0.4	0.4	0.5	0.3	0.6	0.5	0.4	0.4	0.3	1.3	1.3	1.2	0.3	0.4	0.4	0.4	1.3	
7	1.4	S	0.5	0.4	1.0	0.8	0.5	0.6	0.8	0.9	0.8	1.1	0.8	0.7	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.5	0.6	1.4	
8	0.3	S	0.0	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.3	C	C	C	C	0.5	0.0	0.7	0.7	0.9	0.7	0.4	0.0	0.0	0.3	0.9	
9	0.1	S	0.0	0.1	0.2	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.2	1.0	
10	3.4	S	0.6	1.8	3.0	0.7	0.3	0.4	0.2	1.2	4.7	4.1	1.2	0.4	0.3	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.0	4.7	
11	0.2	S	1.4	2.5	2.9	0.4	1.1	1.7	0.5	3.0	5.3	5.6	5.5	4.1	1.9	1.3	0.4	0.3	0.4	0.5	0.7	0.3	0.0	0.0	1.7	5.6	
12	0.0	S	0.1	1.1	1.1	1.6	1.1	1.0	1.1	1.4	1.9	1.0	2.0	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.6	0.5	0.0	0.2	0.7	2.0	
13	0.4	S	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
14	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
15	0.1	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.3
16	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	3.4	0.3	0.0	0.0	0.4	1.8	2.0	0.0	0.0	0.6	3.4	
18	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.1	2.5	0.9	0.7	0.2	0.0	0.5	0.1	0.1	0.3	0.1	0.2	0.4	2.5	
19	0.3	S	0.1	0.0	1.9	1.5	0.5	0.3	1.2	3.4	4.5	4.9	5.4	1.3	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.3	1.5	0.8	1.3	5.4	
20	1.4	S	0.3	0.9	1.8	2.9	0.8	0.9	0.3	0.3	1.2	4.5	1.4	0.2	0.2	0.1	0.0	0.2	0.1	0.1	0.1	0.4	0.3	0.1	0.8	4.5	
21	0.4	S	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	0.5	0.1	0.0	0.9	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	
22	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	Y	Y	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	0.4	0.3	0.3	0.2	0.5	0.2	0.4	-	-	
24	0.7	S	1.8	1.8	1.7	0.8	0.3	0.2	0.1	0.3	0.4	0.4	0.3	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.5	1.8	
25	0.2	S	0.1	0.3	0.5	0.4	0.2	0.3	0.7	0.5	1.4	1.5	0.7	0.7	0.8	0.6	0.6	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.6	1.5	
26	0.5	S	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.4	1.6	1.6	1.2	1.4	0.5	1.6	
27	1.0	S	1.1	1.8	2.4	1.6	0.9	0.6	0.5	0.8	1.0	0.8	1.0	1.0	0.9	1.5	0.7	0.4	0.4	0.3	0.5	0.4	0.3	0.4	0.9	2.4	
28	0.2	S	0.2	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.5	0.5	0.5	0.4	1.8	2.1	4.4	1.8	0.5	0.4	0.3	0.8	4.4	
29	0.2	S	0.3	0.5	0.7	0.6	0.5	0.6	0.7	1.1	1.0	0.8	0.7	0.6	0.8	0.5	0.4	0.3	0.9	0.5	0.4	0.4	0.3	0.4	0.6	1.1	
NO.	29	-	29	29	29	29	29	29	29	29	29	27	26	26	26	28	28	29	29	29	29	29	29	29	654	99%	
MEAN	0.5	-	0.4	0.5	0.7	0.6	0.5	0.4	0.5	0.7	1.2	1.3	1.1	0.7	0.6	0.5	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.6	1.5	
MAX	3.4	-	3.0	2.5	3.0	3.2	2.2	2.0	5.3	3.4	5.3	5.6	6.0	4.1	3.3	3.4	0.7	1.8	2.1	4.4	1.8	2.0	1.5	3.8	0.6	1.1	



Number of 1HR Exceedences	0
Number of Non-Zero Readings	472
Maximum 1-HR Average	6.0 PPB
Maximum 24-HR Average	1.9 PPB
Monthly Calibration	4
Standard Deviation	0.946
Operational Time	687 HRS
Operational Uptime	98.7 %
Monthly Average	0.6 PPB

Lagoon PM_{2.5} (µg/m³) – February 2024

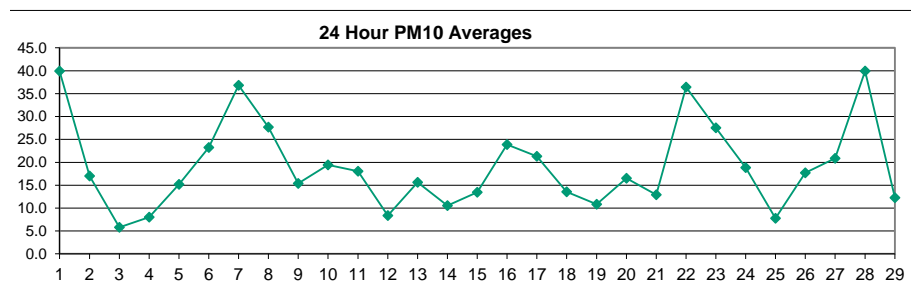
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.9	0.6	2.6	5.2	7.9	6.8	3.6	1.9	1.9	0.8	4.5	3.7	7.8	6.4	5.3	11.7	14.9	9.9	5.0	4.0	3.5	1.3	0.3	4.6	14.9
2	2.6	3.2	0.9	0.0	0.0	0.0	0.0	0.2	2.5	2.7	2.3	2.7	2.1	1.3	5.0	4.1	1.0	4.2	4.6	2.4	2.1	1.7	2.3	2.0	2.1	5.0
3	1.1	1.7	3.2	2.3	1.4	2.4	2.2	2.2	2.7	6.7	4.3	0.7	2.1	2.6	0.1	0.0	1.8	4.5	3.1	0.0	0.0	0.2	2.0	4.4	2.2	6.7
4	5.7	5.7	3.9	4.5	2.7	0.0	0.0	1.3	0.0	0.5	0.0	0.0	1.2	0.0	0.0	0.0	1.5	2.7	0.2	0.4	4.9	4.3	3.2	6.0	2.0	6.0
5	4.1	1.0	0.0	4.3	4.8	5.9	11.8	14.5	9.0	9.5	10.9	12.4	13.1	8.1	2.8	1.2	1.7	5.0	3.1	0.4	1.4	1.1	4.9	7.6	5.8	14.5
6	8.1	9.0	5.2	5.4	8.8	13.4	13.1	12.1	11.8	7.5	14.0	10.5	10.7	7.5	5.1	4.1	2.3	4.3	6.3	12.3	23.3	22.1	20.2	30.5	11.1	30.5
7	39.5	42.1	39.3	19.1	15.4	48.1	44.7	38.8	40.2	40.5	42.9	33.9	35.3	30.2	30.3	22.2	13.1	13.2	17.8	16.4	11.9	10.1	11.0	13.4	27.9	48.1
8	16.4	12.2	10.9	7.6	6.3	19.9	29.4	26.5	20.9	23.9	22.8	23.2	26.4	19.6	20.7	35.7	X	X	10.6	14.8	13.8	16.4	15.9	10.2	18.4	35.7
9	7.2	6.5	3.6	5.5	4.0	3.2	4.0	3.5	3.1	4.9	3.9	3.9	3.3	0.5	0.6	2.7	4.9	3.7	6.6	5.4	3.8	4.2	5.8	2.1	4.0	7.2
10	3.1	11.4	6.7	4.0	9.5	12.9	7.0	3.8	2.6	0.0	4.3	12.1	7.6	3.1	3.3	2.5	0.4	0.0	0.6	1.8	0.8	0.9	0.4	0.0	4.1	12.9
11	2.6	5.0	3.7	2.2	2.1	2.7	4.2	3.1	2.9	3.2	6.0	6.7	5.3	3.8	2.6	0.6	0.8	6.3	7.0	5.8	6.0	5.8	3.6	1.5	3.9	7.0
12	0.0	0.0	0.0	0.1	0.0	0.4	2.6	3.8	2.2	3.0	3.9	5.6	3.9	3.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.5	2.3	0.6	1.5	5.6
13	1.9	1.0	2.6	1.4	0.0	1.3	1.2	0.2	0.4	4.0	4.6	1.3	0.0	0.0	0.0	0.7	1.5	1.9	0.0	2.0	4.0	1.8	0.0	0.6	1.3	4.6
14	0.3	1.0	1.6	5.7	4.1	0.3	0.0	0.3	1.1	3.5	3.8	3.8	3.2	5.3	4.5	2.7	6.1	5.5	2.0	1.8	3.0	2.3	1.4	2.5	2.7	6.1
15	2.1	0.5	1.5	2.2	2.6	3.2	3.2	4.1	5.7	6.7	5.0	2.1	3.8	5.6	3.5	0.6	2.9	4.5	3.3	3.5	3.4	4.9	7.2	6.0	3.7	7.2
16	4.2	5.5	5.0	4.4	5.0	3.6	0.0	1.1	0.5	0.7	2.0	0.7	1.3	3.4	6.9	4.0	2.2	5.9	3.7	4.2	3.4	0.0	3.0	0.3	3.0	6.9
17	0.0	2.2	4.0	3.3	0.8	1.5	5.5	2.6	2.2	2.6	1.0	1.7	0.8	2.3	0.7	0.0	2.7	3.1	0.0	0.0	2.8	3.4	3.7	2.7	2.1	5.5
18	0.0	0.9	2.7	3.5	0.7	1.6	1.8	0.4	1.5	4.6	4.0	2.2	2.3	2.1	2.4	2.8	1.7	0.3	0.0	1.2	0.3	0.8	2.0	1.8	1.7	4.6
19	0.6	0.0	1.5	0.7	1.1	3.3	3.9	4.5	0.7	0.0	4.3	3.9	2.8	1.4	2.9	2.9	2.5	2.6	1.4	0.5	0.7	1.8	4.2	1.5	2.1	4.5
20	0.0	0.0	3.3	2.1	0.3	2.5	4.5	4.8	3.5	4.1	1.4	5.4	8.7	7.2	4.5	3.7	1.6	0.0	1.8	5.3	4.7	2.9	1.5	0.4	3.1	8.7
21	3.4	3.3	2.7	1.5	0.0	0.9	4.1	2.9	3.1	3.9	4.0	3.7	4.5	8.0	2.2	0.0	3.2	2.9	0.0	0.0	0.5	1.8	0.0	0.0	2.4	8.0
22	0.0	0.2	0.7	0.0	0.0	0.0	1.0	1.8	4.0	7.4	2.1	2.2	5.1	6.7	5.4	5.8	7.1	7.8	2.9	2.5	3.1	2.3	2.3	0.0	2.9	7.8
23	0.0	0.0	0.0	0.0	0.2	0.0	0.8	1.8	0.8	0.0	2.5	5.6	7.5	C	C	C	C	2.9	0.2	0.0	0.0	0.0	0.0	0.0	1.1	7.5
24	0.0	0.6	0.0	1.6	2.7	0.0	0.0	1.4	2.2	4.1	3.6	3.4	1.8	0.4	0.4	0.0	4.4	4.6	2.1	0.9	2.2	1.8	1.7	2.9	1.8	4.6
25	2.5	1.7	4.5	5.6	3.8	2.6	3.1	3.5	4.4	11.2	8.7	7.4	11.3	10.7	6.5	1.6	0.0	0.0	1.3	2.3	1.8	2.2	2.6	2.9	4.3	11.3
26	6.0	4.2	2.9	5.6	5.8	4.4	2.9	2.5	0.8	0.9	1.8	2.1	5.3	5.6	3.7	0.3	0.0	2.0	2.5	5.3	4.0	2.2	2.6	3.9	3.2	6.0
27	4.8	6.2	10.5	10.9	7.3	8.7	7.0	13.3	8.7	12.4	8.3	7.4	9.0	7.7	6.4	5.7	7.3	8.5	7.8	7.5	8.7	9.8	12.6	9.6	8.6	13.3
28	5.6	3.1	2.8	3.4	4.0	4.4	4.3	2.6	0.0	1.1	0.8	0.0	0.0	1.6	9.1	6.0	2.0	5.2	3.1	3.4	12.7	8.7	4.8	5.0	3.9	12.7
29	4.4	4.1	5.8	7.7	6.2	4.8	2.9	2.7	3.1	2.4	2.1	1.1	0.9	0.3	0.2	0.7	1.8	0.0	0.0	0.7	2.2	1.2	2.8	2.5	2.5	7.7
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	28	28	28	27	28	29	29	29	29	29	29	690	100%
MEAN	4.3	4.6	4.5	4.0	3.6	5.5	5.9	5.6	4.9	6.0	6.1	5.9	6.3	5.6	4.9	4.1	3.2	4.2	3.5	3.7	4.5	4.1	4.3	4.2		
MAX	39.5	42.1	39.3	19.1	15.4	48.1	44.7	38.8	40.2	40.5	42.9	33.9	35.3	30.2	30.3	35.7	13.1	14.9	17.8	16.4	23.3	22.1	20.2	30.5		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	608
Maximum 1-HR Average	48.1 UG/M3
Maximum 24-HR Average	27.9 UG/M3
Monthly Calibration	4
Standard Deviation	6.662
Operational Time	694 HRS
Operational Uptime	99.7 %
Monthly Average	4.7 UG/M3

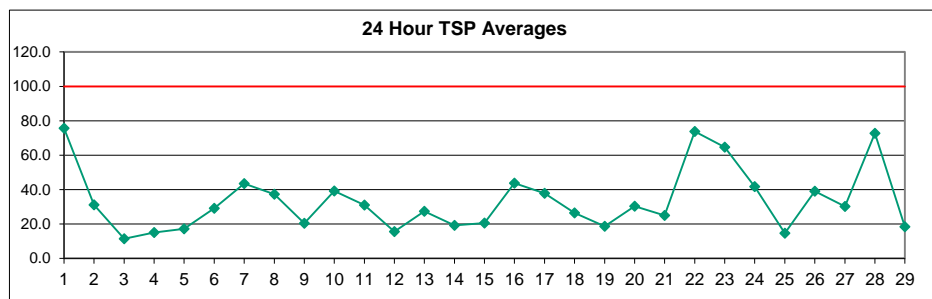
Lagoon PM₁₀ (µg/m³) – February 2024

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.3	3.0	26.1	37.5	34.9	39.0	13.8	43.5	45.2	38.8	25.1	52.4	47.2	87.0	56.0	64.4	112.8	95.0	53.1	20.5	19.4	17.3	14.4	7.3	39.9	112.8
2	10.5	6.0	9.2	6.4	9.2	5.1	2.6	8.5	8.6	6.0	14.2	17.3	11.2	31.8	63.1	39.4	13.3	37.1	39.4	20.7	13.9	13.6	10.1	10.5	17.0	63.1
3	5.8	5.7	1.5	2.8	6.5	8.1	9.2	6.7	4.1	6.1	5.2	7.2	4.1	6.0	6.9	4.0	2.2	11.0	8.5	3.8	2.8	1.6	5.3	14.2	5.8	14.2
4	6.8	5.5	6.3	9.1	6.9	5.6	10.5	7.4	4.0	5.1	6.9	8.7	9.7	13.1	11.1	9.6	13.8	7.8	6.5	6.3	12.1	6.7	4.2	8.7	8.0	13.8
5	10.1	16.4	5.9	8.5	17.7	12.0	19.8	28.0	22.4	17.1	22.6	21.0	21.5	21.6	13.1	9.0	11.4	9.4	7.4	3.8	5.1	10.7	27.8	22.4	15.2	28.0
6	11.8	17.4	22.4	21.5	18.8	16.1	19.4	29.9	22.8	19.4	32.7	18.8	23.9	12.8	17.4	18.2	14.2	13.1	18.5	40.7	36.1	41.3	30.0	40.1	23.2	41.3
7	49.5	49.7	62.6	36.0	21.8	68.8	56.8	49.9	51.9	64.7	60.7	42.9	40.8	42.4	29.9	27.9	15.7	17.4	24.5	15.6	11.1	9.6	9.8	24.2	36.8	68.8
8	25.3	14.2	16.2	12.7	12.0	30.3	48.1	46.2	32.4	27.7	36.6	24.7	37.5	28.9	32.0	54.1	X	X	24.5	14.3	20.9	26.5	23.7	20.6	27.7	54.1
9	15.0	18.9	14.1	15.5	16.5	14.0	16.9	21.1	8.6	9.4	10.1	12.3	9.7	10.2	9.0	29.2	20.2	15.2	15.6	26.6	16.3	15.1	15.4	14.6	15.4	29.2
10	9.7	15.5	12.0	11.2	22.5	29.2	10.8	8.1	24.1	9.4	13.9	37.3	49.0	57.7	47.4	12.2	14.3	6.5	14.3	21.4	4.0	5.4	9.6	20.9	19.4	57.7
11	26.0	32.9	31.7	30.0	27.8	10.8	5.5	8.1	12.2	10.5	13.1	13.4	24.8	13.6	16.8	11.5	19.9	52.1	31.4	14.6	9.4	7.7	5.6	3.5	18.0	52.1
12	3.3	3.2	1.9	3.0	8.9	9.7	9.5	4.8	1.0	11.0	10.8	13.1	16.5	17.6	7.6	4.8	1.3	6.3	18.5	6.8	9.3	7.3	11.2	13.9	8.4	18.5
13	24.4	16.5	41.5	19.4	12.2	9.7	5.4	7.7	9.3	6.1	10.3	7.1	9.4	31.4	45.2	15.1	3.8	25.9	6.0	25.3	15.0	12.3	6.4	9.2	15.6	45.2
14	6.4	9.1	7.4	7.1	9.6	9.8	12.1	11.7	11.3	15.6	14.4	18.7	16.6	14.7	12.4	9.1	7.0	10.2	8.1	8.3	10.7	7.5	8.8	6.7	10.6	18.7
15	4.4	9.5	8.2	9.7	7.6	9.0	9.2	12.2	17.5	12.6	10.0	21.9	15.3	15.5	13.0	10.3	10.6	15.0	17.2	18.3	16.8	20.6	21.9	16.4	13.5	21.9
16	20.2	6.7	10.9	13.0	7.8	28.8	13.5	16.2	13.4	33.1	27.6	33.9	39.2	36.6	32.5	34.8	31.7	28.8	14.2	13.8	22.1	34.2	36.1	23.7	23.9	39.2
17	25.5	23.0	30.6	15.0	25.0	24.1	15.0	14.9	18.6	28.8	28.2	20.0	25.5	36.5	37.8	22.9	12.7	11.6	6.6	9.3	18.0	14.8	22.6	24.1	21.3	37.8
18	16.4	20.8	24.8	24.9	12.4	8.4	6.7	6.9	9.9	8.1	7.1	15.9	17.1	14.8	17.3	12.4	17.6	22.3	5.6	17.7	15.7	9.3	6.4	6.4	13.5	24.9
19	10.6	5.3	8.5	6.4	4.4	19.7	15.9	13.4	7.9	18.8	17.1	20.4	16.9	12.0	9.2	3.3	3.7	8.8	9.3	7.5	17.9	6.6	8.2	8.0	10.8	20.4
20	6.6	7.8	8.6	6.1	7.3	11.1	13.5	9.0	14.5	10.9	14.9	34.4	35.4	37.8	8.8	26.7	20.5	0.5	25.4	24.6	28.1	27.8	5.2	11.2	16.5	37.8
21	6.5	3.9	5.9	6.3	3.2	4.4	3.9	4.1	3.7	7.1	33.2	22.7	27.5	27.2	5.1	39.3	39.7	32.6	9.3	7.0	5.4	6.7	4.5	1.0	12.9	39.7
22	0.0	0.0	3.2	1.2	2.2	4.8	12.4	42.4	62.2	72.2	24.7	57.7	81.9	94.2	60.9	77.1	82.4	34.9	30.0	26.5	35.1	52.5	9.3	6.4	36.4	94.2
23	4.1	1.2	1.9	7.6	4.6	13.9	7.2	19.2	17.2	51.5	94.0	200.4	C	C	C	C	C	33.4	20.5	7.8	8.0	12.3	11.6	7.0	27.5	200.4
24	15.0	41.2	52.6	54.0	32.1	22.1	16.8	3.2	9.1	9.4	13.5	26.3	34.9	27.3	18.5	21.8	14.3	5.9	10.1	6.3	2.5	1.1	7.1	7.0	18.8	54.0
25	5.3	7.7	5.0	5.2	7.5	8.3	15.1	3.7	5.4	10.0	11.0	14.8	17.3	18.3	11.1	8.1	6.0	3.9	4.1	2.3	1.5	2.2	7.3	6.0	7.8	18.3
26	6.9	12.5	13.4	26.4	26.2	11.1	16.3	30.5	14.6	16.7	19.2	31.4	33.1	21.7	23.1	16.1	9.3	13.3	15.4	18.3	8.1	19.3	10.1	12.4	17.7	33.1
27	8.6	12.6	21.0	25.3	6.4	29.3	21.1	22.8	13.5	10.4	13.9	15.6	12.8	12.0	14.4	13.7	18.4	14.4	12.0	25.1	15.8	50.7	48.7	62.5	20.9	62.5
28	38.9	46.9	55.8	116.9	92.8	124.3	96.0	33.3	18.3	16.5	6.4	5.1	5.4	3.5	25.5	40.6	47.8	50.8	14.0	13.1	23.9	11.1	34.8	36.4	39.9	124.3
29	5.1	23.2	25.4	30.5	19.0	14.5	9.9	16.1	10.8	13.5	13.8	8.9	6.3	5.8	6.8	8.6	12.9	11.2	7.0	7.1	6.9	7.2	12.3	12.0	12.3	30.5
NO.	29	29	29	29	29	29	29	29	29	29	29	29	28	28	28	28	27	28	29	29	29	29	29	29	689	100%
MEAN	13.2	15.0	18.4	19.6	16.7	20.8	17.7	18.3	17.1	19.5	21.1	28.4	24.7	26.9	23.3	23.0	21.4	21.2	16.4	15.0	14.2	15.8	14.8	15.8		
MAX	49.5	49.7	62.6	116.9	92.8	124.3	96.0	49.9	62.2	72.2	94.0	200.4	81.9	94.2	63.1	77.1	112.8	95.0	53.1	40.7	36.1	52.5	48.7	62.5		



Lagoon TSP ($\mu\text{g}/\text{m}^3$) – February 2024

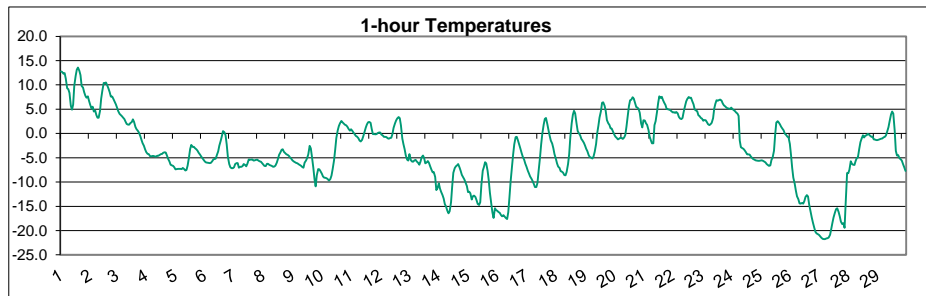
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	12.0	20.4	39.6	70.9	59.5	75.8	32.1	73.2	86.3	68.1	48.2	78.5	103.5	180.9	120.6	129.0	205.6	179.6	83.9	42.3	29.7	31.7	23.1	20.7	75.6	205.6	
2	32.1	14.6	10.8	8.1	12.8	8.2	9.3	16.9	13.3	15.3	16.9	32.1	29.4	46.3	111.6	72.0	22.8	70.4	83.3	38.5	23.4	22.0	19.7	16.6	31.1	111.6	
3	14.9	13.5	14.0	14.6	10.9	16.4	10.5	10.1	9.5	10.7	11.7	5.9	11.1	14.0	7.9	10.7	11.3	13.2	7.4	5.5	7.2	14.1	9.8	19.1	11.4	19.1	
4	12.7	13.9	11.9	18.4	29.5	20.2	17.6	7.4	13.7	8.8	11.7	25.3	17.3	24.3	19.6	15.8	27.8	12.6	16.6	5.5	12.8	9.3	5.4	4.2	15.1	29.5	
5	9.4	8.8	5.5	12.1	24.0	20.0	28.9	30.2	18.7	18.0	24.5	27.5	37.4	18.3	17.2	13.1	10.1	9.3	6.4	9.7	9.7	15.5	16.8	22.1	17.2	37.4	
6	17.0	18.0	22.3	19.0	17.1	20.4	26.5	21.7	28.9	15.8	52.7	19.5	24.1	15.7	23.8	26.5	17.0	21.9	28.7	59.8	58.2	59.0	36.2	50.8	29.2	59.8	
7	49.5	63.5	77.2	39.4	24.2	69.8	62.0	52.5	57.6	65.5	69.4	49.1	51.3	59.8	45.3	38.5	23.5	18.8	25.4	19.7	17.6	18.9	20.9	24.4	43.5	77.2	
8	32.2	22.7	14.5	16.0	16.1	39.2	58.2	53.5	37.1	40.3	40.4	28.5	39.8	33.4	53.8	87.4	X	X	44.0	22.4	27.0	37.0	31.8	46.6	37.3	87.4	
9	27.6	28.5	10.9	17.2	22.4	29.0	12.4	16.5	22.0	17.4	12.9	11.0	13.4	13.2	11.0	34.3	29.7	25.4	27.0	37.5	13.0	17.0	22.5	19.3	20.5	37.5	
10	13.6	38.6	27.3	23.1	29.0	47.0	31.8	27.7	33.8	28.1	35.4	78.2	89.2	119.6	122.8	32.6	27.4	14.4	19.5	33.4	9.1	13.4	18.3	27.1	39.2	122.8	
11	50.1	77.7	55.2	64.9	64.4	21.2	4.5	11.1	16.7	8.7	14.8	26.2	36.5	29.2	24.8	16.5	31.5	76.8	56.7	16.6	10.2	9.6	14.0	7.9	31.1	77.7	
12	5.8	7.9	5.9	9.7	10.6	21.9	12.7	6.8	10.2	18.0	23.3	17.5	16.8	21.5	6.2	5.6	8.0	16.3	45.0	29.2	16.6	15.7	22.0	20.0	15.5	45.0	
13	37.9	29.2	74.7	22.7	0.0	18.1	19.0	8.0	10.2	11.5	19.6	22.2	9.1	46.2	112.1	23.1	13.1	45.9	15.6	39.7	29.7	24.9	12.0	14.1	27.4	112.1	
14	10.9	25.7	12.6	16.4	11.7	19.3	12.9	12.7	22.7	29.5	26.0	22.9	28.3	27.0	23.7	18.4	6.7	7.7	9.2	23.9	24.1	22.9	21.9	25.4	19.3	29.5	
15	12.5	29.3	19.7	18.0	11.5	19.5	13.6	20.3	27.2	28.9	18.6	33.5	28.7	30.7	18.7	9.5	13.2	27.7	29.3	21.4	13.3	24.3	14.5	9.3	20.5	33.5	
16	28.1	30.2	18.4	15.7	8.2	31.5	25.3	29.1	24.1	43.5	52.6	70.0	74.2	81.5	59.1	59.0	65.3	54.9	19.8	32.5	27.2	78.6	74.5	48.4	43.8	81.5	
17	62.6	52.4	47.3	26.0	31.9	43.4	23.4	21.8	32.6	36.2	50.5	42.3	53.9	64.4	71.7	34.8	20.0	19.8	5.3	15.3	32.2	31.8	31.6	56.3	37.8	71.7	
18	40.1	43.9	39.5	45.0	23.1	11.2	11.3	9.1	7.1	21.1	10.2	21.6	46.5	31.3	32.3	32.6	42.9	46.2	21.6	24.7	20.4	17.1	20.6	15.9	26.5	46.5	
19	4.0	26.4	9.7	9.3	14.8	27.8	19.5	13.1	17.1	31.6	32.6	37.3	30.7	26.0	20.3	12.3	8.8	13.2	22.7	22.1	13.0	14.6	11.2	11.7	18.7	37.3	
20	12.2	22.1	17.4	5.7	4.9	16.4	17.9	14.3	26.7	30.7	35.1	47.6	59.1	66.5	23.2	39.3	46.4	13.1	56.6	43.0	43.7	48.8	16.0	23.0	30.4	66.5	
21	15.0	22.1	3.7	8.6	5.3	14.5	6.3	8.8	13.2	28.1	44.6	32.3	48.6	57.4	12.6	73.6	64.6	70.1	14.7	6.4	12.5	20.8	7.0	8.7	25.0	73.6	
22	9.4	7.1	10.8	7.3	25.0	19.5	26.9	75.3	135.9	150.0	54.0	119.9	167.7	179.0	112.8	140.6	151.2	73.4	55.6	49.4	69.2	101.7	21.6	7.2	73.8	179.0	
23	10.1	8.5	5.4	9.6	7.7	15.7	13.6	35.6	46.6	100.0	173.4	422.8	203.9	85.9	C	C	C	63.1	48.3	18.9	22.9	29.0	27.1	11.0	64.7	422.8	
24	31.3	85.7	103.6	127.7	65.7	36.0	37.0	13.3	16.8	2.6	29.0	43.5	60.6	84.7	61.5	60.9	45.3	29.7	10.9	10.4	10.3	7.6	11.1	17.8	41.8	127.7	
25	11.5	21.7	7.9	6.0	11.4	18.2	22.4	11.6	9.9	15.3	10.3	31.6	30.8	36.5	19.7	10.5	5.6	8.5	11.2	11.6	9.2	10.2	10.7	10.2	14.7	36.5	
26	12.3	48.4	52.9	83.5	37.0	20.8	46.5	44.0	26.5	36.9	32.3	56.6	65.6	43.1	61.5	58.6	50.3	28.3	26.0	37.8	14.5	25.9	10.9	17.6	39.1	83.5	
27	18.4	16.1	28.2	22.3	17.4	12.1	17.2	29.5	17.8	19.8	28.0	25.5	20.7	18.1	21.3	23.0	19.1	20.3	21.6	40.4	21.9	81.3	77.4	107.4	30.2	107.4	
28	128.7	105.9	123.2	263.5	145.5	218.5	161.6	47.4	34.3	26.4	12.6	18.9	16.3	6.5	41.7	57.6	64.0	76.7	24.2	14.8	26.6	27.0	48.9	54.1	72.7	263.5	
29	18.7	41.1	39.1	41.4	25.8	21.7	21.9	15.4	17.4	14.4	19.6	22.6	18.7	13.6	7.6	12.6	10.1	5.9	10.4	10.3	13.4	20.4	9.9	11.2	18.5	41.4	
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	28	27	28	29	29	29	29	29	29	29	691	100%
MEAN	25.5	32.5	31.3	35.9	26.5	32.9	27.7	25.4	28.8	32.5	34.9	50.7	49.4	50.8	45.2	41.0	38.6	38.0	29.2	25.6	22.0	29.3	23.0	25.1			
MAX	128.7	105.9	123.2	263.5	145.5	218.5	161.6	75.3	135.9	150.0	173.4	422.8	203.9	180.9	122.8	140.6	205.6	179.6	83.9	59.8	69.2	101.7	77.4	107.4			



Number of 24HR Exceedences	0
Number of Non-Zero Readings	690
Maximum 1-HR Average	422.8 UG/M3
Maximum 24-HR Average	75.6 UG/M3
Operational Time	694 HRS
Monthly Calibration	3
Operational Uptime	99.7 %
Standard Deviation	35.1
Monthly Average	33.4 UG/M3

Lagoon Temperature (°C) – February 2024

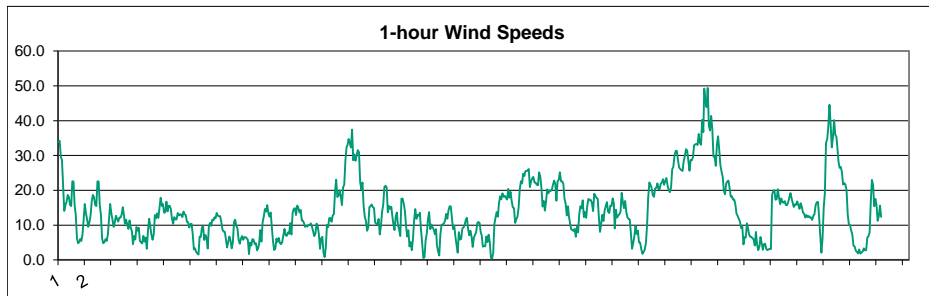
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.8	12.7	12.3	12.5	11.3	9.3	9.1	8.4	5.7	4.9	5.9	9.8	11.9	13.1	13.6	12.9	12.0	9.8	9.5	8.5	7.8	7.3	7.7	6.8	9.8	13.6
2	5.9	5.1	5.5	4.5	4.7	4.2	4.3	3.8	3.2	3.2	4.7	7.2	8.8	10.4	10.4	10.5	9.8	9.2	8.5	7.6	7.6	7.1	6.6	6.0	6.6	10.5
3	5.3	4.6	4.0	3.8	3.6	3.3	2.9	2.4	2.0	1.8	1.8	2.1	2.3	2.9	2.4	1.3	0.9	0.6	0.2	-0.5	-1.3	-2.0	-2.5	-3.3	1.6	5.3
4	-3.8	-4.2	-4.3	-4.7	-4.8	-4.6	-4.6	-4.7	-4.8	-4.6	-4.6	-4.4	-4.3	-4.2	-4.0	-3.9	-3.9	-4.5	-5.3	-5.8	-6.4	-6.6	-6.7	-7.0	-4.9	-3.8
5	-7.4	-7.3	-7.3	-7.3	-7.3	-7.4	-7.1	-7.3	-7.6	-7.5	-6.6	-4.9	-3.2	-2.3	-2.8	-2.7	-3.0	-3.3	-3.6	-4.0	-4.4	-4.7	-5.1	-5.4	-5.4	-2.3
6	-5.8	-5.9	-6.0	-6.1	-6.1	-6.0	-5.7	-5.3	-5.2	-5.2	-4.3	-3.7	-2.5	-1.5	-0.5	0.5	0.3	-0.4	-2.2	-4.7	-6.3	-7.0	-7.1	-7.2	-4.3	0.5
7	-7.0	-6.3	-6.1	-6.1	-7.1	-6.9	-6.8	-6.7	-6.3	-6.5	-6.8	-6.3	-5.4	-5.4	-5.4	-5.4	-5.6	-5.6	-5.4	-5.4	-5.6	-5.7	-5.8	-6.1	-6.1	-5.4
8	-6.4	-6.7	-6.7	-6.2	-6.2	-6.5	-6.6	-6.7	-6.9	-6.8	-6.6	-6.0	-5.3	-4.4	-4.0	-3.4	-3.3	-3.8	-4.1	-4.3	-4.4	-4.7	-5.0	-5.2	-5.4	-3.3
9	-5.5	-5.8	-5.9	-6.1	-6.2	-6.4	-6.5	-6.7	-6.9	-7.1	-6.0	-5.6	-5.0	-4.3	-2.5	-3.1	-4.8	-7.1	-9.4	-10.9	-8.6	-7.4	-7.4	-7.8	-6.4	-2.5
10	-8.3	-8.9	-9.1	-9.1	-9.2	-9.4	-9.7	-9.7	-8.7	-7.3	-5.5	-3.4	-0.9	0.6	1.5	2.1	2.6	2.3	2.1	1.8	1.6	1.4	1.0	0.6	-3.4	2.6
11	0.9	0.6	0.2	-0.2	-0.5	-0.6	-1.0	-1.4	-1.7	-1.3	-0.6	0.2	1.2	1.8	2.3	2.4	2.2	0.9	-0.1	-0.2	-0.2	-0.1	0.1	0.2	0.2	2.4
12	0.2	-0.2	-0.4	-0.7	-0.7	-0.8	-1.0	-1.1	-1.0	-0.9	-0.1	1.2	2.1	2.7	3.1	3.4	3.1	1.7	-1.0	-2.2	-3.2	-4.5	-5.4	-5.6	-0.5	3.4
13	-4.3	-5.5	-5.8	-5.8	-5.5	-5.4	-5.8	-6.1	-6.5	-5.8	-4.9	-4.6	-5.1	-6.2	-6.0	-5.7	-6.1	-6.9	-7.5	-8.0	-8.0	-9.0	-11.7	-11.3	-6.5	-4.3
14	-10.3	-11.4	-12.0	-12.7	-13.4	-14.5	-15.0	-15.9	-16.4	-16.0	-14.2	-10.9	-8.1	-7.2	-6.8	-6.6	-6.3	-7.0	-7.7	-8.5	-9.0	-9.5	-10.1	-10.8	-10.8	-6.3
15	-12.1	-12.0	-12.3	-13.6	-12.9	-12.8	-13.1	-13.7	-14.5	-14.7	-14.2	-10.6	-7.7	-6.9	-5.9	-6.1	-7.7	-9.6	-12.2	-14.5	-16.2	-17.4	-15.4	-15.8	-12.2	-5.9
16	-15.9	-16.1	-16.3	-16.8	-17.1	-16.8	-17.1	-17.4	-17.6	-16.2	-13.2	-10.0	-6.9	-4.4	-2.3	-0.7	-0.7	-1.4	-2.4	-3.2	-4.0	-4.8	-5.4	-6.2	-9.7	-0.7
17	-6.8	-7.7	-8.2	-8.9	-9.4	-9.8	-10.4	-11.0	-11.1	-10.2	-7.7	-5.0	-2.3	-0.1	1.8	3.0	3.2	1.9	0.7	-0.4	-1.5	-2.1	-3.0	-4.2	-4.5	3.2
18	-5.2	-6.1	-6.8	-7.1	-7.8	-7.9	-8.0	-8.6	-8.6	-7.9	-6.3	-4.2	-0.7	2.2	3.9	4.7	4.1	2.0	0.5	0.1	-0.4	-1.1	-1.5	-1.9	-3.0	4.7
19	-2.5	-3.2	-3.6	-4.5	-4.9	-5.0	-5.1	-4.7	-3.8	-2.2	0.1	1.6	3.3	4.5	6.3	6.4	5.7	4.6	2.7	2.1	1.8	1.0	1.0	0.4	0.1	6.4
20	-0.2	-0.7	-0.9	-1.2	-1.1	-0.9	-0.9	-1.1	-0.8	-0.3	1.3	3.3	5.7	6.8	6.9	7.4	7.2	6.4	5.4	5.3	5.0	4.2	2.0	1.2	2.5	7.4
21	2.7	2.7	2.1	1.8	0.7	-0.7	-1.4	-2.0	-2.0	1.7	2.5	4.4	6.3	7.7	7.3	7.6	6.9	6.4	5.9	5.0	5.0	4.9	4.8	4.6	3.5	7.7
22	4.3	4.4	4.2	4.4	4.1	3.4	3.1	2.9	3.2	4.4	5.6	6.6	7.1	7.5	7.3	7.3	6.7	6.0	5.0	4.8	4.6	3.8	3.6	3.2	4.9	7.5
23	3.1	2.6	2.8	2.7	2.3	1.9	1.7	1.9	2.2	3.2	5.1	6.1	6.8	6.7	6.9	7.0	6.7	6.2	5.8	5.6	5.3	5.2	5.1	5.1	4.5	7.0
24	5.3	5.0	4.8	4.6	4.3	4.1	3.6	-1.5	-2.8	-3.0	-3.2	-3.4	-3.9	-4.3	-4.3	-4.3	-4.7	-5.0	-5.3	-5.4	-5.5	-5.6	-5.6	-5.6	-1.7	5.3
25	-5.6	-5.6	-5.6	-5.8	-6.0	-6.3	-6.5	-6.7	-6.6	-5.4	-5.0	-3.6	-0.3	2.3	2.5	2.2	1.8	1.4	0.9	0.6	0.0	-0.3	-0.7	-0.8	-2.4	2.5
26	-2.1	-4.4	-7.0	-9.1	-10.3	-11.8	-12.9	-13.5	-14.4	-14.5	-14.3	-14.5	-13.9	-13.1	-12.7	-13.0	-14.6	-16.1	-17.3	-18.3	-19.4	-20.3	-20.6	-20.7	-13.7	-2.1
27	-20.9	-21.2	-21.5	-21.7	-21.8	-21.7	-21.6	-21.6	-21.4	-20.8	-19.7	-18.5	-17.3	-16.3	-15.6	-15.4	-16.1	-17.1	-18.2	-18.7	-18.5	-19.4	-14.1	-8.1	-18.6	-8.1
28	-8.2	-7.5	-5.7	-6.2	-6.4	-6.5	-5.7	-5.1	-4.9	-3.1	-1.8	-1.1	-0.4	-0.8	-0.5	-0.4	-0.1	-0.2	-0.5	-0.7	-0.7	-1.2	-1.3	-1.3	-2.9	-0.1
29	-1.4	-1.3	-1.2	-1.1	-1.0	-0.8	-0.7	-0.4	0.5	1.3	2.5	3.9	4.5	4.1	0.6	-3.6	-4.5	-4.4	-5.1	-5.3	-5.6	-6.4	-7.0	-7.7	-1.7	4.5
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	696	100%
MEAN	-3.4	-3.8	-4.0	-4.4	-4.6	-4.9	-5.1	-5.5	-5.6	-5.1	-4.0	-2.6	-1.1	-0.3	0.1	0.2	-0.3	-1.1	-2.1	-2.7	-3.1	-3.6	-3.8	-3.9		
MAX	12.8	12.7	12.3	12.5	11.3	9.3	9.1	8.4	5.7	4.9	5.9	9.8	11.9	13.1	13.6	12.9	12.0	9.8	9.5	8.5	7.8	7.3	7.7	6.8		



Number of Non-Zero Readings	696	Operational Time	696 HRS
Maximum 1-HR Average	13.6 C	Operational Uptime	100.0 %
Maximum 24-HR Average	9.8 C	Monthly Average	-3.1 C
Monthly Calibration	0		
Standard Deviation	6.938		

Lagoon Wind Speed (km/hr) – February 2024

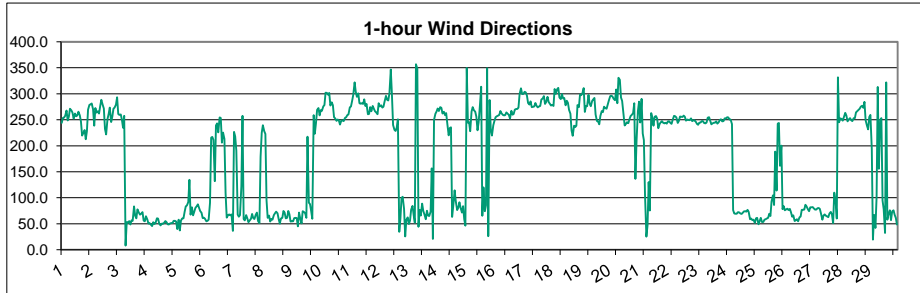
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	33.8	34.2	29.7	28.7	21.3	14.1	15.8	16.7	18.6	18.1	15.8	15.5	22.6	22.5	15.7	12.9	6.2	4.8	5.1	6.0	5.5	7.2	11.7	16.1	16.6	34.2
2	13.4	11.7	9.5	10.8	12.7	11.8	11.0	12.1	12.2	13.1	15.1	12.7	10.4	11.5	10.2	8.9	11.4	9.3	8.4	4.6	6.9	5.9	9.4	8.4	10.5	15.1
3	9.3	5.5	5.0	4.8	6.9	5.3	6.4	3.2	8.5	11.9	9.6	7.2	5.8	7.4	12.9	12.0	13.4	12.1	15.0	17.9	15.5	16.0	13.6	13.8	9.9	17.9
4	16.8	14.0	15.6	15.5	14.7	11.7	10.4	12.3	11.6	11.6	13.5	12.8	13.1	13.1	12.3	13.9	13.2	12.8	10.9	10.8	9.3	10.3	10.4	7.5	12.4	16.8
5	3.0	3.4	2.3	1.9	1.5	6.7	6.6	9.4	9.7	5.7	7.2	6.2	3.3	9.6	10.6	9.8	11.5	11.4	12.2	12.0	13.5	12.7	12.6	12.6	8.1	13.5
6	10.9	8.7	8.1	8.1	6.0	3.6	5.2	6.7	5.5	3.3	5.0	10.8	11.6	9.8	9.0	5.8	4.7	6.1	6.8	5.8	6.6	6.5	6.2	5.8	6.9	11.6
7	1.7	5.0	4.1	6.0	5.8	4.6	4.8	2.7	3.4	4.8	8.6	5.3	10.8	12.4	14.6	13.9	15.7	13.4	12.4	13.6	9.4	5.4	2.9	3.2	7.7	15.7
8	6.1	5.2	6.3	4.8	4.6	5.1	7.1	8.9	7.1	6.9	7.9	7.5	10.6	7.3	13.4	14.6	14.9	12.9	15.6	15.0	13.6	14.4	11.4	11.3	9.7	15.6
9	10.7	9.5	9.8	9.6	10.1	10.0	10.5	9.6	8.2	6.8	7.6	10.4	9.6	7.4	3.2	6.2	6.7	2.1	0.8	3.4	10.1	9.5	12.0	12.0	8.2	12.0
10	11.0	12.8	13.2	19.5	23.0	18.1	18.4	20.0	18.2	15.7	20.9	21.6	28.6	32.4	32.9	34.7	33.6	32.3	37.5	28.6	30.3	28.5	30.2	31.6	24.7	37.5
11	30.9	22.4	20.2	22.2	15.5	12.4	11.2	8.4	9.3	15.2	15.5	15.9	15.2	14.9	10.8	10.4	10.2	11.7	7.3	9.7	13.8	15.8	20.9	21.3	15.1	30.9
12	20.8	13.7	15.5	14.7	15.3	12.9	10.3	8.6	12.3	13.6	9.9	8.8	6.8	17.6	17.6	16.1	14.0	9.8	6.7	8.5	3.9	5.1	2.8	6.1	11.3	20.8
13	11.4	14.6	11.9	13.0	12.7	13.6	8.5	4.7	0.5	0.8	5.7	7.6	11.6	13.8	8.9	10.1	9.3	8.8	7.4	8.8	4.2	2.4	1.2	7.5	8.3	14.6
14	10.1	10.2	10.5	11.3	13.2	11.8	14.2	15.4	15.4	12.1	8.8	9.8	6.7	4.3	2.1	8.0	5.9	6.0	9.0	9.3	10.0	11.5	12.1	8.9	9.9	15.4
15	7.0	8.4	6.8	3.8	6.4	7.2	8.0	10.6	10.9	10.6	7.9	7.1	3.8	4.0	3.9	6.7	5.1	7.2	5.2	0.6	0.4	2.0	10.2	12.2	6.5	12.2
16	13.8	12.5	16.4	18.3	17.4	19.1	18.1	18.4	17.9	17.4	20.4	17.9	19.5	17.0	15.1	14.9	10.7	11.6	12.4	15.0	20.3	22.6	22.0	24.8	17.2	24.8
17	24.1	25.5	25.5	25.7	26.1	21.0	22.6	23.4	23.8	22.3	22.2	21.6	21.5	25.2	23.9	20.7	15.3	16.9	14.1	16.8	20.3	19.2	20.0	19.8	21.6	26.1
18	20.1	21.6	22.8	21.8	17.0	22.6	23.0	25.2	22.6	22.6	21.9	17.7	16.1	12.8	15.4	12.2	10.6	8.8	8.7	8.3	8.9	6.6	9.5	7.9	16.0	25.2
19	13.3	15.4	14.9	17.2	12.3	13.8	12.1	15.7	17.6	17.2	17.2	16.3	14.0	19.0	18.4	17.8	17.6	12.3	8.1	10.3	13.0	11.2	14.3	15.5	14.8	19.0
20	16.6	13.9	13.5	15.6	15.5	17.6	16.2	9.1	14.4	12.2	12.7	13.1	13.9	19.3	16.7	14.9	16.9	13.8	12.2	11.7	11.6	7.5	3.2	4.8	13.2	19.3
21	6.8	9.8	7.5	8.5	5.1	5.0	3.1	1.7	2.3	3.0	4.8	9.8	18.0	22.3	21.6	20.6	18.6	18.1	20.5	20.7	22.0	20.2	20.2	21.9	13.0	22.3
22	22.2	23.2	21.6	22.7	23.5	21.4	20.0	19.4	20.8	26.0	26.8	30.0	31.3	31.3	28.7	26.6	26.1	25.7	25.6	28.4	29.9	31.8	31.4	28.5	26.0	31.8
23	25.6	28.7	28.6	29.5	32.9	33.2	33.4	33.0	36.2	33.6	33.1	40.2	36.7	49.2	45.9	43.9	49.4	38.5	37.2	41.4	37.6	29.7	29.8	27.1	35.6	49.4
24	33.2	35.5	31.6	27.3	25.4	23.8	19.8	18.8	21.9	22.5	22.8	20.6	18.2	18.3	17.4	17.3	15.9	13.2	12.6	11.8	11.0	9.1	9.6	4.5	19.3	35.5
25	6.5	6.5	10.5	9.4	7.4	6.7	6.7	6.3	5.9	4.1	8.1	4.5	2.8	3.8	6.6	4.8	2.9	4.5	4.7	3.1	2.8	3.1	3.1	3.2	5.3	10.5
26	18.7	19.8	20.1	17.3	17.4	20.3	18.0	16.0	17.7	16.6	16.4	16.9	15.8	15.7	16.6	18.0	19.2	17.6	16.5	15.2	15.9	15.8	16.8	15.8	17.3	20.3
27	14.7	16.3	15.3	13.6	13.3	12.1	12.9	12.3	12.7	12.2	12.2	11.5	12.7	13.2	15.7	16.5	16.7	12.4	7.0	2.1	6.2	15.0	19.2	33.7	13.7	33.7
28	34.6	38.3	44.6	39.1	32.4	35.3	40.2	36.0	35.4	32.5	28.3	26.4	26.7	25.2	21.7	22.1	21.7	20.1	13.2	10.1	10.0	8.4	7.3	4.2	25.6	44.6
29	3.8	2.7	2.3	1.9	3.0	1.8	2.2	2.4	3.3	2.7	2.8	6.4	6.8	7.9	16.5	23.0	21.6	15.4	17.5	15.7	11.3	12.6	15.6	12.3	8.8	23.0
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	696	100%
MEAN	15.5	15.5	15.3	15.3	14.4	13.9	13.7	13.3	13.9	13.6	14.1	14.2	14.6	16.1	15.8	15.8	15.1	13.4	12.8	12.6	12.9	12.6	13.4	13.9		
MAX	34.6	38.3	44.6	39.1	32.9	35.3	40.2	36.0	36.2	33.6	33.1	40.2	36.7	49.2	45.9	43.9	49.4	38.5	37.5	41.4	37.6	31.8	31.4	33.7		



Number of Non-Zero Readings	696		
Maximum 1-HR Average	49.4 KM/HR		
Maximum 24-HR Average	35.6 KM/HR		
Monthly Calibration	0	Operational Time	696 HRS
Standard Deviation	8.689	Operational Uptime	100.0 %
		Monthly Average	14.2 KM/HR

Lagoon Wind Direction (°) – February 2024

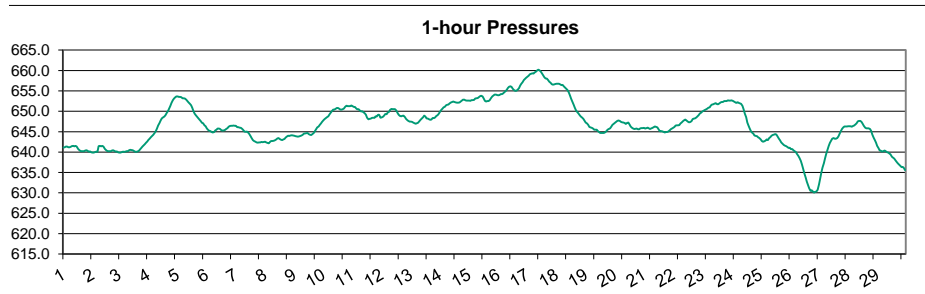
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	244.0	253.4	253.9	257.7	267.8	248.6	255.9	271.0	268.2	263.8	252.2	262.0	256.7	258.5	265.4	258.3	246.3	219.8	224.1	230.0	212.8	228.1	269.3	278.5	256.3	278.5
2	279.7	281.4	269.7	238.8	272.7	274.5	275.8	263.8	266.3	262.0	276.2	288.5	278.6	271.6	232.6	222.0	251.5	261.0	273.5	245.6	255.9	271.0	273.6	279.1	266.7	288.5
3	293.2	261.2	259.1	260.0	250.0	234.6	257.6	8.2	53.1	52.3	55.3	48.6	56.8	55.9	83.4	65.3	60.6	77.6	71.6	67.7	69.2	72.6	56.1	55.0	58.4	293.2
4	64.6	58.4	50.2	51.4	48.6	45.5	53.2	49.5	51.8	60.7	60.3	50.5	46.9	50.5	49.9	51.9	55.1	52.9	49.0	48.8	50.9	51.1	51.3	55.6	52.6	64.6
5	55.6	54.3	39.8	58.0	37.3	56.3	60.1	60.5	73.1	83.4	85.1	92.0	134.7	67.4	81.8	66.4	73.1	80.2	84.1	87.3	80.9	74.8	71.0	61.0	73.9	134.7
6	61.8	59.7	54.9	55.7	57.9	90.6	215.8	217.1	211.3	132.0	239.1	242.8	225.9	254.5	253.7	205.8	225.2	213.1	109.1	61.8	66.9	68.2	66.2	68.2	137.9	254.5
7	36.5	226.9	217.7	191.1	67.8	63.6	66.7	122.2	257.5	59.2	56.8	66.9	60.6	53.1	56.0	59.7	68.7	60.9	59.4	67.7	71.4	55.2	51.3	179.3	66.1	257.5
8	225.1	239.5	227.8	222.5	94.7	61.5	66.0	54.2	59.2	57.7	66.6	70.2	73.2	70.4	59.2	50.6	60.1	61.3	74.7	71.7	60.4	61.5	74.6	68.5	66.9	239.5
9	54.4	54.7	54.9	61.1	61.4	61.0	45.0	71.7	59.0	50.7	74.4	72.7	70.1	61.4	217.3	90.3	87.8	74.7	59.5	258.8	223.2	243.4	268.9	272.4	59.3	272.4
10	258.2	268.7	267.1	275.5	278.2	302.0	301.8	298.2	301.8	277.2	283.6	277.9	255.1	252.6	248.0	250.4	248.7	240.6	248.5	248.9	247.3	253.7	254.7	258.7	262.2	302.0
11	260.1	273.8	275.6	286.2	298.0	321.9	303.3	293.9	300.8	281.7	281.0	281.6	280.3	289.3	276.7	280.5	260.5	261.2	274.2	266.2	276.6	271.4	266.3	263.7	278.3	321.9
12	260.7	281.6	275.7	277.8	273.3	275.2	285.3	295.7	288.5	287.2	300.8	346.4	298.0	239.8	230.7	228.4	235.1	250.8	34.7	60.0	99.8	102.0	78.7	25.9	272.5	346.4
13	57.8	62.3	49.7	56.1	77.1	84.5	66.5	52.1	356.9	348.4	44.4	77.0	65.7	88.9	74.8	68.1	58.8	74.9	65.8	64.9	73.2	156.4	21.0	250.2	67.4	356.9
14	261.7	266.1	271.6	267.0	274.1	273.1	262.1	265.6	258.8	263.0	242.6	220.2	234.2	235.7	63.0	88.6	114.3	93.7	76.2	81.0	91.3	80.8	71.7	84.0	254.6	274.1
15	58.8	46.4	349.7	244.1	245.7	227.9	265.9	274.3	268.5	265.5	255.6	229.6	245.4	280.3	313.7	65.4	119.9	74.0	85.8	349.3	26.3	288.1	230.5	219.8	260.5	349.7
16	239.4	248.0	254.7	256.6	258.0	259.2	266.8	262.4	259.1	258.5	258.9	264.1	261.4	259.5	252.2	267.3	259.9	261.1	269.3	270.9	270.6	273.6	300.0	310.6	265.7	310.6
17	299.4	299.6	304.0	302.5	296.5	282.0	279.1	285.3	274.4	274.6	275.7	282.1	277.0	273.7	275.6	276.5	288.7	290.9	295.3	280.3	284.1	293.9	283.8	280.8	285.8	304.0
18	277.2	278.7	276.4	308.9	299.8	308.8	311.4	293.0	289.8	299.3	291.0	292.0	277.6	286.5	282.7	269.2	261.3	229.5	219.1	238.6	235.8	238.8	278.2	274.1	284.1	311.4
19	298.5	297.2	300.2	310.7	265.2	276.4	276.1	297.7	280.7	275.9	286.0	289.4	292.1	260.2	247.5	247.0	241.4	257.5	267.0	264.8	275.0	272.3	271.0	279.0	276.2	310.7
20	287.1	295.5	296.1	294.4	290.3	287.3	308.0	281.6	330.9	326.9	292.6	286.3	260.6	239.2	241.7	245.3	243.6	251.1	257.1	259.5	263.0	281.9	136.4	210.0	275.7	330.9
21	266.8	284.9	244.6	290.1	223.7	211.0	105.1	25.1	46.8	130.0	75.5	262.6	254.1	238.6	255.7	257.0	252.2	233.6	242.1	245.2	247.2	244.3	242.8	244.1	248.2	290.1
22	242.7	247.1	247.0	244.0	242.2	250.2	257.5	256.7	254.6	243.9	247.7	256.3	255.8	255.3	257.9	255.9	248.4	250.3	249.5	249.0	252.7	247.2	248.7	249.3	250.5	257.9
23	246.0	242.1	240.5	244.5	244.9	247.3	247.5	243.8	243.1	244.8	254.1	255.0	247.8	241.1	242.8	244.3	244.4	246.9	242.7	245.4	249.4	251.1	247.1	247.4	245.9	255.0
24	252.5	252.3	255.0	254.5	250.3	250.7	241.6	76.3	69.9	69.4	69.2	72.4	72.1	69.9	68.9	71.2	73.7	74.0	73.5	76.7	73.0	58.7	60.2	56.9	68.3	255.0
25	57.9	51.7	60.5	61.6	49.2	55.2	61.4	53.7	53.3	57.7	58.7	60.1	61.3	69.5	64.8	93.2	104.6	86.3	188.7	113.7	242.7	243.9	161.5	200.3	68.7	243.9
26	78.3	83.8	76.0	77.7	79.2	76.4	78.5	71.9	63.5	66.3	55.2	57.2	58.8	55.0	62.2	64.0	76.7	76.7	77.1	86.6	83.4	77.9	74.1	81.5	72.6	86.6
27	81.6	82.0	79.5	77.2	77.3	79.9	80.5	78.4	69.9	57.7	65.7	68.1	65.4	64.1	62.6	69.7	73.1	67.6	51.5	109.8	92.7	60.0	331.7	245.4	68.3	331.7
28	252.9	251.2	248.4	256.1	263.4	257.9	246.8	251.1	253.1	249.1	247.2	253.0	253.0	264.0	266.7	269.1	271.1	275.2	277.0	273.0	284.4	249.1	238.8	231.7	256.4	284.4
29	255.2	259.2	194.2	19.6	67.0	42.2	101.7	313.0	155.9	249.9	253.2	94.8	78.3	32.3	321.7	58.1	68.7	75.9	57.1	73.6	76.0	67.1	61.4	48.5	59.1	321.7
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	696	100%
MEAN	193.4	202.1	206.7	200.0	190.1	189.8	194.6	185.8	197.2	191.3	182.9	186.9	182.7	177.2	186.5	163.4	168.1	164.6	157.1	172.3	166.8	177.2	173.8	185.5		
MAX	299.4	299.6	349.7	310.7	299.8	321.9	311.4	313.0	356.9	348.4	300.8	346.4	298.0	289.3	321.7	280.5	288.7	290.9	295.3	349.3	284.4	293.9	331.7	310.6		



Number of Non-Zero Readings	696
Maximum 1-HR Average	357 degrees
Maximum 24-HR Average	286 degrees
Operational Time	696 HRS
Operational Uptime	100.0 %
Monthly Calibration	0
Standard Deviation	98.6
Monthly Average	183.2 degrees

Lagoon Pressure (mmHg) – February 2024

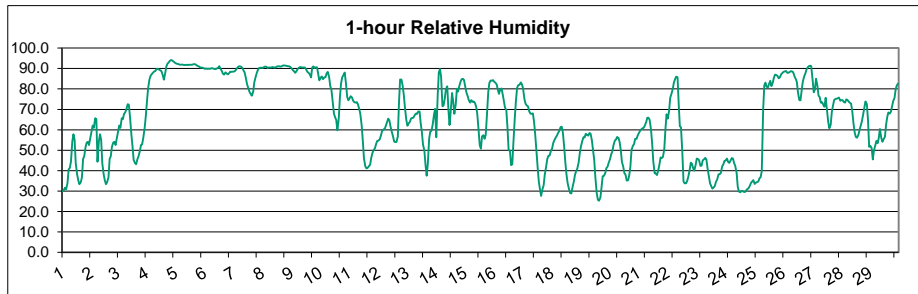
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	641.1	641.2	641.3	641.3	641.2	641.2	641.3	641.5	641.5	641.4	641.5	641.4	640.8	640.5	640.3	640.2	640.2	640.2	640.4	640.4	640.3	640.1	640.1	639.9		
2	639.9	639.9	640.0	640.1	640.1	640.1	640.2	640.2	640.4	640.6	640.5	640.4	640.3	640.1	640.0	640.1	640.3	640.6	641.0	641.3	641.7	641.9	642.3	642.6		
3	643.0	643.3	643.7	644.0	644.2	644.7	645.1	645.8	646.5	647.1	647.7	648.3	648.5	648.7	649.1	649.6	650.1	650.7	651.3	652.1	652.7	653.1	653.4	653.6		
4	653.6	653.6	653.5	653.5	653.2	653.2	653.1	652.8	652.5	652.2	651.9	651.5	650.9	650.1	649.4	649.0	648.7	648.3	648.0	647.6	647.2	647.0	646.6	646.3		
5	645.8	645.5	645.2	645.1	644.9	644.8	644.9	645.3	645.5	645.8	645.8	645.6	645.4	645.2	645.3	645.4	645.7	645.9	646.2	646.4	646.4	646.5	646.5	646.5		
6	646.4	646.1	646.1	646.0	645.9	645.7	645.4	645.0	645.0	645.0	644.8	644.5	643.9	643.4	643.0	642.7	642.5	642.4	642.3	642.3	642.3	642.5	642.4	642.5		
7	642.5	642.4	642.3	642.1	642.5	642.7	642.7	642.8	642.9	643.0	643.3	643.4	643.2	643.0	643.0	643.1	643.2	643.6	643.9	644.0	644.0	644.1	644.1	644.1		
8	644.0	643.9	643.9	643.8	643.9	644.0	644.0	644.3	644.5	644.6	644.6	644.7	644.4	644.2	644.2	644.4	644.7	645.2	645.6	646.0	646.3	646.7	647.0	647.4		
9	647.8	648.1	648.3	648.5	648.8	649.2	649.6	650.1	650.4	650.4	650.6	650.8	650.8	650.6	650.4	650.4	650.5	650.7	651.1	651.4	651.3	651.3	651.3	651.4		
10	651.3	651.1	651.0	650.7	650.5	650.5	650.2	650.0	650.0	649.8	649.5	649.2	648.4	648.0	648.1	648.2	648.4	648.5	648.4	648.8	648.7	649.1	649.1	648.5		
11	648.5	648.7	648.9	649.3	649.3	649.8	649.9	650.3	650.6	650.5	650.5	650.5	650.2	649.6	649.1	648.9	648.8	648.9	648.9	648.6	648.1	647.9	647.7	647.5		
12	647.5	647.4	647.2	647.1	647.0	647.1	647.2	647.6	647.9	648.2	648.5	648.9	648.7	648.3	648.2	648.0	647.9	648.0	648.4	648.3	648.5	648.8	649.1	649.4		
13	649.9	650.4	650.6	651.0	651.1	651.5	651.6	651.7	651.9	652.2	652.3	652.4	652.3	652.1	652.1	652.1	652.2	652.4	652.6	652.8	653.2	653.6	653.9	654.1		
14	652.6	652.6	652.7	652.7	652.8	653.1	653.2	653.2	653.5	653.7	653.8	653.6	653.1	652.6	652.4	652.5	652.5	652.8	653.2	653.6	653.9	654.1	654.1	654.0		
15	653.9	654.0	654.2	654.2	654.4	654.6	654.9	655.3	655.7	656.0	656.1	656.0	655.5	655.2	655.0	655.1	655.3	655.7	656.3	656.7	657.1	657.7	657.9	658.2		
16	658.5	658.8	659.1	659.2	659.3	659.3	659.5	659.7	660.0	660.2	660.0	659.7	659.2	658.8	658.3	658.1	658.0	657.7	657.3	657.0	656.7	656.6	656.6	656.7		
17	656.8	656.7	656.7	656.6	656.4	656.5	656.1	655.8	655.5	655.2	654.6	653.9	653.1	652.4	651.6	650.9	650.2	649.8	649.4	649.0	648.7	648.5	648.1	647.7		
18	647.2	647.0	646.7	646.2	646.0	645.9	645.8	645.5	645.5	645.5	645.2	644.9	644.7	644.7	644.7	644.8	644.8	645.1	645.5	645.7	645.8	646.2	646.7	646.9		
19	647.2	647.4	647.6	647.8	647.7	647.4	647.3	647.3	647.1	646.9	647.1	647.2	646.8	646.3	646.0	645.8	645.7	645.7	645.8	645.6	645.6	645.8	645.9	645.9		
20	645.9	645.8	645.9	646.0	645.8	645.7	645.8	646.0	646.1	646.3	646.2	646.0	645.6	645.1	645.1	645.1	645.0	644.8	644.9	644.9	645.0	645.3	645.6	645.8		
21	645.9	646.2	646.5	646.6	646.6	646.6	647.0	647.2	647.6	647.8	648.0	647.7	647.5	647.3	647.3	647.6	648.1	648.2	648.3	648.5	648.7	649.1	649.4	649.7		
22	650.0	650.1	650.3	650.5	650.6	650.8	651.0	651.4	651.6	651.7	651.9	652.0	651.8	651.7	651.9	652.2	652.3	652.3	652.5	652.5	652.5	652.7	652.6	652.6		
23	652.7	652.6	652.4	652.2	652.1	652.2	652.1	652.0	651.9	651.3	650.5	649.4	648.6	647.2	646.5	645.8	645.1	644.8	644.5	644.1	643.9	643.9	643.6	643.5		
24	643.1	642.7	642.6	642.6	642.8	643.1	643.0	643.5	643.7	644.0	644.2	644.3	644.4	644.3	643.8	643.3	642.9	642.4	642.0	641.7	641.6	641.4	641.3	641.0		
25	641.0	640.7	640.7	640.4	640.2	640.0	639.5	638.6	637.8	636.9	635.9	634.8	633.7	632.7	631.9	631.2	630.5	630.6	630.4	630.1	630.3	630.3	630.8	630.8		
26	632.1	633.5	635.0	636.2	637.3	638.5	639.6	640.5	641.5	642.3	642.8	643.3	643.4	643.3	643.3	643.4	643.8	644.4	645.1	645.7	646.0	646.3	646.3	646.3		
27	646.3	646.3	646.3	646.2	646.4	646.5	646.8	647.1	647.5	647.6	647.7	647.4	647.0	646.5	646.0	645.9	645.9	645.8	645.6	645.2	644.3	643.5	643.0	642.3		
28	641.5	641.0	640.4	640.3	640.1	640.2	640.4	640.2	640.0	639.9	639.7	639.4	638.9	638.7	638.4	638.0	637.6	637.2	636.9	636.6	636.3	636.4	636.1	635.6		
29	635.1	634.7	634.0	633.3	632.7	632.2	631.7	631.2	631.2	631.1	631.0	631.0	630.9	630.8	631.8	633.0	633.5	633.9	634.0	634.5	635.8	636.7	637.4	637.6		
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29		
MEAN	646.6	646.6	646.7	646.7	646.7	646.8	646.9	647.0	647.1	647.2	647.2	647.0	646.7	646.3	646.1	646.0	646.0	646.1	646.2	646.3	646.3	646.4	646.5	646.4		
MAX	658.5	658.8	659.1	659.2	659.3	659.3	659.5	659.7	660.0	660.2	660.0	659.7	659.2	658.8	658.3	658.1	658.0	657.7	657.3	657.0	657.1	657.7	657.9	658.2		



Number of Non-Zero Readings	696	Operational Time	696 HRS
Maximum 1-HR Average	660 MMHg	Operational Uptime	100.0 %
Maximum 24-HR Average	659 MMHg	Monthly Average	646.6 MMHg
Monthly Calibration	0		
Standard Deviation	5.909		

Lagoon Relative Humidity (%) – February 2024

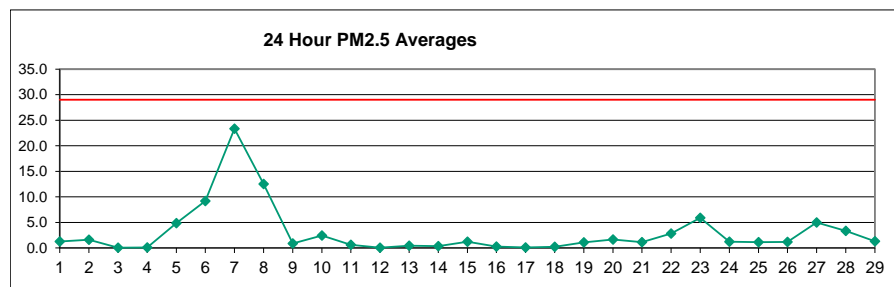
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	29.9	30.5	31.7	30.9	33.9	40.7	41.3	44.4	54.4	57.8	55.2	43.6	38.2	35.2	33.4	34.4	36.8	45.8	47.0	51.6	53.8	54.1	52.6	56.3	43.1	57.8
2	59.2	62.0	61.0	65.7	65.3	67.9	68.4	70.4	72.5	72.3	66.4	57.7	51.9	45.3	43.7	43.1	45.5	46.9	49.5	52.5	52.9	56.0	60.8	66.6	58.5	72.5
3	73.7	80.1	84.6	86.5	87.2	88.0	88.6	88.8	89.9	89.8	89.5	89.2	88.8	86.8	84.6	87.3	91.0	92.4	92.9	93.7	94.1	93.9	93.4	92.9	88.6	94.1
4	92.5	92.3	92.2	91.9	91.9	91.9	91.8	91.8	91.7	91.8	91.7	91.8	91.8	91.8	92.0	92.1	91.8	91.3	91.0	90.5	90.5	90.4	90.2	91.6	92.5	
5	89.8	90.0	89.8	89.9	89.8	90.0	90.1	89.9	89.8	89.7	90.0	90.4	91.2	89.9	88.8	87.5	87.0	88.1	87.6	87.1	87.5	88.5	88.3	88.5	89.1	91.2
6	88.5	88.8	89.6	90.3	91.1	91.0	91.0	90.3	89.0	88.0	85.4	82.5	80.3	78.6	77.5	76.6	78.5	83.2	85.5	87.9	89.3	90.2	90.4	90.3	86.4	91.1
7	90.3	90.7	90.9	90.8	90.3	90.4	90.4	90.5	90.7	90.6	90.4	90.7	91.0	91.0	91.0	90.9	91.1	91.5	91.5	91.4	91.2	91.1	91.0	90.7	90.8	91.5
8	90.0	89.1	88.6	87.9	88.7	89.8	90.4	90.7	90.6	90.5	90.5	89.7	88.3	87.9	87.3	85.7	85.7	90.5	91.0	90.3	90.6	90.6	87.4	84.2	89.2	91.0
9	85.6	86.1	84.7	85.5	85.8	87.5	88.3	85.7	81.3	79.6	74.3	67.9	66.1	64.8	59.7	65.6	75.7	82.6	85.6	86.9	88.0	83.1	76.0	74.4	79.2	88.3
10	75.4	76.5	75.7	74.2	73.5	73.3	73.5	72.5	70.4	67.9	62.2	54.8	46.1	42.1	41.1	41.3	42.2	42.9	46.3	48.7	49.9	51.0	53.0	54.6	58.7	76.5
11	54.7	55.4	57.2	59.3	60.2	60.3	61.7	63.4	65.5	64.7	61.7	59.3	56.9	54.3	54.0	54.0	56.7	73.0	84.7	84.6	81.7	77.3	71.1	64.9	64.0	84.7
12	62.0	63.1	63.8	65.6	65.8	65.9	67.1	68.0	67.8	68.9	68.9	63.1	59.0	52.8	49.9	42.8	37.5	43.2	55.8	59.1	59.5	62.3	67.4	70.3	60.4	70.3
13	56.4	76.3	87.9	89.8	86.1	71.5	72.0	75.3	79.9	81.3	69.9	62.4	69.0	78.0	73.6	67.8	72.5	80.1	78.7	81.1	83.6	84.8	84.9	84.4	77.0	89.8
14	80.8	78.1	76.5	74.6	73.3	74.6	73.7	73.9	73.1	71.4	67.9	59.6	52.3	50.8	56.8	57.4	55.6	57.5	66.6	78.4	83.0	84.1	84.1	84.3	70.3	84.3
15	83.5	83.1	82.2	79.6	77.6	79.6	80.3	77.4	74.3	71.0	69.7	61.2	50.3	49.5	42.7	43.1	53.9	65.8	74.2	80.5	81.8	82.1	83.2	82.3	71.2	83.5
16	80.4	75.1	72.7	72.0	71.4	69.1	68.0	67.9	68.0	64.1	58.0	50.5	41.4	34.6	31.0	27.7	31.0	32.9	38.1	42.0	45.7	47.2	47.4	49.8	53.6	80.4
17	50.9	53.5	54.9	56.3	57.2	58.3	59.4	61.3	61.6	58.7	51.3	43.8	38.0	33.8	30.9	28.9	28.9	31.8	34.7	38.0	39.7	41.0	44.1	48.6	46.1	61.6
18	51.9	54.5	56.4	56.2	58.1	57.4	57.2	58.4	58.2	54.7	49.9	45.3	36.7	28.9	25.8	25.3	26.8	31.9	37.3	37.4	38.8	41.2	41.9	43.8	44.8	58.4
19	45.6	47.9	49.4	52.4	54.7	55.2	56.5	56.0	54.0	50.0	44.3	41.8	38.8	37.9	35.1	35.3	37.7	42.0	50.2	52.3	53.0	55.6	55.6	57.3	48.3	57.3
20	58.4	59.4	60.3	60.7	61.0	62.1	63.8	65.9	65.9	64.9	60.2	53.4	44.6	38.8	38.7	37.9	39.8	43.1	46.4	46.1	46.8	50.4	60.2	67.5	54.0	67.5
21	65.5	69.2	75.7	77.5	80.0	83.0	84.7	86.0	85.8	82.7	61.7	61.2	48.8	34.7	33.8	33.8	34.9	37.0	39.8	44.0	43.3	41.2	40.0	42.8	57.4	86.0
22	45.9	45.7	45.2	42.3	42.5	45.0	45.6	46.3	45.5	41.3	37.2	33.8	32.4	31.3	31.8	32.6	34.6	35.6	38.2	38.3	38.8	42.1	43.0	44.8	40.0	46.3
23	44.9	45.9	44.3	43.8	44.8	46.2	45.9	43.8	42.3	39.0	32.1	29.8	29.5	30.0	29.7	29.6	30.4	31.0	31.3	32.7	34.0	34.8	35.4	36.7	36.7	46.2
24	33.5	34.2	34.4	34.7	36.3	36.8	39.8	70.0	81.7	83.1	81.1	80.8	82.5	83.9	81.4	83.1	85.6	87.0	86.8	86.3	85.3	85.7	87.2	87.8	69.5	87.8
25	88.4	88.6	88.8	87.9	87.9	88.3	88.7	88.6	88.3	86.1	85.0	83.5	78.4	74.5	74.5	79.1	83.4	86.1	87.4	89.4	90.5	91.2	91.4	91.1	86.1	91.4
26	84.4	78.4	79.7	85.0	81.6	76.6	76.0	73.3	73.4	72.1	71.3	75.7	69.5	64.0	60.8	62.4	68.8	71.7	74.5	75.1	75.2	75.4	75.8	74.2	74.0	85.0
27	74.5	74.5	73.6	73.3	74.8	74.6	73.8	73.2	72.8	69.4	62.7	58.6	56.5	56.1	57.4	59.8	62.0	64.0	67.5	70.8	73.8	72.5	64.9	51.7	67.2	74.8
28	52.2	51.0	45.5	49.9	52.1	54.5	53.4	55.9	60.4	56.0	54.1	55.4	56.6	62.5	66.2	68.5	67.9	68.9	71.4	73.9	75.7	80.0	81.7	82.7	62.4	82.7
29	83.5	84.5	85.5	86.8	88.1	89.4	90.3	91.0	91.2	91.0	89.1	82.0	74.0	76.1	88.0	91.5	90.5	85.3	89.4	87.1	83.9	89.4	89.0	87.8	86.9	91.5
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	696	100%
MEAN	68.0	69.1	69.8	70.4	70.7	71.0	71.4	72.8	73.5	71.7	68.0	64.1	60.4	58.2	57.3	57.5	59.4	62.9	66.2	68.2	69.0	69.9	70.0	70.4		
MAX	92.5	92.3	92.2	91.9	91.9	91.9	91.8	91.8	91.7	91.8	91.7	91.8	91.8	91.8	92.0	92.1	92.1	92.4	92.9	93.7	94.1	93.9	93.4	92.9		



Number of Non-Zero Readings	696		
Maximum 1-HR Average	94.1 %		
Maximum 24-HR Average	91.6 %		
Monthly Calibration	0	Operational Time	696 HRS
Standard Deviation	19.56	Operational Uptime	100.0 %
		Monthly Average	67.1 %

Windridge PM_{2.5} (µg/m³) – February 2024

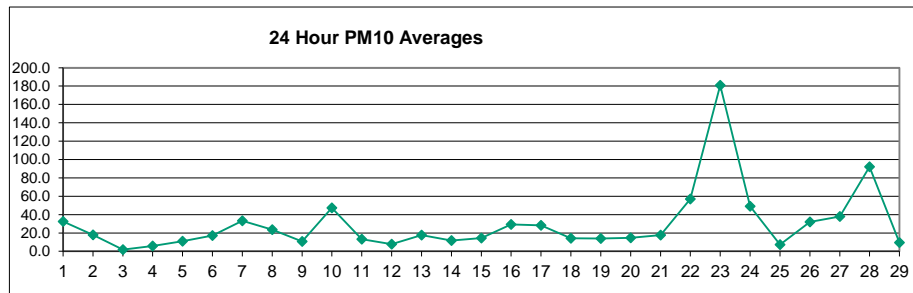
Day	HOUR																								MEAN	MAX		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1	16.0	7.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.3	16.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	9.0	8.0	9.0	6.0	3.0	0.0	0.0	0.0	2.0	0.0	1.6	9.0	
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	1.0	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
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	2.0	0.0	0.0	0.1	2.0	
5	1.0	2.0	1.0	3.0	2.0	9.0	10.0	8.0	8.0	11.0	9.0	14.0	10.0	2.0	0.0	1.0	0.0	0.0	0.0	1.0	3.0	9.0	8.0	5.0	4.9	14.0		
6	7.0	8.0	5.0	4.0	5.0	10.0	12.0	10.0	6.0	9.0	6.0	7.0	4.0	5.0	5.0	2.0	1.0	1.0	7.0	16.0	16.0	17.0	24.0	34.0	9.2	34.0		
7	38.0	39.0	19.0	17.0	42.0	36.0	36.0	36.0	41.0	38.0	23.0	28.0	27.0	20.0	10.0	12.0	10.0	12.0	15.0	12.0	11.0	9.0	16.0	13.0	23.3	42.0		
8	9.0	5.0	3.0	3.0	9.0	18.0	19.0	20.0	17.0	17.0	18.0	25.0	21.0	13.0	14.0	14.0	X	4.0	11.0	14.0	14.0	13.0	7.0	0.0	12.5	25.0		
9	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	1.0	1.0	3.0	1.0	0.0	0.0	3.0	0.0	0.9	3.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	8.0	10.0	8.0	3.0	0.0	6.0	5.0	3.0	6.0	5.0	2.5	10.0		
11	3.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.6	3.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	
13	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.5	2.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0		
15	0.0	4.0	3.0	2.0	2.0	0.0	0.0	7.0	3.0	0.0	2.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.3	2.0		
17	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	0.1	2.0		
18	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0		
19	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	2.0	7.0	6.0	4.0	2.0	0.0	0.0	1.0	1.0	0.0	0.0	1.1	7.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	1.0	0.0	0.0	2.0	2.0	2.0	6.0	3.0	15.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	15.0		
21	0.0	0.0	0.0	0.0	0.0	1.0	4.0	1.0	0.0	4.0	4.0	2.0	1.0	2.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	4.0		
22	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	10.0	6.0	9.0	10.0	5.0	0.0	3.0	5.0	0.0	0.0	0.0	0.0	4.0	6.0	4.0	2.8	10.0			
23	1.0	2.0	3.0	2.0	6.0	6.0	2.0	5.0	9.0	8.0	26.0	8.0	5.0	15.0	15.0	C	C	1.0	2.0	6.0	4.0	1.0	1.0	2.0	5.9	26.0		
24	1.0	4.0	6.0	4.0	1.0	0.0	0.0	0.0	0.0	3.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.2	6.0		
25	0.0	0.0	0.0	1.0	3.0	1.0	0.0	0.0	1.0	2.0	4.0	7.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.0		
26	0.0	0.0	3.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	1.0	1.2	3.0		
27	1.0	4.0	5.0	2.0	0.0	3.0	8.0	7.0	5.0	6.0	4.0	3.0	4.0	4.0	4.0	7.0	7.0	8.0	6.0	9.0	7.0	6.0	5.0	5.0	5.0	9.0	9.0	
28	5.0	3.0	3.0	3.0	5.0	3.0	0.0	1.0	0.0	9.0	9.0	10.0	9.0	8.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.3	10.0		
29	4.0	5.0	2.0	0.0	0.0	0.0	0.0	3.0	6.0	3.0	1.0	2.0	0.0	1.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.0		
NO.	32	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	27	29	29	29	29	29	29	29	693	100%		
MEAN	2.9	3.1	2.1	1.6	2.6	3.0	3.3	3.6	3.6	4.2	4.2	4.4	3.7	3.0	3.4	2.9	2.3	1.6	1.7	2.3	2.2	2.5	2.8	2.6				
MAX	38.0	39.0	19.0	17.0	42.0	36.0	36.0	36.0	41.0	38.0	26.0	28.0	27.0	20.0	15.0	14.0	15.0	12.0	15.0	16.0	16.0	17.0	24.0	34.0				



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	322	
Maximum 1-HR Average	42.0 UG/M3	
Maximum 24-HR Average	23.3 UG/M3	
IZS Calibration Time		Operational Time 695 HRS
Down Time	0	Operational Uptime 99.9 %
Standard Deviation	5.984	Monthly Average 2.9 UG/M3

Windridge PM₁₀ (µg/m³) – February 2024

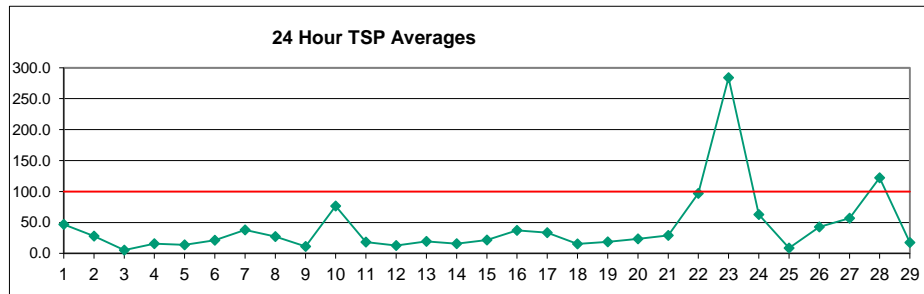
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	162.0	102.0	46.0	33.0	21.0	9.0	34.0	39.0	18.0	12.0	13.0	30.0	40.0	50.0	36.0	35.0	38.0	18.0	12.0	10.0	5.0	6.0	4.0	9.0	32.6	162.0
2	7.0	2.0	0.0	1.0	2.0	1.0	3.0	5.0	3.0	2.0	10.0	12.0	20.0	44.0	92.0	78.0	68.0	42.0	6.0	7.0	4.0	5.0	9.0	5.0	17.8	92.0
3	3.0	2.0	5.0	2.0	1.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	3.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0	4.0	4.0	1.9	5.0
4	3.0	4.0	3.0	2.0	3.0	5.0	4.0	3.0	8.0	8.0	5.0	10.0	20.0	9.0	21.0	7.0	9.0	5.0	2.0	3.0	1.0	1.0	0.0	0.0	5.7	21.0
5	1.0	1.0	3.0	13.0	21.0	11.0	17.0	16.0	15.0	18.0	27.0	20.0	16.0	13.0	7.0	3.0	6.0	5.0	4.0	4.0	6.0	17.0	11.0	9.0	11.0	27.0
6	16.0	10.0	12.0	9.0	11.0	16.0	14.0	17.0	11.0	17.0	18.0	17.0	11.0	14.0	15.0	16.0	16.0	14.0	17.0	26.0	20.0	27.0	31.0	37.0	17.2	37.0
7	52.0	61.0	37.0	24.0	57.0	44.0	48.0	48.0	61.0	65.0	32.0	37.0	43.0	16.0	16.0	13.0	19.0	20.0	19.0	12.0	20.0	16.0	15.0	23.0	33.3	65.0
8	9.0	6.0	5.0	4.0	18.0	37.0	35.0	26.0	26.0	22.0	33.0	42.0	36.0	27.0	23.0	22.0	X	24.0	16.0	17.0	34.0	31.0	26.0	21.0	23.5	42.0
9	32.0	13.0	10.0	17.0	15.0	7.0	13.0	16.0	10.0	6.0	15.0	6.0	4.0	7.0	10.0	21.0	9.0	13.0	19.0	0.0	0.0	5.0	5.0	4.0	10.7	32.0
10	3.0	5.0	6.0	7.0	11.0	20.0	26.0	53.0	36.0	24.0	27.0	54.0	74.0	113.0	85.0	93.0	72.0	35.0	74.0	79.0	67.0	46.0	56.0	69.0	47.3	113.0
11	71.0	34.0	24.0	41.0	6.0	4.0	2.0	2.0	1.0	0.0	8.0	16.0	15.0	10.0	9.0	9.0	19.0	17.0	10.0	4.0	0.0	3.0	4.0	6.0	13.1	71.0
12	7.0	4.0	9.0	6.0	3.0	5.0	5.0	3.0	2.0	5.0	4.0	4.0	7.0	16.0	20.0	16.0	14.0	8.0	10.0	10.0	8.0	7.0	9.0	5.0	7.8	20.0
13	1.0	51.0	32.0	31.0	17.0	6.0	5.0	5.0	4.0	11.0	10.0	6.0	32.0	104.0	23.0	8.0	38.0	7.0	6.0	6.0	10.0	6.0	3.0	1.0	17.6	104.0
14	0.0	0.0	4.0	5.0	7.0	5.0	10.0	9.0	14.0	14.0	22.0	34.0	18.0	15.0	10.0	7.0	6.0	4.0	17.0	23.0	27.0	13.0	8.0	7.0	11.6	34.0
15	8.0	9.0	11.0	7.0	8.0	7.0	13.0	22.0	19.0	19.0	26.0	66.0	26.0	10.0	9.0	6.0	10.0	20.0	7.0	4.0	4.0	7.0	11.0	17.0	14.4	66.0
16	15.0	6.0	9.0	6.0	19.0	9.0	10.0	16.0	41.0	32.0	36.0	38.0	38.0	23.0	30.0	20.0	19.0	14.0	13.0	15.0	38.0	76.0	101.0	77.0	29.2	101.0
17	63.0	64.0	40.0	50.0	36.0	30.0	23.0	27.0	24.0	22.0	23.0	30.0	45.0	34.0	19.0	8.0	15.0	8.0	11.0	16.0	15.0	23.0	26.0	25.0	28.2	64.0
18	27.0	38.0	34.0	58.0	22.0	20.0	11.0	7.0	6.0	9.0	9.0	16.0	10.0	10.0	9.0	9.0	10.0	6.0	4.0	5.0	6.0	7.0	3.0	6.0	14.3	58.0
19	5.0	4.0	3.0	3.0	6.0	4.0	3.0	5.0	8.0	13.0	18.0	6.0	11.0	33.0	63.0	60.0	54.0	13.0	7.0	5.0	5.0	3.0	1.0	2.0	14.0	63.0
20	5.0	4.0	4.0	3.0	1.0	8.0	5.0	8.0	10.0	10.0	10.0	19.0	21.0	37.0	45.0	37.0	30.0	42.0	10.0	10.0	16.0	21.0	3.0	3.0	14.8	45.0
21	3.0	3.0	1.0	3.0	2.0	2.0	0.0	6.0	14.0	14.0	22.0	20.0	27.0	30.0	35.0	26.0	11.0	30.0	23.0	23.0	30.0	23.0	38.0	39.0	17.7	39.0
22	32.0	58.0	51.0	26.0	45.0	12.0	44.0	30.0	42.0	124.0	104.0	49.0	62.0	53.0	53.0	49.0	49.0	17.0	40.0	92.0	130.0	45.0	63.0	97.0	57.0	130.0
23	49.0	77.0	157.0	180.0	163.0	96.0	75.0	207.0	240.0	459.0	485.0	278.0	189.0	348.0	348.0	C	C	59.0	65.0	146.0	89.0	44.0	102.0	123.0	180.9	485.0
24	211.0	205.0	241.0	64.0	78.0	37.0	15.0	18.0	13.0	21.0	18.0	27.0	51.0	46.0	26.0	28.0	23.0	12.0	7.0	4.0	5.0	15.0	9.0	5.0	49.1	241.0
25	4.0	3.0	4.0	6.0	7.0	7.0	5.0	4.0	4.0	13.0	10.0	18.0	24.0	7.0	4.0	3.0	2.0	6.0	8.0	9.0	8.0	12.0	6.0	0.0	7.3	24.0
26	30.0	23.0	72.0	93.0	33.0	39.0	53.0	28.0	41.0	38.0	49.0	44.0	23.0	23.0	11.0	23.0	12.0	21.0	38.0	19.0	16.0	10.0	12.0	14.0	31.9	93.0
27	8.0	20.0	20.0	9.0	10.0	16.0	33.0	25.0	12.0	19.0	20.0	16.0	15.0	13.0	14.0	16.0	22.0	17.0	10.0	18.0	37.0	37.0	153.0	352.0	38.0	352.0
28	164.0	211.0	291.0	276.0	157.0	143.0	90.0	96.0	98.0	96.0	89.0	112.0	92.0	85.0	51.0	46.0	35.0	11.0	7.0	5.0	3.0	4.0	20.0	27.0	92.0	291.0
29	32.0	32.0	15.0	7.0	5.0	8.0	10.0	9.0	10.0	7.0	7.0	8.0	6.0	16.0	10.0	14.0	8.0	4.0	4.0	2.0	4.0	2.0	4.0	6.0	9.6	32.0
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	27	29	29	29	29	29	29	29	693	100%
MEAN	35.3	36.3	39.6	34.0	27.1	21.0	20.9	25.9	27.3	37.9	40.0	35.8	34.3	42.0	37.6	23.9	23.2	15.9	16.1	20.0	21.2	17.1	25.4	34.2		
MAX	211.0	211.0	291.0	276.0	163.0	143.0	90.0	207.0	240.0	459.0	485.0	278.0	189.0	348.0	348.0	93.0	72.0	59.0	74.0	146.0	130.0	76.0	153.0	352.0		



Number of Non-Zero Readings	677	
Maximum 1-HR Average	485.0 UG/M3	
Maximum 24-HR Average	180.9 UG/M3	
IZS Calibration Time	OperatioEI Time	695 HRS
Down Time	OperatioEI Uptime	99.9 %
Standard Deviation	Monthly Average	28.9 UG/M3

Windridge TSP ($\mu\text{g}/\text{m}^3$) – February 2024

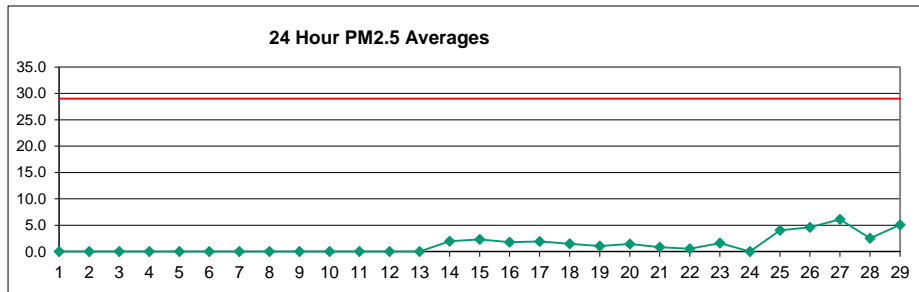
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	205.0	157.0	62.0	39.0	36.0	15.0	60.0	43.0	23.0	22.0	20.0	40.0	69.0	80.0	49.0	54.0	60.0	40.0	14.0	12.0	6.0	1.0	3.0	14.0	46.8	205.0	
2	8.0	2.0	0.0	2.0	2.0	3.0	4.0	3.0	9.0	7.0	18.0	7.0	26.0	65.0	149.0	154.0	111.0	65.0	11.0	7.0	5.0	3.0	8.0	5.0	28.1	154.0	
3	4.0	2.0	0.0	0.0	4.0	5.0	6.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	11.0	11.0	27.0	19.0	16.0	5.2	27.0	
4	27.0	29.0	23.0	17.0	19.0	28.0	7.0	12.0	17.0	14.0	17.0	24.0	33.0	26.0	19.0	18.0	15.0	8.0	5.0	6.0	4.0	6.0	4.0	1.0	15.8	33.0	
5	3.0	2.0	12.0	14.0	28.0	18.0	17.0	12.0	12.0	18.0	33.0	30.0	21.0	22.0	5.0	7.0	6.0	6.0	4.0	7.0	18.0	14.0	15.0	13.8	33.0		
6	13.0	12.0	12.0	7.0	12.0	18.0	25.0	25.0	10.0	22.0	26.0	22.0	15.0	14.0	16.0	29.0	28.0	18.0	23.0	33.0	19.0	30.0	38.0	44.0	21.3	44.0	
7	57.0	67.0	43.0	32.0	57.0	52.0	51.0	50.0	73.0	79.0	34.0	43.0	50.0	21.0	24.0	20.0	29.0	30.0	16.0	15.0	12.0	18.0	13.0	25.0	38.0	79.0	
8	10.0	8.0	6.0	4.0	17.0	44.0	46.0	32.0	19.0	29.0	37.0	50.0	48.0	39.0	36.0	26.0	X	31.0	17.0	20.0	36.0	33.0	25.0	11.0	27.1	50.0	
9	22.0	6.0	7.0	5.0	11.0	7.0	5.0	10.0	13.0	7.0	10.0	8.0	6.0	15.0	15.0	32.0	23.0	11.0	22.0	7.0	7.0	9.0	6.0	9.0	11.4	32.0	
10	11.0	17.0	17.0	17.0	22.0	28.0	35.0	65.0	40.0	38.0	54.0	83.0	128.0	236.0	151.0	145.0	101.0	55.0	112.0	123.0	100.0	65.0	82.0	116.0	76.7	236.0	
11	119.0	44.0	42.0	53.0	11.0	6.0	0.0	0.0	0.0	0.0	17.0	17.0	12.0	11.0	10.0	13.0	21.0	20.0	7.0	6.0	2.0	3.0	11.0	13.0	18.3	119.0	
12	14.0	8.0	9.0	9.0	6.0	3.0	0.0	2.0	10.0	14.0	7.0	11.0	15.0	27.0	26.0	27.0	27.0	2.0	28.0	20.0	10.0	9.0	8.0	15.0	12.8	28.0	
13	8.0	48.0	31.0	28.0	30.0	9.0	6.0	5.0	4.0	43.0	20.0	6.0	24.0	123.0	9.0	6.0	19.0	8.0	14.0	9.0	9.0	6.0	4.0	1.0	19.6	123.0	
14	4.0	5.0	4.0	2.0	5.0	4.0	7.0	18.0	19.0	21.0	37.0	52.0	22.0	29.0	17.0	6.0	11.0	8.0	25.0	10.0	24.0	26.0	9.0	8.0	15.5	52.0	
15	21.0	14.0	17.0	3.0	17.0	1.0	7.0	31.0	26.0	19.0	45.0	133.0	53.0	16.0	11.0	7.0	14.0	30.0	9.0	5.0	3.0	4.0	12.0	20.0	21.6	133.0	
16	12.0	8.0	9.0	9.0	21.0	16.0	15.0	16.0	48.0	49.0	56.0	54.0	57.0	39.0	54.0	33.0	27.0	16.0	18.0	26.0	60.0	82.0	94.0	78.0	37.4	94.0	
17	74.0	73.0	42.0	52.0	40.0	31.0	34.0	35.0	28.0	27.0	28.0	32.0	39.0	53.0	19.0	27.0	11.0	9.0	9.0	20.0	23.0	24.0	53.0	25.0	33.7	74.0	
18	28.0	37.0	54.0	13.0	9.0	4.0	1.0	3.0	12.0	7.0	6.0	29.0	21.0	19.0	29.0	21.0	17.0	8.0	7.0	8.0	9.0	9.0	9.0	6.0	15.3	54.0	
19	3.0	5.0	4.0	2.0	17.0	1.0	0.0	5.0	12.0	18.0	27.0	21.0	15.0	49.0	87.0	75.0	63.0	17.0	1.0	3.0	6.0	6.0	5.0	3.0	18.5	87.0	
20	10.0	6.0	2.0	3.0	4.0	24.0	2.0	10.0	24.0	22.0	24.0	42.0	52.0	64.0	56.0	42.0	61.0	21.0	21.0	28.0	38.0	2.0	3.0	6.0	23.6	64.0	
21	3.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	24.0	30.0	50.0	26.0	38.0	48.0	65.0	46.0	28.0	42.0	33.0	48.0	50.0	38.0	66.0	62.0	29.2	66.0	
22	46.0	102.0	107.0	56.0	86.0	30.0	72.0	55.0	82.0	199.0	165.0	85.0	107.0	93.0	76.0	80.0	85.0	27.0	75.0	134.0	204.0	79.0	114.0	170.0	97.0	204.0	
23	89.0	146.0	274.0	305.0	262.0	162.0	132.0	367.0	474.0	680.0	709.0	367.0	302.0	493.0	493.0	C	C	83.0	114.0	206.0	148.0	78.0	162.0	197.0	283.8	709.0	
24	276.0	263.0	324.0	104.0	126.0	68.0	27.0	25.0	14.0	29.0	22.0	32.0	35.0	33.0	23.0	26.0	25.0	11.0	6.0	2.0	3.0	17.0	11.0	7.0	62.9	324.0	
25	3.0	1.0	0.0	5.0	10.0	7.0	5.0	3.0	8.0	21.0	23.0	17.0	30.0	9.0	6.0	5.0	4.0	3.0	10.0	7.0	4.0	25.0	0.0	2.0	8.7	30.0	
26	52.0	65.0	104.0	94.0	64.0	85.0	84.0	29.0	40.0	32.0	47.0	42.0	17.0	27.0	37.0	30.0	18.0	23.0	48.0	27.0	27.0	11.0	12.0	13.0	42.8	104.0	
27	9.0	16.0	21.0	15.0	11.0	11.0	44.0	28.0	14.0	15.0	24.0	16.0	32.0	22.0	18.0	21.0	27.0	23.0	18.0	30.0	63.0	68.0	321.0	501.0	57.0	501.0	
28	260.0	320.0	347.0	276.0	123.0	173.0	135.0	157.0	154.0	147.0	114.0	150.0	118.0	112.0	91.0	66.0	57.0	22.0	6.0	12.0	8.0	7.0	31.0	44.0	122.1	347.0	
29	46.0	44.0	22.0	7.0	6.0	9.0	12.0	7.0	15.0	10.0	13.0	12.0	7.0	20.0	13.0	27.0	13.0	7.0	18.0	10.0	38.0	29.0	26.0	10.0	17.5	46.0	
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	27	29	29	29	29	29	29	29	29	693	100%
MEAN	49.6	52.0	55.0	40.4	36.4	29.7	28.9	36.4	42.3	55.8	58.0	50.0	48.0	62.2	55.3	37.3	33.4	22.2	24.3	29.3	32.3	25.3	40.1	49.6			
MAX	276.0	320.0	347.0	305.0	262.0	173.0	135.0	367.0	474.0	680.0	709.0	367.0	302.0	493.0	493.0	154.0	111.0	83.0	114.0	206.0	204.0	82.0	321.0	501.0			



Number of 24HR Exceedences	2	Proposed Guideline
Number of Non-Zero Readings	667	
Maximum 1-HR Average	709.0 UG/M3	
Maximum 24-HR Average	283.8 UG/M3	
IZS Calibration Time		Operational Time 695 HRS
Down Time	0	Operational Uptime 99.9 %
Standard Deviation	72.63	Monthly Average 41.4 UG/M3

West PM_{2.5} (µg/m³) – February 2024

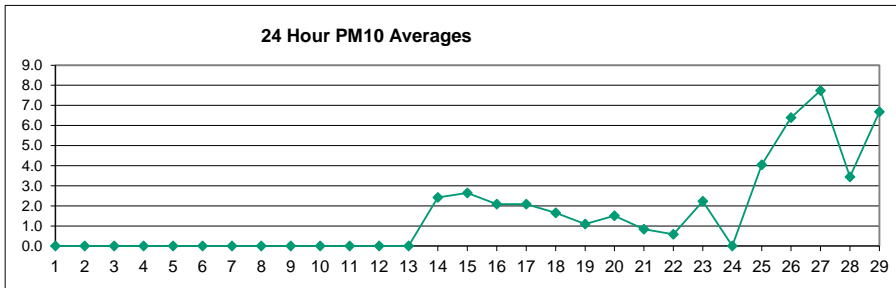
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	3.9	0.6	3.0	3.2	2.9	0.9	0.9	1.6	-	-
14	1.0	1.0	1.0	0.7	0.7	0.8	0.6	0.6	0.8	1.1	1.2	2.8	3.2	1.3	2.8	5.7	2.1	3.8	3.3	3.3	3.1	3.0	2.4	1.0	2.0	5.7
15	4.0	3.3	3.6	2.5	1.7	1.1	2.0	0.9	1.2	1.2	2.0	2.1	2.2	0.8	0.8	1.2	3.2	2.5	3.2	6.7	5.7	1.7	0.7	1.3	2.3	6.7
16	1.1	0.9	0.7	0.6	0.6	0.5	1.0	1.3	1.9	2.1	1.9	2.5	4.5	2.8	2.8	2.6	2.4	2.3	2.3	1.6	1.4	1.2	1.5	2.0	1.8	4.5
17	2.7	2.4	2.2	1.9	1.9	1.7	1.6	1.6	1.8	2.6	2.2	2.0	1.7	1.8	1.5	1.6	1.3	1.4	1.8	2.2	2.3	2.2	1.6	1.9	1.9	2.7
18	2.0	1.5	1.6	1.3	1.2	1.1	1.1	1.0	1.3	1.4	1.7	1.4	1.4	1.0	1.2	1.0	0.9	1.2	2.1	2.8	2.5	2.1	2.0	1.3	1.5	2.8
19	1.2	1.2	1.0	1.0	0.9	0.8	1.1	1.0	1.5	1.2	1.0	1.3	1.3	1.0	0.8	0.8	0.8	0.7	2.0	1.6	0.9	0.7	0.6	0.7	1.1	2.0
20	0.8	0.8	1.0	1.4	1.7	2.0	2.1	2.1	1.6	2.4	3.6	3.8	2.8	1.0	1.0	0.7	0.3	0.5	0.7	0.8	0.7	0.9	0.8	0.7	1.4	3.8
21	0.3	0.4	0.3	0.4	0.5	0.7	0.5	1.2	2.5	1.9	2.3	2.8	1.8	0.3	0.8	0.6	0.5	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.8	2.8
22	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.8	1.6	1.4	0.8	0.6	0.6	0.5	0.6	0.6	0.3	0.4	0.4	0.6	0.4	0.5	0.4	0.6	1.6
23	0.3	0.3	0.4	0.3	0.4	0.4	0.6	4.3	5.6	11.9	2.0	1.5	1.2	0.7	0.7	0.8	0.6	0.5	0.5	0.7	0.5	X	X	X	1.6	11.9
24	X	X	X	X	X	X	X	X	X	X	X	X	X	6.1	5.3	3.6	2.7	1.2	2.3	1.4	2.2	7.3	5.5	5.8	-	-
25	3.6	4.9	3.8	5.0	7.8	6.8	4.8	5.1	5.9	10.0	12.8	11.7	6.5	1.5	0.9	0.4	0.5	0.4	0.9	1.5	1.3	0.4	0.2	4.0	12.8	
26	3.9	2.8	5.4	1.9	0.9	2.3	2.3	7.0	8.5	5.3	9.4	9.6	6.5	5.4	5.3	7.1	3.0	3.5	4.7	3.5	2.8	2.2	3.3	3.9	4.6	9.6
27	3.4	4.7	5.3	4.1	4.6	5.7	7.7	7.1	7.2	8.6	6.7	7.0	7.1	7.2	7.2	6.9	6.9	6.6	7.0	7.2	6.4	7.9	2.5	2.5	6.1	8.6
28	3.4	4.9	7.1	10.1	6.1	7.7	2.3	2.3	1.7	1.2	1.9	1.8	1.4	1.5	0.9	0.6	0.5	1.1	0.7	0.5	0.6	0.5	0.6	0.6	2.5	10.1
29	1.3	3.9	9.1	8.8	8.6	10.0	8.4	3.3	7.4	7.5	5.8	4.1	2.9	1.7	1.1	5.6	7.1	2.2	3.8	5.5	1.9	2.6	5.8	2.7	5.1	10.0
NO.	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	17	17	17	17	17	16	16	16	376	54%
MEAN	1.9	2.2	2.9	2.7	2.5	2.8	2.4	2.6	3.3	4.0	3.7	3.7	3.0	2.2	2.1	2.5	2.2	1.7	2.3	2.5	2.1	2.2	1.8	1.7		
MAX	4.0	4.9	9.1	10.1	8.6	10.0	8.4	7.1	8.5	11.9	12.8	11.7	7.1	7.2	7.2	7.1	7.1	6.6	7.0	7.2	6.4	7.9	5.8	5.8		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	376	
Maximum 1-HR Average	12.8 UG/M3	
Maximum 24-HR Average	6.1 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	2.42	Monthly Average
		376 HRS
		54.0 %
		2.5 UG/M3

West PM₁₀ (µg/m³) – February 2024

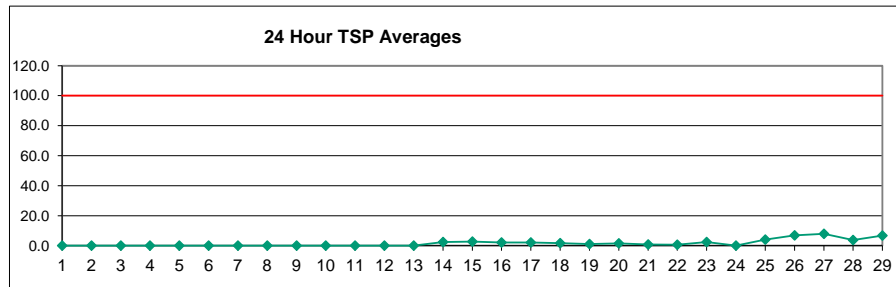
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	5.3	0.6	3.3	3.9	3.3	0.9	0.9	1.6	-	-
14	1.0	1.0	1.0	0.7	0.7	0.8	0.6	0.6	0.8	1.1	1.2	3.7	4.6	1.4	4.1	8.4	3.0	5.6	4.8	3.3	3.1	3.1	2.4	1.0	2.4	8.4
15	4.0	3.3	3.6	2.5	1.7	1.1	2.0	0.9	1.2	1.2	2.2	2.1	2.3	0.8	0.8	1.2	4.7	3.0	3.5	10.0	7.9	1.7	0.7	1.3	2.6	10.0
16	1.1	0.9	0.7	0.6	0.6	0.5	1.0	1.3	2.2	2.4	2.3	3.1	6.2	3.2	3.5	3.0	2.7	3.1	3.1	1.9	1.7	1.2	1.8	2.3	2.1	6.2
17	3.1	2.6	2.3	1.9	1.9	1.7	1.6	1.6	1.8	2.8	2.4	2.4	2.2	2.3	2.0	1.9	1.4	1.6	2.1	2.4	2.3	2.3	1.6	1.9	2.1	3.1
18	2.0	1.5	1.6	1.3	1.2	1.1	1.1	1.0	1.3	1.4	1.8	1.4	1.5	1.1	1.5	1.1	1.0	1.6	2.8	3.8	2.9	2.3	2.0	1.3	1.7	3.8
19	1.2	1.2	1.0	1.0	0.9	0.8	1.1	1.0	1.5	1.2	1.0	1.3	1.3	1.0	0.8	0.8	0.7	2.6	2.0	0.9	0.7	0.6	0.7	1.1	2.6	0.7
20	0.8	0.8	1.0	1.4	1.7	2.0	2.1	2.1	1.6	2.4	3.6	4.1	3.5	1.2	1.3	0.8	0.3	0.6	0.8	0.8	0.7	0.9	0.8	0.7	1.5	4.1
21	0.3	0.4	0.3	0.4	0.5	0.7	0.5	1.2	2.5	1.9	2.3	2.8	1.8	0.3	1.0	0.7	0.6	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.8	2.8
22	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.8	1.7	1.6	0.8	0.6	0.6	0.5	0.6	0.7	0.3	0.4	0.4	0.6	0.4	0.5	0.4	0.6	1.7
23	0.3	0.3	0.4	0.3	0.4	0.4	0.6	6.3	8.2	17.6	3.0	2.1	1.6	0.8	0.8	0.9	0.6	0.5	0.5	0.7	0.5	X	X	X	2.2	17.6
24	X	X	X	X	X	X	X	X	X	X	X	X	X	8.9	7.7	4.8	3.4	1.3	2.5	1.4	2.2	7.3	5.5	5.8	-	-
25	3.6	4.9	3.8	5.0	7.8	6.8	4.8	5.1	5.9	10.0	12.8	11.7	6.5	1.5	0.9	0.4	0.5	0.5	0.4	0.9	1.5	1.3	0.4	0.2	4.0	12.8
26	5.4	3.4	7.6	2.4	1.0	3.4	3.4	10.3	11.8	7.6	13.5	13.4	9.5	8.0	7.8	10.2	3.9	5.0	6.8	4.8	3.4	2.2	4.0	4.6	6.4	13.5
27	3.4	5.8	6.6	4.1	4.6	7.1	9.6	8.4	9.2	11.0	9.6	9.0	10.1	10.1	10.0	9.5	8.9	7.8	8.3	8.8	6.4	10.3	3.6	3.6	7.7	11.0
28	4.9	7.3	10.6	15.1	9.2	11.6	3.3	3.4	2.3	1.3	2.0	1.8	1.4	1.5	0.9	0.6	0.5	1.3	0.7	0.5	0.6	0.5	0.6	0.6	3.4	15.1
29	1.4	5.4	13.5	13.1	12.7	14.8	12.5	3.8	10.4	9.7	8.5	5.6	4.1	2.1	1.2	6.3	8.8	2.3	4.0	6.9	2.0	2.6	6.1	2.7	6.7	14.8
NO.	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	17	17	17	17	17	16	16	16	376	54%
MEAN	2.2	2.6	3.6	3.3	3.0	3.5	3.0	3.2	4.1	4.9	4.5	4.4	3.8	2.8	2.8	3.2	2.8	2.1	2.7	3.1	2.4	2.4	2.0	1.8		
MAX	5.4	7.3	13.5	15.1	12.7	14.8	12.5	10.3	11.8	17.6	13.5	13.4	10.1	10.1	10.0	10.2	8.9	7.8	8.3	10.0	7.9	10.3	6.1	5.8		



Number of Non-Zero Readings	376
Maximum 1-HR Average	17.6 UG/M3
Maximum 24-HR Average	7.7 UG/M3
IZS Calibration Time	0
Down Time	0
Standard Deviation	3.3
OperatioEI Time	376 HRS
OperatioEI Uptime	54.0 %
Monthly Average	3.1 UG/M3

West TSP ($\mu\text{g}/\text{m}^3$) – February 2024

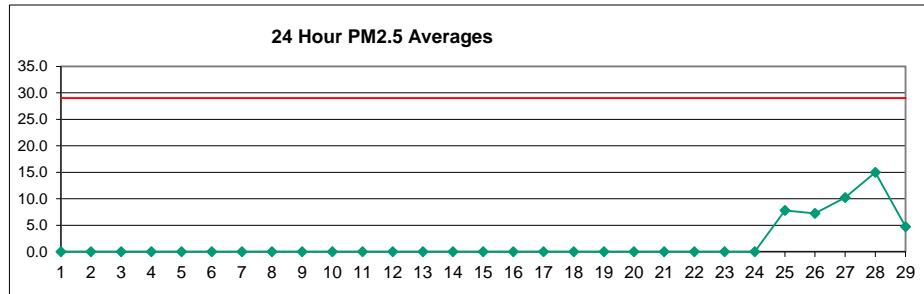
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	5.3	0.6	3.3	3.9	3.3	0.9	0.9	1.6	-	-
14	1.0	1.0	1.0	0.7	0.7	0.8	0.6	0.6	0.8	1.1	1.2	3.7	4.7	1.4	4.1	9.2	3.0	6.0	4.8	3.3	3.1	3.1	2.4	1.0	2.5	9.2
15	4.0	3.3	3.6	2.5	1.7	1.1	2.0	0.9	1.2	1.2	2.2	2.1	2.3	0.8	0.8	1.2	4.8	3.0	3.5	10.7	7.9	1.7	0.7	1.3	2.7	10.7
16	1.1	0.9	0.7	0.6	0.6	0.5	1.0	1.3	2.2	2.4	2.3	3.1	6.2	3.2	3.5	3.0	2.7	3.1	3.1	1.9	1.7	1.2	1.8	2.3	2.1	6.2
17	3.1	2.6	2.3	1.9	1.9	1.7	1.6	1.6	1.8	2.8	2.4	2.4	2.2	2.3	2.0	1.9	1.4	1.6	2.1	2.4	2.3	2.3	1.6	1.9	2.1	3.1
18	2.0	1.5	1.6	1.3	1.2	1.1	1.1	1.0	1.3	1.4	1.8	1.4	1.5	1.1	1.5	1.1	1.0	1.6	2.8	3.8	2.9	2.3	2.0	1.3	1.7	3.8
19	1.2	1.2	1.0	1.0	0.9	0.8	1.1	1.0	1.5	1.2	1.0	1.3	1.3	1.0	0.8	0.8	0.7	2.6	2.0	0.9	0.7	0.6	0.7	0.7	1.1	2.6
20	0.8	0.8	1.0	1.4	1.7	2.0	2.1	2.1	1.6	2.4	3.6	4.1	3.5	1.2	1.3	0.8	0.3	0.6	0.8	0.8	0.7	0.9	0.8	0.7	1.5	4.1
21	0.3	0.4	0.3	0.4	0.5	0.7	0.5	1.2	2.5	1.9	2.3	2.8	1.8	0.3	1.0	0.7	0.6	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.8	2.8
22	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.8	1.7	1.6	0.8	0.6	0.6	0.5	0.6	0.7	0.3	0.4	0.4	0.6	0.4	0.5	0.4	0.6	1.7
23	0.3	0.3	0.4	0.3	0.4	0.4	0.6	7.1	9.3	20.5	3.1	2.1	1.6	0.8	0.8	0.9	0.6	0.5	0.5	0.7	0.5	X	X	X	2.5	20.5
24	X	X	X	X	X	X	X	X	X	X	X	X	X	9.5	8.0	4.8	3.4	1.3	2.5	1.4	2.2	7.3	5.5	5.8	-	-
25	3.6	4.9	3.8	5.0	7.8	6.8	4.8	5.1	5.9	10.0	12.8	11.7	6.5	1.5	0.9	0.4	0.5	0.5	0.4	0.9	1.5	1.3	0.4	0.2	4.0	12.8
26	5.8	3.4	7.9	2.4	1.0	3.5	3.4	11.3	13.6	8.7	15.4	15.3	10.0	8.3	8.2	10.9	3.9	5.0	6.9	4.8	3.4	2.2	4.0	4.6	6.8	15.4
27	3.4	5.8	6.6	4.1	4.6	7.1	9.7	8.4	9.2	12.1	9.6	9.0	10.1	10.1	10.6	9.5	8.9	7.8	8.3	8.8	6.4	11.5	3.7	3.7	7.9	12.1
28	5.2	8.2	12.3	17.6	10.6	13.4	3.4	3.4	2.3	1.3	2.0	1.8	1.4	1.5	0.9	0.6	0.5	1.3	0.7	0.5	0.6	0.5	0.6	0.6	3.8	17.6
29	1.4	5.4	13.7	13.1	12.7	15.4	12.9	3.8	10.4	9.7	8.5	5.6	4.1	2.1	1.2	6.3	8.8	2.3	4.0	6.9	2.0	2.6	6.1	2.7	6.7	15.4
NO.	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	17	17	17	17	17	16	16	16	16	376	54%
MEAN	2.2	2.7	3.8	3.5	3.1	3.7	3.0	3.3	4.3	5.2	4.6	4.5	3.8	2.9	2.9	3.3	2.8	2.1	2.8	3.2	2.4	2.5	2.0	1.8		
MAX	5.8	8.2	13.7	17.6	12.7	15.4	12.9	11.3	13.6	20.5	15.4	15.3	10.1	10.1	10.6	10.9	8.9	7.8	8.3	10.7	7.9	11.5	6.1	5.8		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	376	
Maximum 1-HR Average	20.5 UG/M3	
Maximum 24-HR Average	7.9 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	3.491	Monthly Average
		376 HRS
		54.0 %
		3.2 UG/M3

Entrance PM_{2.5} (µg/m³) – February 2024

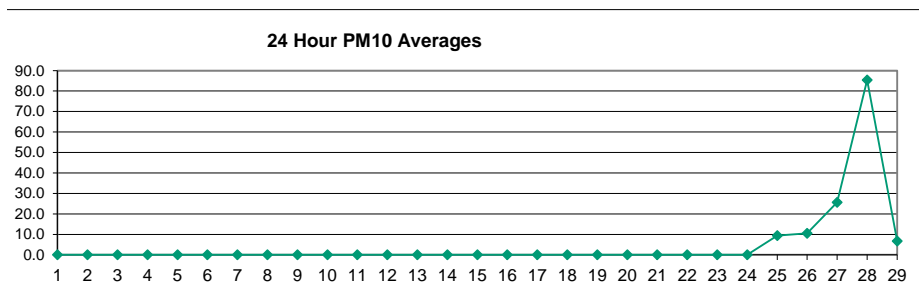
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
23	G	G	G	G	G	G	G	G	G	G	G	G	G	Y	Y	Y	R	R	R	R	R	R	R	R	-	-
24	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-	-
25	9.5	8.0	6.5	7.5	12.1	9.1	6.4	5.6	9.5	14.8	18.0	17.2	12.2	5.8	2.1	1.4	1.9	2.4	3.9	4.8	4.6	6.5	5.5	11.6	7.8	18.0
26	9.0	8.4	23.4	37.2	2.7	2.5	2.6	2.6	3.3	3.2	4.3	4.9	4.1	7.2	6.6	4.3	3.3	4.5	10.0	7.0	5.8	3.6	6.1	7.3	7.2	37.2
27	5.6	9.6	9.4	5.9	6.9	8.3	14.6	13.8	14.7	21.9	7.1	7.2	X	8.2	7.4	7.2	8.0	9.7	10.5	11.1	15.1	12.6	10.2	9.8	10.2	21.9
28	17.5	24.3	31.0	21.2	13.7	13.7	5.4	4.5	4.5	5.0	3.8	3.7	3.0	5.9	3.1	2.4	2.2	30.6	35.6	22.4	26.6	49.8	17.6	12.9	15.0	49.8
29	10.2	10.6	11.4	6.2	4.7	3.7	4.9	5.6	5.6	5.4	4.6	3.0	2.3	4.2	3.6	5.2	2.5	2.0	2.5	1.6	3.9	4.2	3.1	2.7	4.7	11.4
NO.	5	5	5	5	5	5	5	5	5	5	5	5	4	5	6	6	6	6	6	6	6	6	6	6	129	19%
MEAN	10.4	12.2	16.3	15.6	8.0	7.4	6.8	6.4	7.5	10.0	7.6	7.2	5.4	6.2	5.4	4.7	4.6	9.3	11.1	8.3	9.9	14.9	8.4	8.6		
MAX	17.5	24.3	31.0	37.2	13.7	13.7	14.6	13.8	14.7	21.9	18.0	17.2	12.2	8.2	9.4	8.1	9.8	30.6	35.6	22.4	26.6	49.8	17.6	12.9		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	129	
Maximum 1-HR Average	49.8 UG/M3	
Maximum 24-HR Average	15.0 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	7.77	Operational Uptime
		Monthly Average
		129 HRS
		18.5 %
		8.8 UG/M3

Entrance PM₁₀ (µg/m³) – February 2024

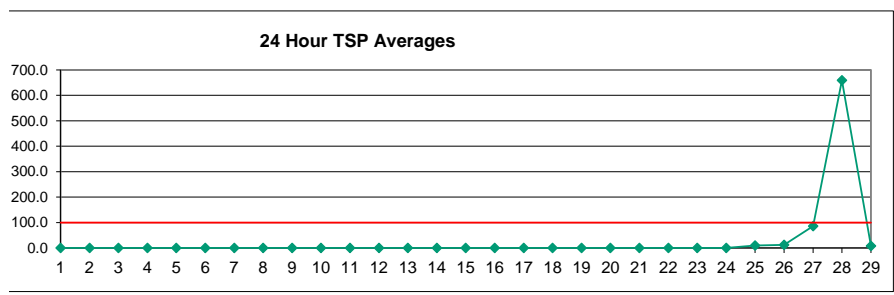
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
23	G	G	G	G	G	G	G	G	G	G	G	G	G	Y	Y	Y	R	R	R	R	R	R	R	R	-	-	
24	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	13.9	11.8	14.5	9.4	5.9	3.4	3.3	16.0	9.4	7.7	-	-
25	10.1	8.1	6.5	7.5	12.1	9.1	6.4	5.6	9.5	16.0	18.0	18.7	21.4	14.2	3.9	1.9	2.4	3.4	5.7	5.4	4.6	9.6	8.2	17.3	9.4	21.4	
26	12.9	12.3	34.5	55.3	3.2	3.3	3.7	3.8	4.8	4.7	6.4	7.3	6.2	10.8	9.7	6.2	4.6	6.5	14.6	10.1	8.2	4.1	8.6	10.4	10.5	55.3	
27	7.6	13.6	13.2	7.1	9.0	11.3	20.8	19.7	19.3	33.3	18.2	16.3	X	20.1	19.3	14.7	19.8	24.6	33.3	23.2	44.5	41.3	61.6	98.3	25.6	98.3	
28	206.3	272.6	367.0	237.9	133.1	130.1	44.2	28.8	33.1	35.5	19.8	17.2	14.3	24.0	13.0	9.2	7.5	145.1	118.7	33.2	39.7	74.7	26.2	19.1	85.4	367.0	
29	15.3	15.9	17.1	9.3	6.9	5.4	7.2	7.6	8.3	8.1	6.8	4.5	3.4	6.2	5.1	7.1	2.8	2.3	3.4	1.6	5.4	5.9	3.7	2.8	6.8	17.1	
NO.	5	5	5	5	5	5	5	5	5	5	5	5	4	5	6	6	6	6	6	6	6	6	6	6	129	19%	
MEAN	50.4	64.5	87.7	63.4	32.9	31.8	16.5	13.1	15.0	19.5	13.8	12.8	11.3	15.1	10.8	8.5	8.6	31.9	30.3	12.8	17.6	25.3	19.6	25.9			
MAX	206.3	272.6	367.0	237.9	133.1	130.1	44.2	28.8	33.1	35.5	19.8	18.7	21.4	24.0	19.3	14.7	19.8	145.1	118.7	33.2	44.5	74.7	61.6	98.3			



Number of Non-Zero Readings	129
Maximum 1-HR Average	367.0 UG/M3
Maximum 24-HR Average	85.4 UG/M3
Monthly Calibration	0
Standard Deviation	51.63
Operational Time	129 HRS
Operational Uptime	18.5 %
Monthly Average	26.2 UG/M3

Entrance TSP ($\mu\text{g}/\text{m}^3$) – February 2024

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	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
23	G	G	G	G	G	G	G	G	G	G	G	G	G	Y	Y	Y	R	R	R	R	R	R	R	R	-	-
24	R	R	R	R	R	R	R	R	R	R	R	R	R	R	16.2	13.9	18.3	11.2	5.9	3.4	3.3	16.0	9.4	7.7	-	-
25	10.1	8.1	6.5	7.5	12.1	9.1	6.4	5.6	9.5	16.0	18.0	18.7	21.5	17.3	9.1	1.9	2.4	3.4	6.3	5.4	4.6	10.0	10.1	22.1	10.1	22.1
26	15.8	15.1	43.7	70.2	3.2	3.3	3.7	3.9	5.1	5.4	7.4	8.4	7.4	13.7	11.3	7.2	4.7	7.4	18.4	12.3	9.6	4.1	9.6	12.2	12.6	70.2
27	8.0	15.8	15.4	7.1	9.0	12.9	25.6	23.8	20.2	88.2	94.1	41.3	X	42.5	57.2	38.3	69.7	58.4	82.2	40.2	97.0	110.2	359.9	665.9	86.2	665.9
28	1921.8	2477.2	3322.5	2524.1	1404.0	1379.0	418.9	218.5	342.6	275.2	123.4	155.3	124.7	120.5	114.9	84.8	30.4	309.6	220.3	41.9	50.6	96.3	33.3	24.1	658.9	3322.5
29	19.4	20.5	21.8	10.5	7.0	6.2	7.4	7.6	9.5	9.4	8.1	5.3	3.9	7.5	5.6	7.8	2.8	2.3	3.4	1.6	6.1	6.5	3.7	2.8	7.8	21.8
NO.	5	5	5	5	5	5	5	5	5	5	5	5	4	5	6	6	6	6	6	6	6	6	6	6	129	19%
MEAN	395.0	507.3	682.0	523.9	287.1	282.1	92.4	51.9	77.4	78.9	50.2	45.8	39.4	40.3	35.7	25.7	21.4	65.4	56.1	17.5	28.5	40.5	71.0	122.5		
MAX	1921.8	2477.2	3322.5	2524.1	1404.0	1379.0	418.9	218.5	342.6	275.2	123.4	155.3	124.7	120.5	114.9	84.8	69.7	309.6	220.3	41.9	97.0	110.2	359.9	665.9		



Number of 24HR Exceedences	1	Proposed Guideline
Number of Non-Zero Readings	129	
Maximum 1-HR Average	3322.5 UG/M3	
Maximum 24-HR Average	658.9 UG/M3	
Monthly Calibration	0	
Standard Deviation	482.0	
Operational Time	129 HRS	
Operational Uptime	18.5 %	
Monthly Average	144.4 UG/M3	