

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

MAY 2022

JUNE 24, 2022





AMBIENT AIR QUALITY MONTHLY REPORT

MAY 2022

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: JUNE 24, 2022

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

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



June 24, 2022

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – May 2022

The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Lagoon Station for May 2022.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	99.6%	-	1
PM _{2.5}	99.6%	0	0
PM ₁₀	99.6%	-	-
NO	99.7%	-	-
NO ₂	99.7%	0	-
NO _x	99.7%	-	-
SO ₂	99.7%	0	0
Temperature	99.7%	-	-
Wind Speed / Direction	99.7%	-	-
Pressure	99.7%	-	-
Relative Humidity	99.7%	-	-
Precipitation	99.7%	-	-

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F: +1 604 683-8655
wsp.com

The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Windridge Station for May 2022.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	100%	-	-	5
PM_{2.5}	100%	0	0	-
PM₁₀	100%	-	-	-

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 reported exceedances of the Guidelines at the GRIMM Monitors for May 2022.

GRIMM Stations	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of PM _{2.5} Guidelines	Exceedances of PM _{2.5} Guidelines	Exceedances of TSP Guidelines
West	100%	0	0	0
Berm	100%	4	2	16
Entrance	100%	0	0	13

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



June 24, 2022

Dylan Weyell, B.A.
Junior Air Quality Specialist, Environment

Date

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



June 24, 2022

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

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge's Approval 1702-02-04. This report contains data collected between May 1, 2022 and May 31, 2022.

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

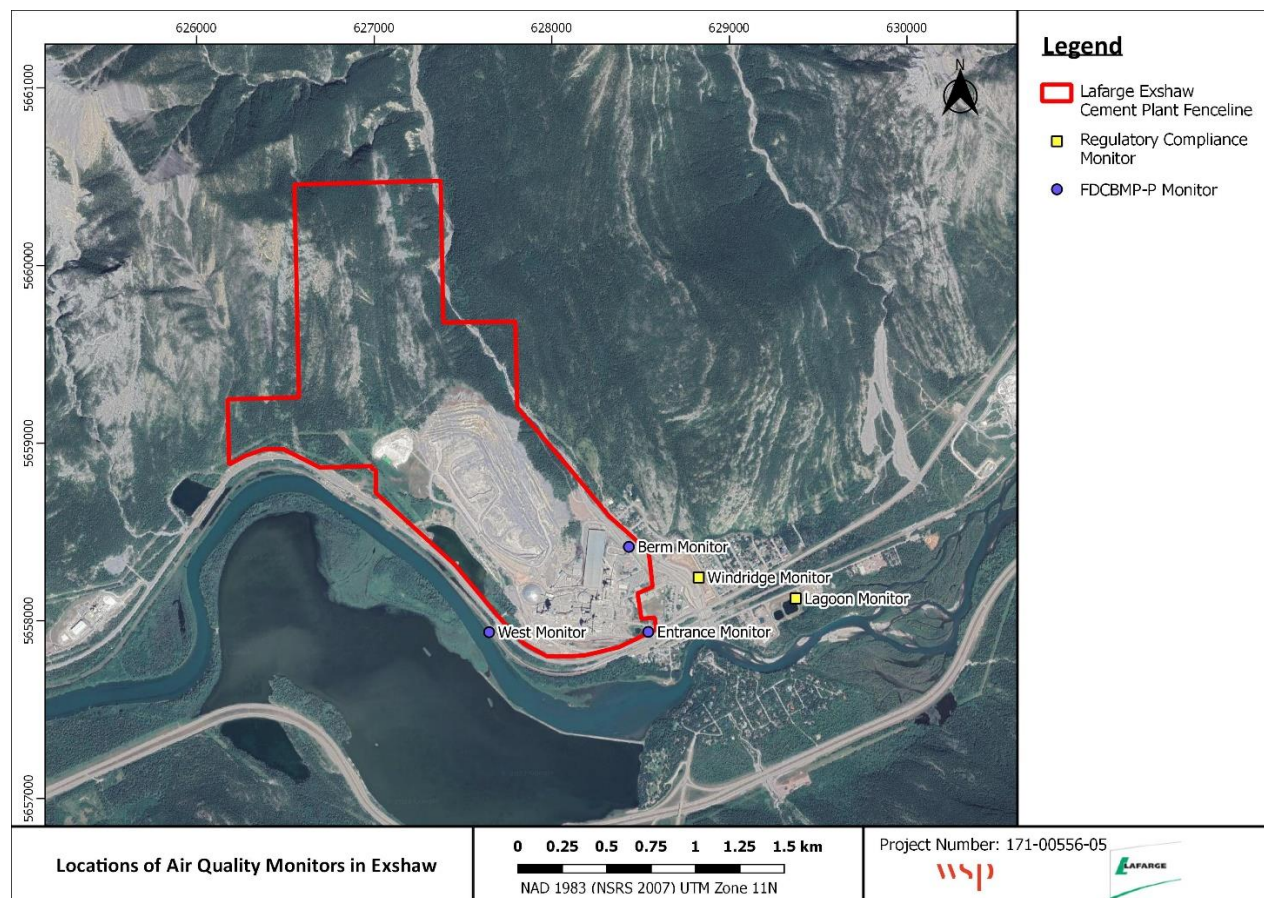


Figure 1-1 Locations of Air Quality Monitors in Exshaw

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 MAY 2022 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
NO ₂ (ppb)	99.7	26.7	0	10.7	-
SO ₂ (ppb)	99.7	12.3	0	2.6	0
PM _{2.5} (µg/m ³)	99.6	31.6	0 ¹	4.8	0
PM ₁₀ (µg/m ³)	99.6	471.0	-	93.7	-
TSP (µg/m ³)	99.6	921.8	-	127.7	1
Temperature (°C)	99.7	17.8	-	13.4	-
Wind Speed (km/hr) /Direction (Degrees)	99.7	46.0/W	-	33.7/WSW	-
Precipitation (mm)	99.7	6.8 ²	-	20 ³	-

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

² Maximum Daily Total Accumulation of Precipitation (mm)

³ Monthly Total Accumulation of Precipitation (mm)

Data Quality Notes:

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

Calibration/Maintenance Notes:

- At the Lagoon station the NO₂, SO₂ and meteorological sensors recorded 99.7% uptime for the month of May due to two hours of power failure occurring on May 4th at 5:00 & 6:00.
- The TSP, PM₁₀, PM_{2.5} analyzers recorded 99.6% uptime for the month of May due to two hours of power failure occurring on May 4th at 5:00 & 6:00. And additionally, one hour of equipment malfunction occurring on May 14th at 2:00.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	100.0	63.0	0*	10.6	0
PM ₁₀ (µg/m ³)	100.0	485.0	-	223.7	-
TSP (µg/m ³)	100.0	985.0	-	341.8	5

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

Data Quality Notes:

- There was zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There was zero hours exceeding the 1-hour PM_{2.5} AAAQG.
- There were 5 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The TSP, PM₁₀ and PM_{2.5} monitor recorded 100% uptime during the month of May.

2.3 WEST GRIMM

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

Table 2-3 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	100.0	13.9	0*	8.3	0
PM ₁₀ (µg/m ³)	100.0	28.4	-	12.1	-
TSP (µg/m ³)	100.0	41.3	-	13.7	0

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

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

2.4 BERM GRIMM

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

Table 2-4 Berm station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	100.0	136.4	4*	43.2	2
PM ₁₀ (µg/m ³)	100.0	1221.6	-	375.3	-
TSP (µg/m ³)	100.0	3168.4	-	1059.0	16

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

Data Quality Notes:

- There were two exceedances of the 24-hour PM_{2.5} Guidelines.
- There were four exceedances of the 1-hour PM_{2.5} Guidelines.

- There were 16 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

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

2.5 ENTRANCE GRIMM

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

Table 2-5 Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	100.0	58.9	0*	21.6	0
PM ₁₀ (µg/m ³)	100.0	464.4	-	152.1	-
TSP (µg/m ³)	100.0	1565.1	-	306.5	13

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

Data Quality Notes:

- There were zero exceedances of the 24-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 1-hour PM_{2.5} Guidelines.
- There were 13 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

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

3 LAGOON STATION

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

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-9) and tables and graphs illustrating the monitoring results for May 2022.

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

3.1 OPERATIONAL SUMMARY

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

Table 3-1 Instrumentation List at the Lagoon Station

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on May 13 th . The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00. And additionally, one hour of equipment malfunction occurring on May 14 th at 2:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on May 13 th . The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00. And additionally, one hour of equipment malfunction occurring on May 14 th at 2:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 13 th . The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00. And additionally, one hour of equipment malfunction occurring on May 14 th at 2:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on May 4 th . The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on May 4 th . The monitor had 99.6% uptime for the month of May

		due to two hours of power failure occurring on May 4 th at 5:00 & 6:00.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00.
Wind Speed	MetOne Wind Sensor	The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00.
Wind Direction		
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 99.6% uptime for the month of May due to two hours of power failure occurring on May 4 th at 5:00 & 6:00.



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

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in May 2022. Figure 3-2 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-8 shows daily average concentrations recorded during May 2022 for the pollutants listed in Table 3-2. Table 3-3 summarizes the recorded exceedance. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

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

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is zero and zero, respectively.

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

Table 3-2 Summary of May 2022 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/h r)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	0.3	6.3	26.7	26	10	11.8	249.7	10.7	3	99.7
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	1.2	12.3	26	10	11.8	249.7	2.6	18	99.7
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	1.7	31.6	6	11	45.7	248.4	4.8	6	99.6
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	18.4	471.0	6	11	45.7	248.4	93.7	6	99.6
TSP (µg/m ³)	-	100	Lagoon	-	1	0.0	31.8	921.8	6	11	45.7	248.4	127.7	6	99.6
Temperature (°C)	-	-	Lagoon	-	-	-2.0	8.6	17.8	26	16	22.2	239.4	13.4	4	99.7
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.4	15.1	46.0/W	6	8	46.0	249.3	33.7/WSW	6	99.7
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	6.8	9	12	14.6	69.3	20.0	-	99.7

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2022-05-06	127.7	-	258.1	33.7	34.0	High wind event
Total # of Exceedances	1	0				
Maximum # of Exceedances (May)	0 (2010 - 2021)	1 (2019)				
Average # of Exceedances (May)	0	0				
Minimum # of Exceedances (May)	0 (2010 - 2021)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2021)				

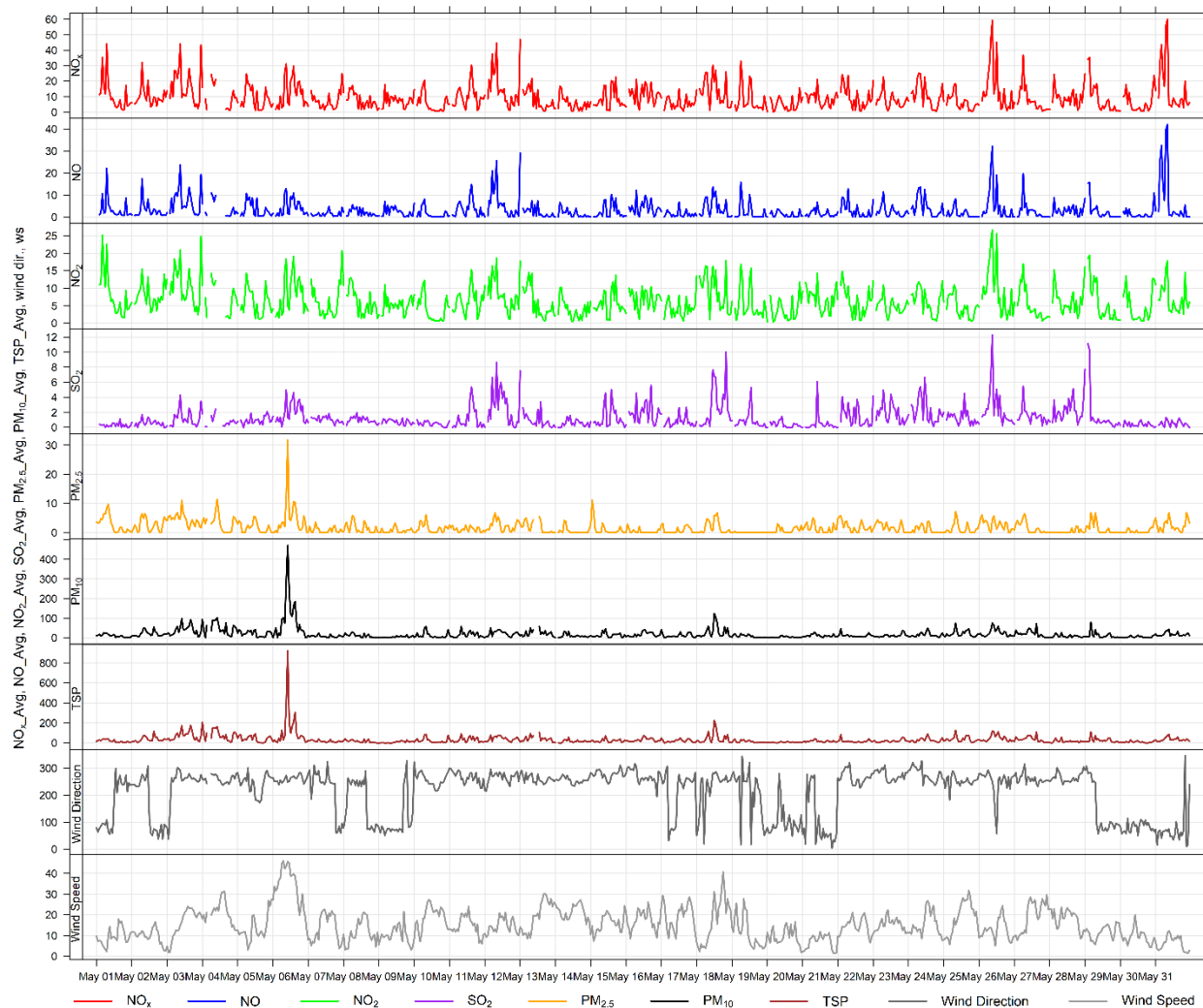


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

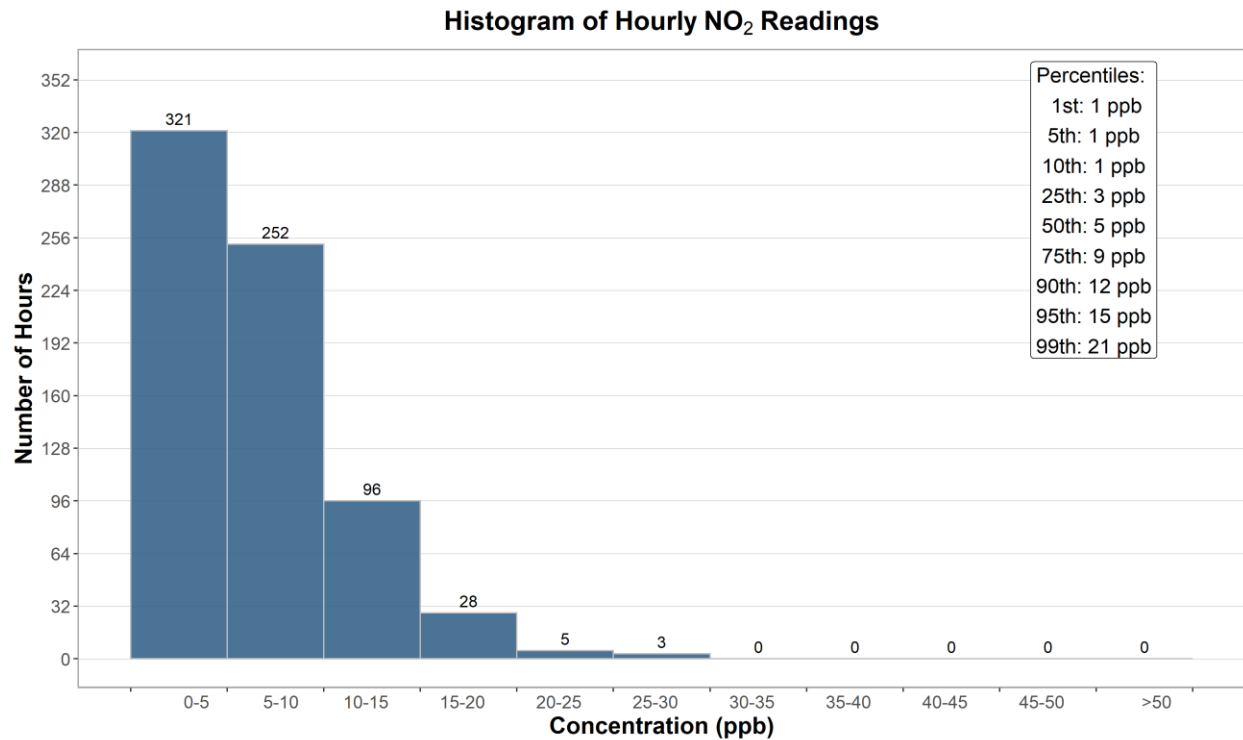


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

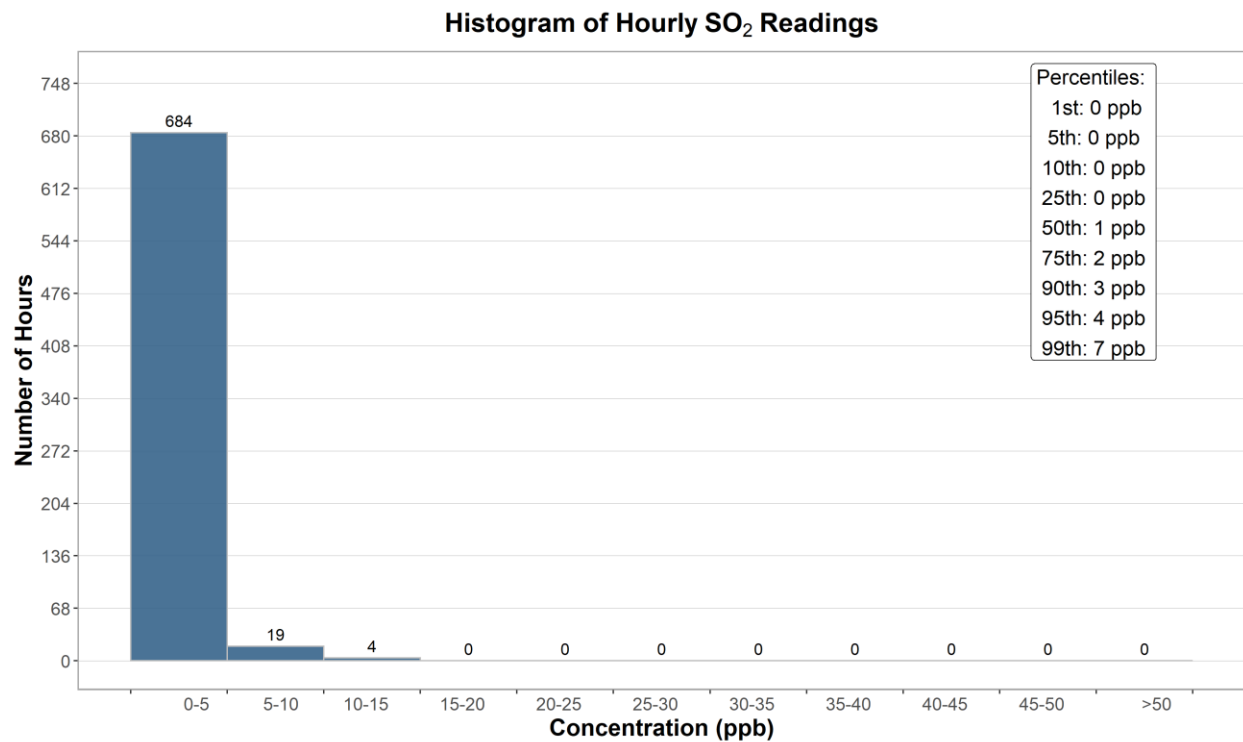


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

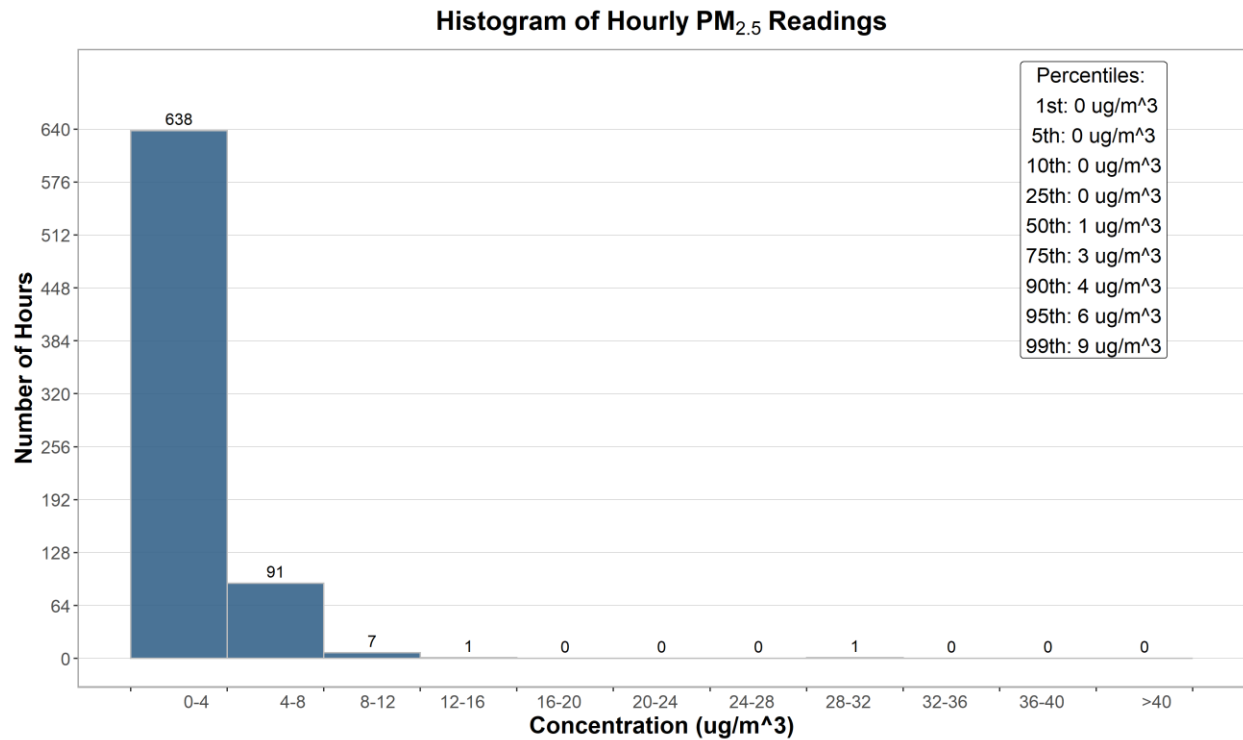


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

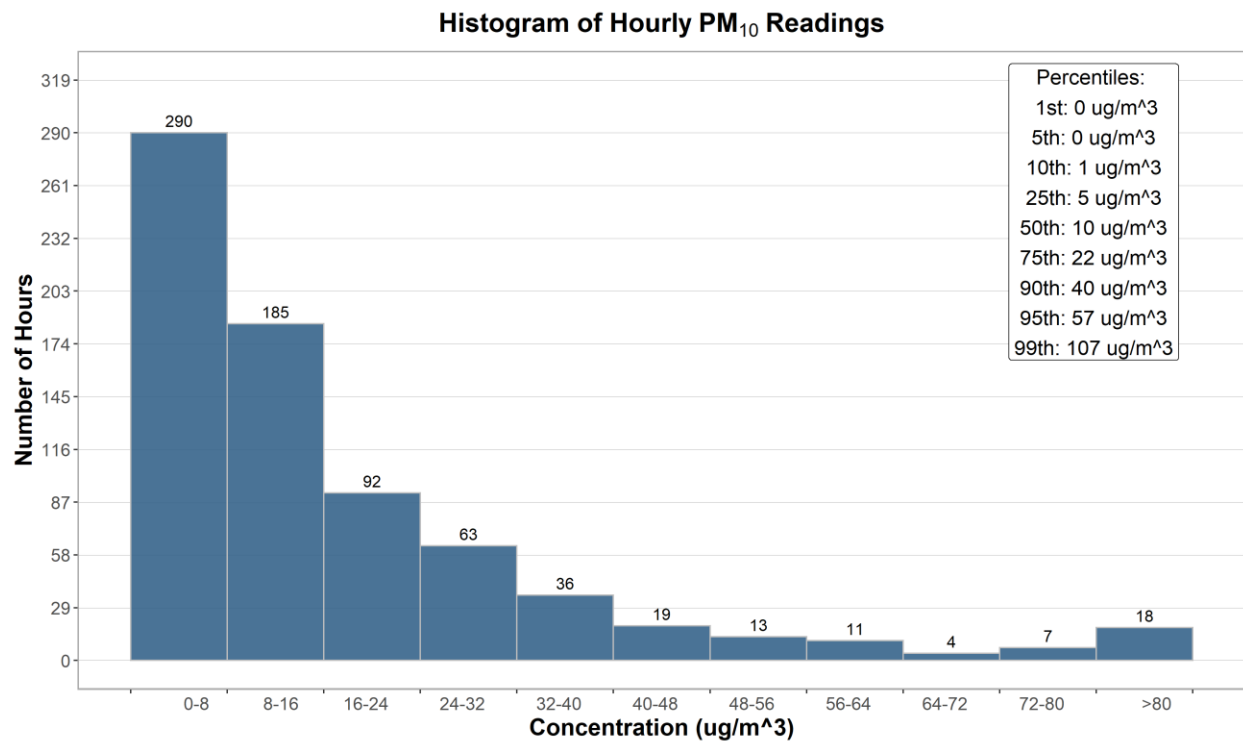


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

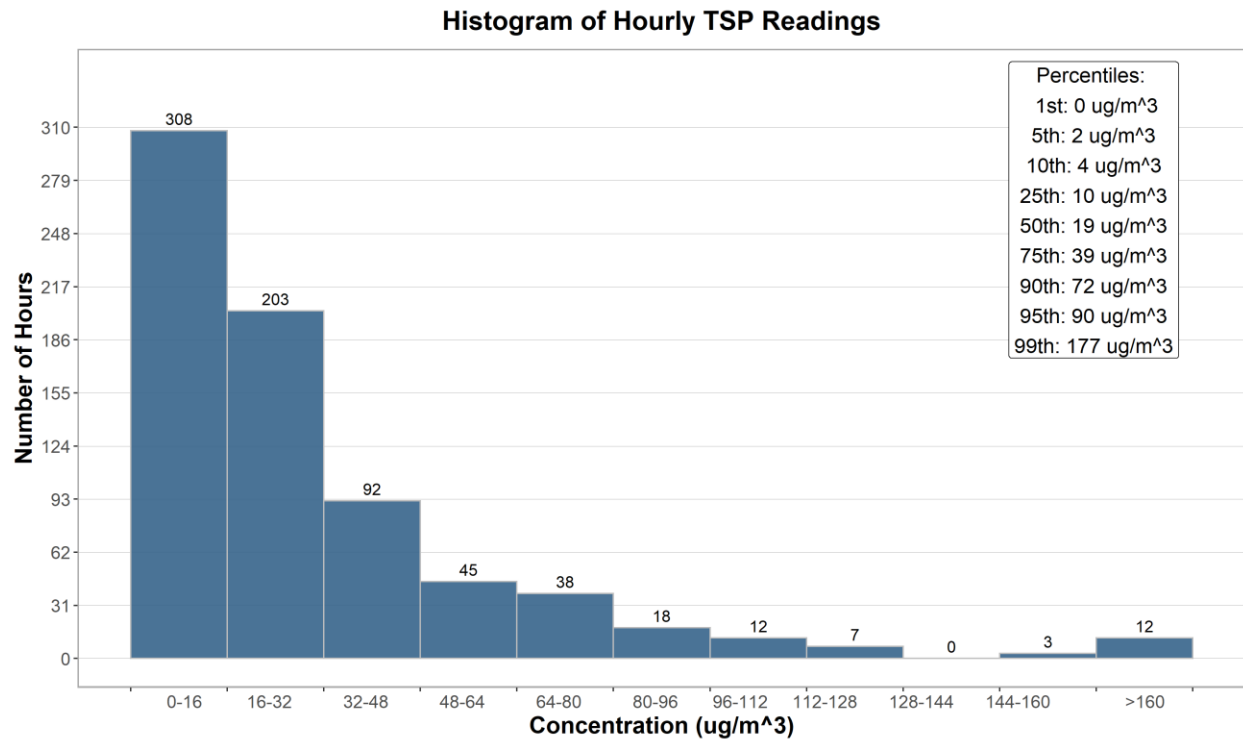


Figure 3-7 **Histogram of hourly TSP concentrations at the Lagoon station**

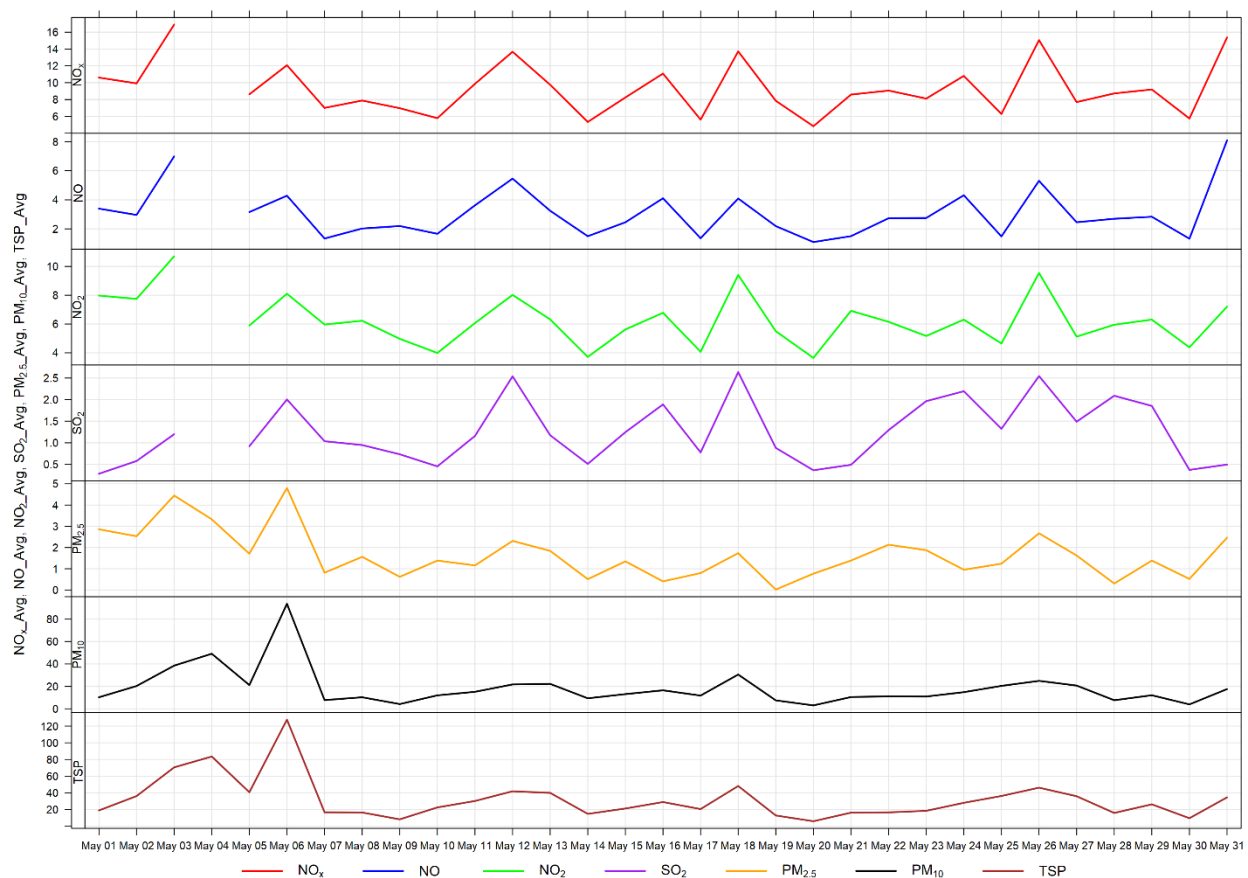


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

The following wind rose (Figure 3-9) shows the wind rose for the one day of TSP exceedance day. The wind rose shows that the winds predominately came from the west and west-southwest and were predominately over 20 km/hr.

Figure 3-10 through Figure 3-12 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-10 typically shows that PM₁₀ and TSP concentrations have a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other airshed activities. The diurnal patterns also typically follow the diurnal pattern of higher wind speeds during the daytime hours.

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

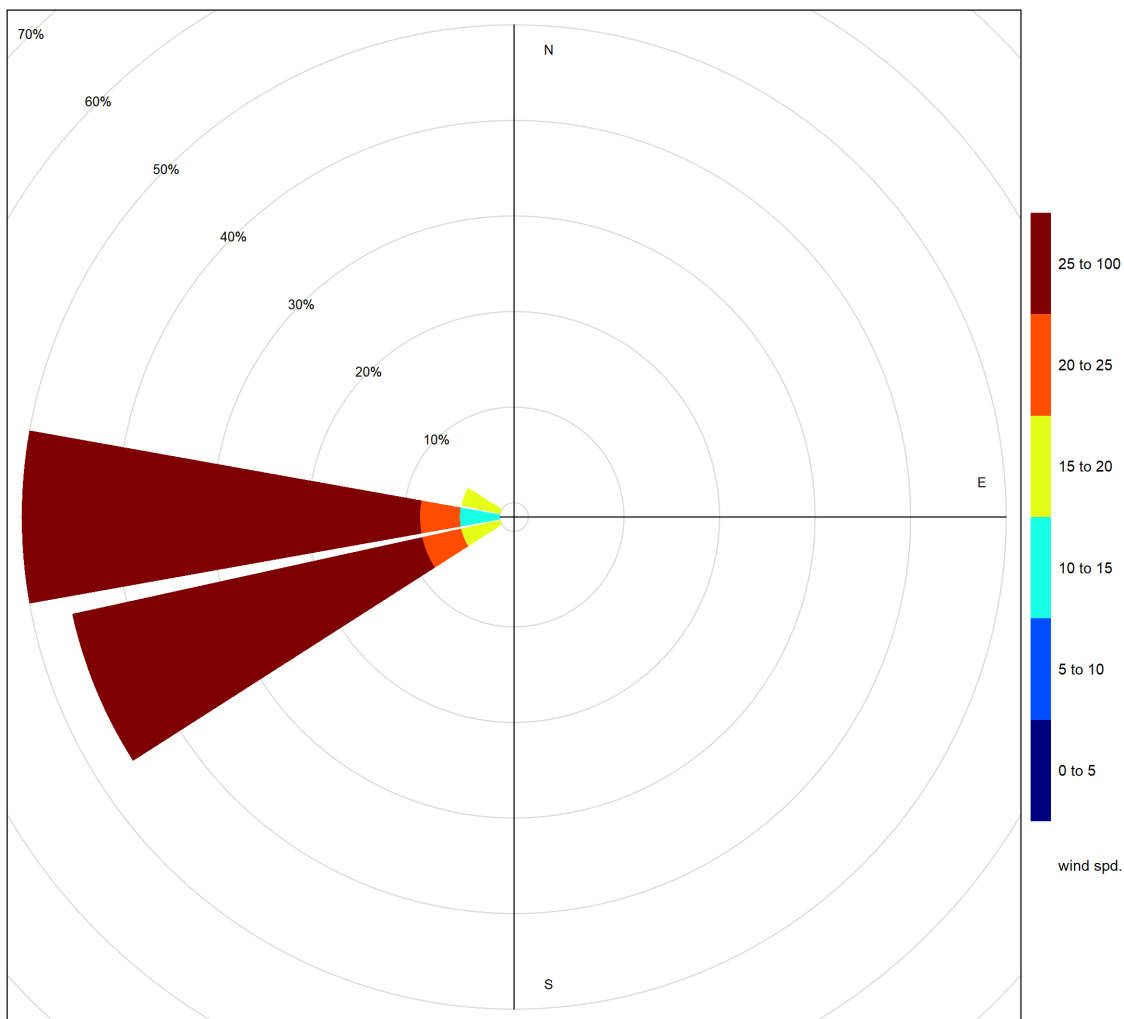


Figure 3-9 Wind rose for TSP exceedance day recorded at the Lagoon Station

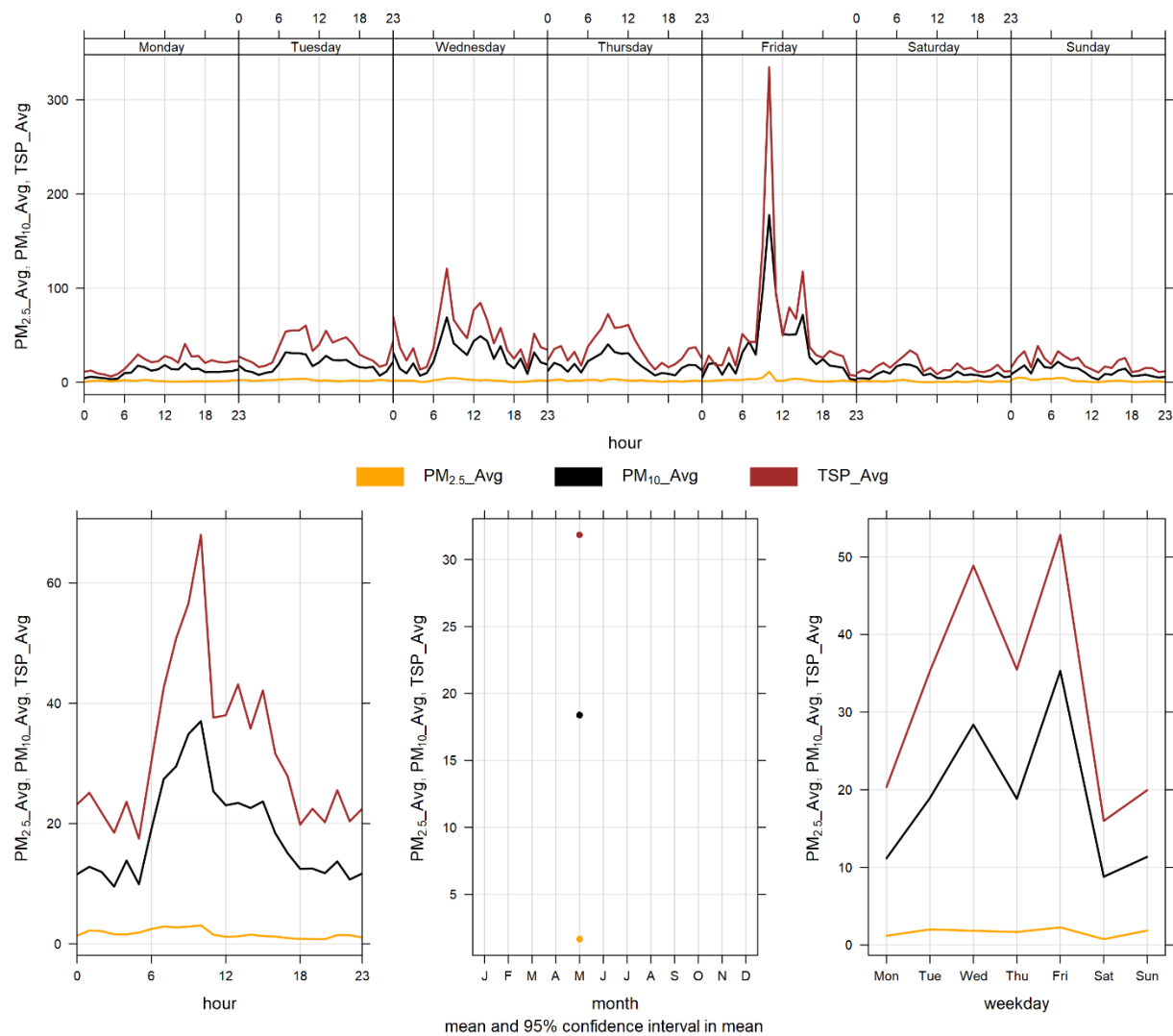


Figure 3-10 Lagoon monitor particulate matter time variation

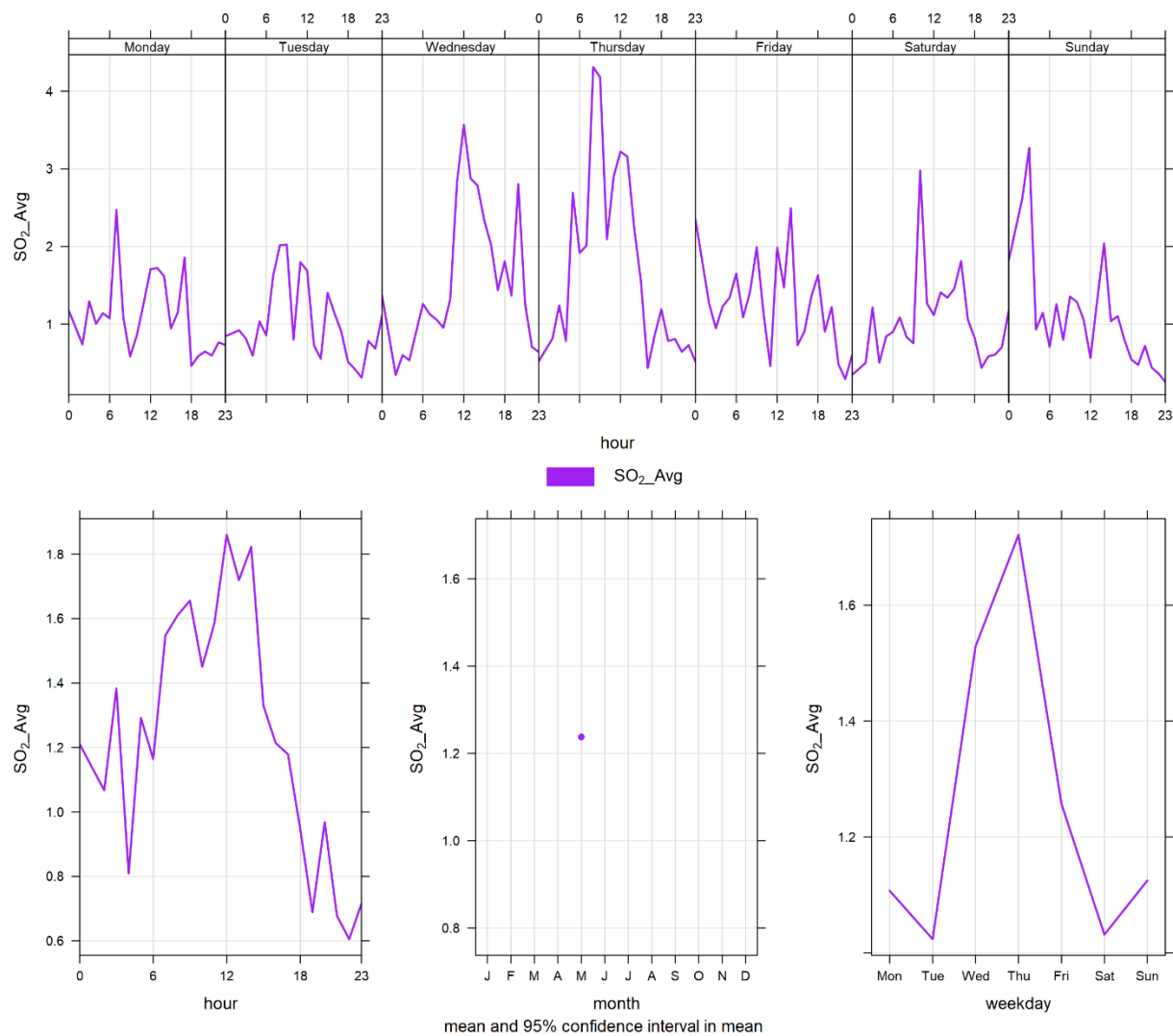


Figure 3-11 Lagoon monitor SO₂ time variation

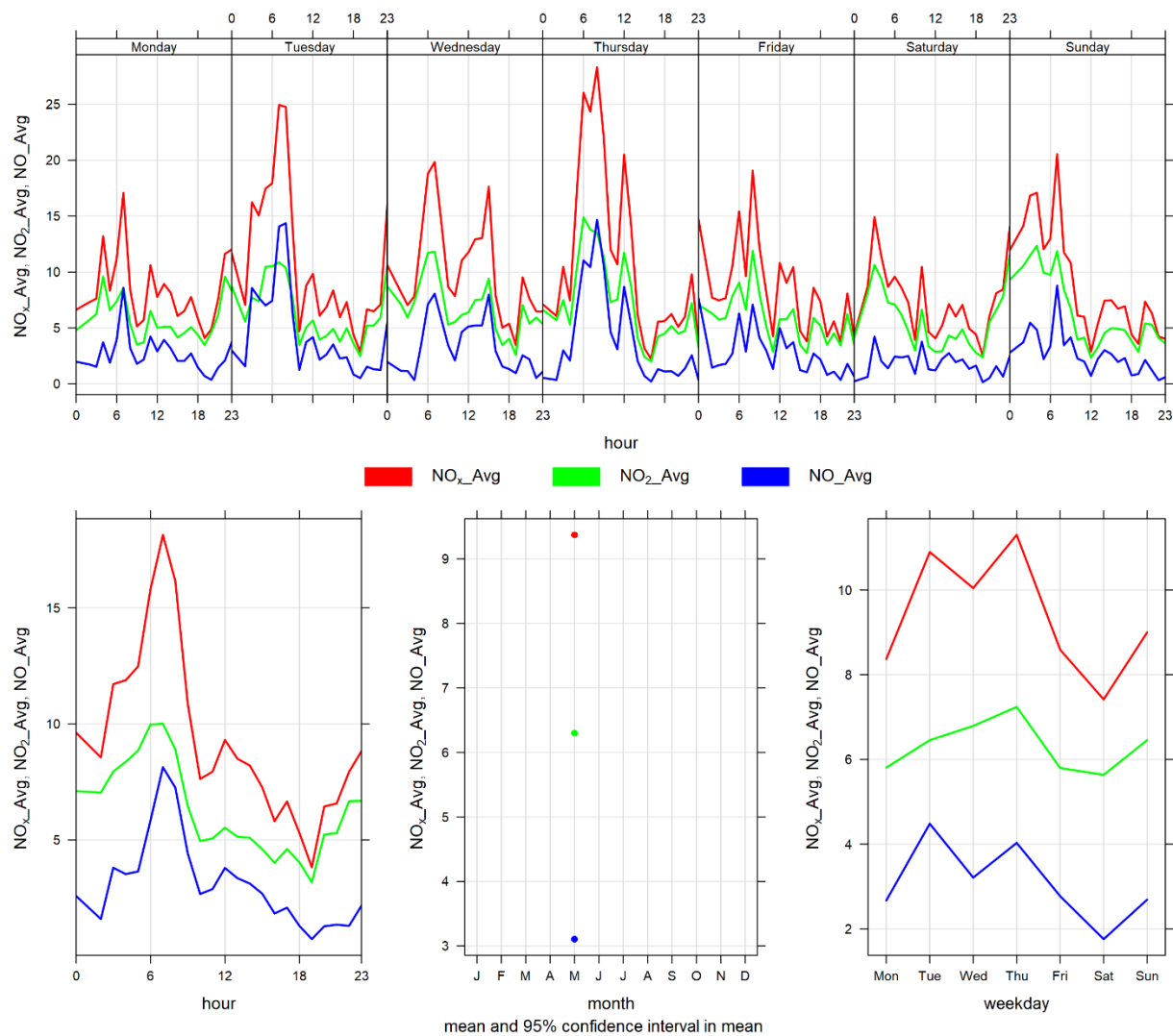


Figure 3-12 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for May 2022.

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

4.1 OPERATIONAL SUMMARY

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

Table 4-1 Instrumentation List at the Windridge monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on May 13 th . The monitor recorded 100% uptime for the month of May.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on May 13 th . The monitor recorded 100% uptime for the month of May.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 13 th . The monitor recorded 100% uptime for the month of May.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in May 2022, 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 zero exceedances of the 24-hour PM_{2.5} AAAQO, zero exceedances of the 1-hour PM_{2.5} AAAQG, and 5 exceedances of the 24-hour TSP AAAQO. The TSP exceedances occurred predominantly on days with high-speed westerly winds.

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 1 and 0, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in May was previously 1 day in 2018 & 2021.

Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on April 8, 2019. The flood mitigation work was completed in August 2020. The Windridge station was reinstalled for September 1st, 2020. As per the photo presented in section 1.1 the flood mitigation work has left an exposed creek bed area immediately west of the Windridge monitor that may contribute to an increase in TSP levels. Further, the strong wind gusting that occurred in May would have contributed to

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

Table 4-2 Summary of May 2022 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m³)	80	29	Windridge	0	0	0.0	2.4	63.0	6	10	43.5	272.6	10.6	6	100.0
PM₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	43.9	485.0	6	15	39.8	271.3	223.7	6	100.0
TSP (µg/m³)	-	100	Windridge	-	5	0.0	67.6	985.0	6	10	43.5	272.6	341.8	6	100.0

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2022-05-03	194.3	-	264.9	15.9	42.6	Winds predominantly from the west
2022-05-04	167.2	-	256.9	21.2	37.2	High wind event
2022-05-06	341.8	-	258.1	33.7	34.0	High wind event
2022-05-18	114.8	-	259.2	17.3	54.6	Winds predominantly from the west
2022-05-27	104.2	-	257.6	19.3	44.2	Winds predominantly from the west
Total # of Exceedances	5	0				
Maximum # of Exceedances (May)	1 (2018, 2021)	0 (2018, 2021)				
Average # of Exceedances (May)	1	0				
Minimum # of Exceedances (May)	1 (2018, 2021)	0 (2018, 2021)				

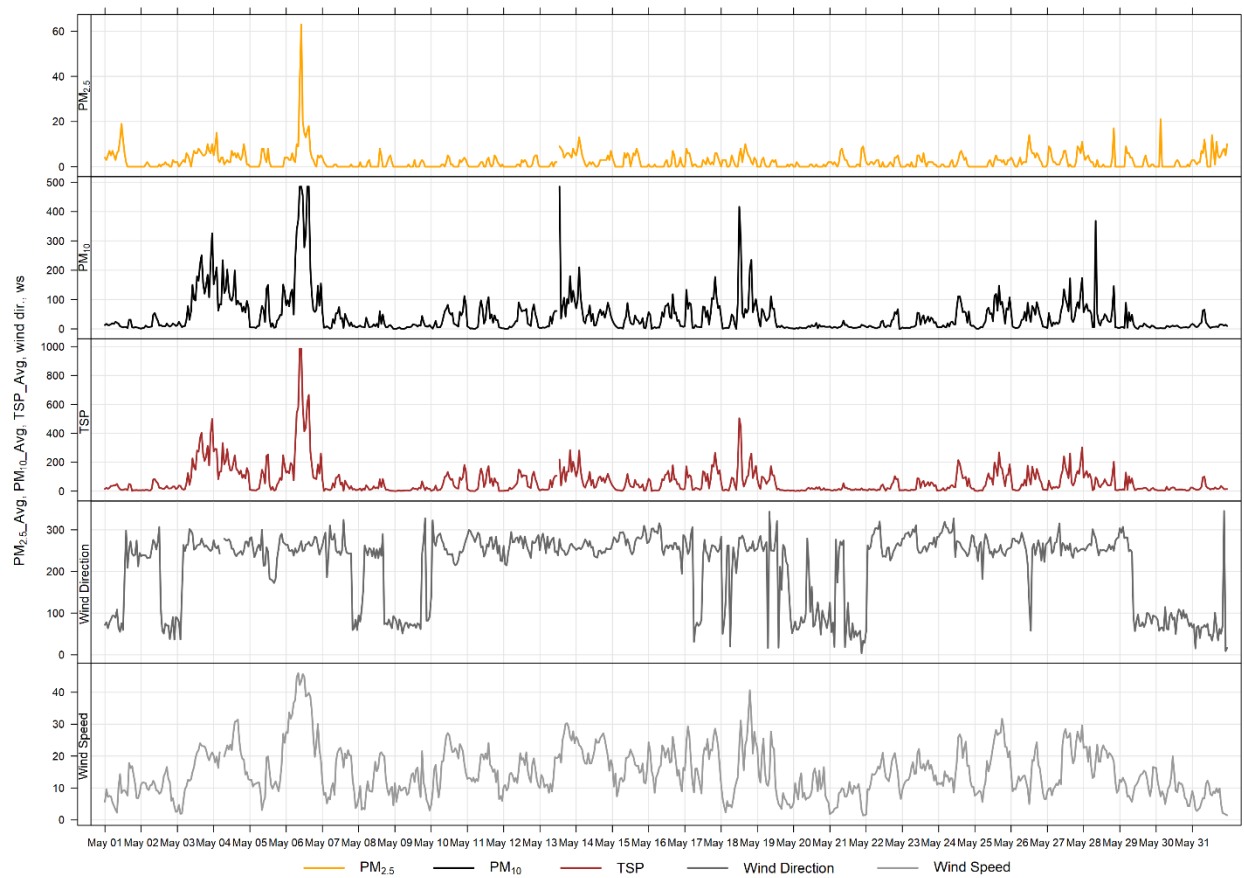


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

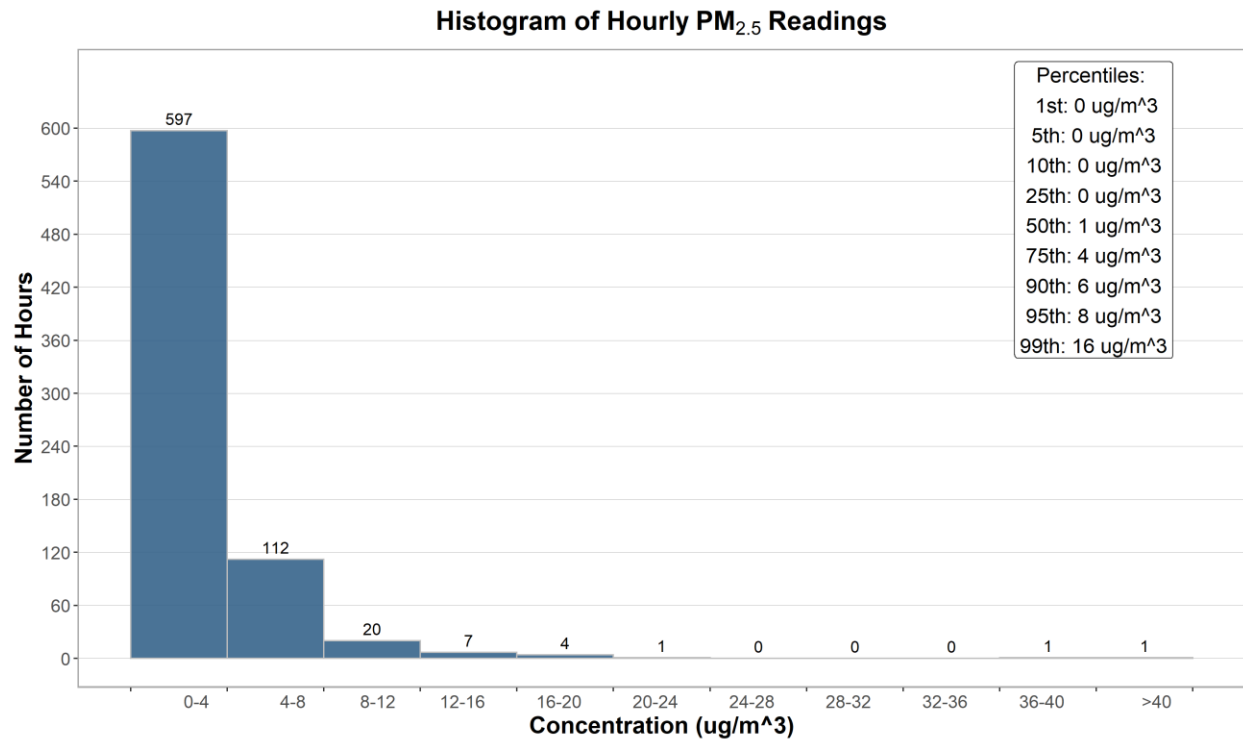


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

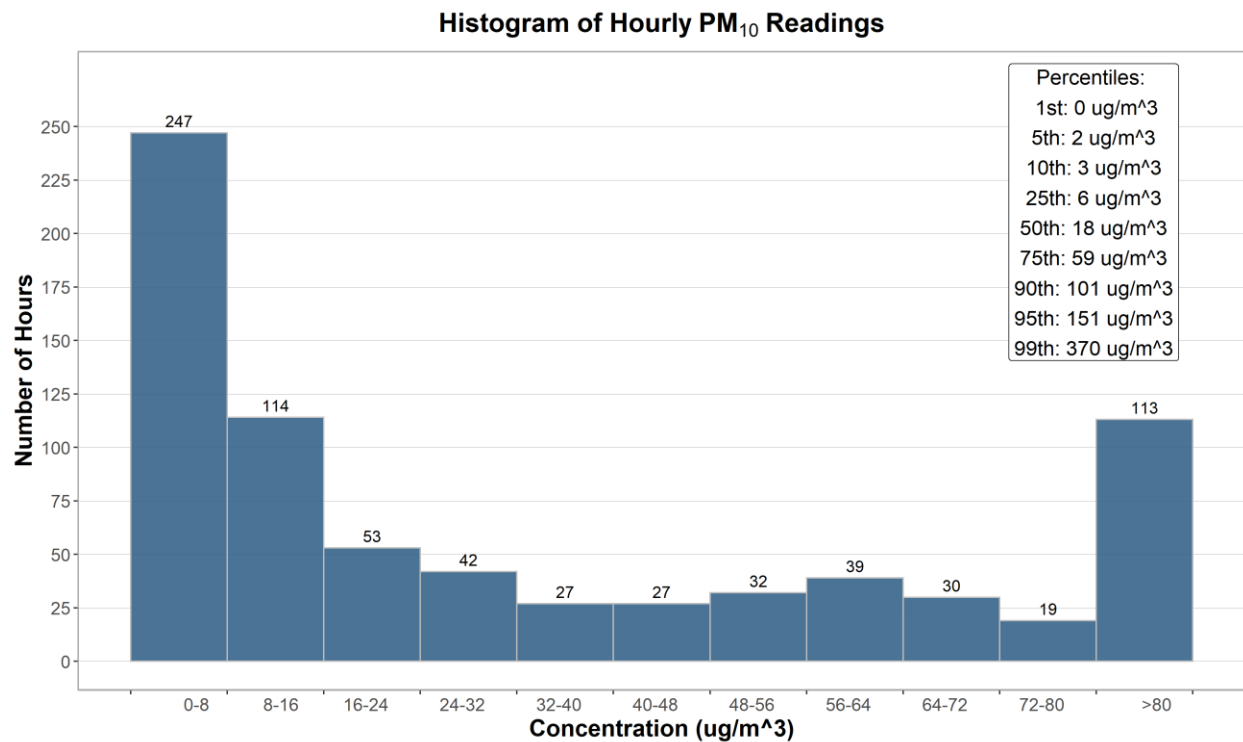


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

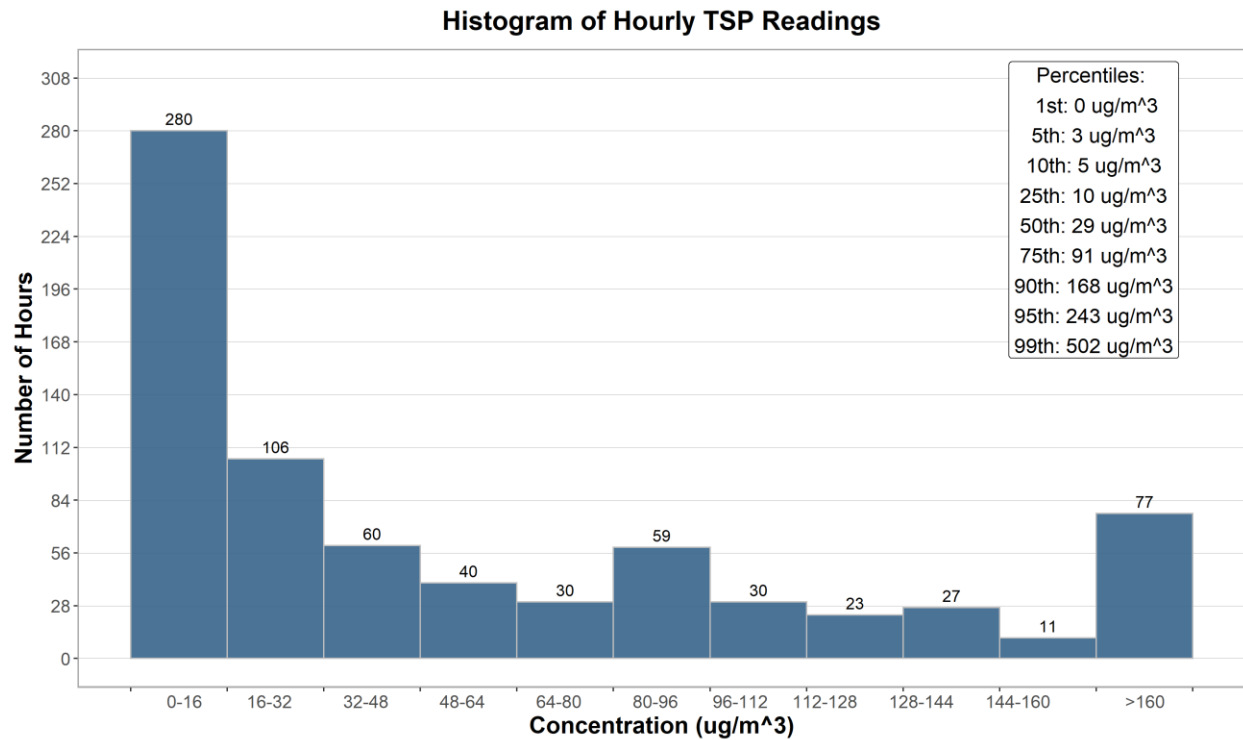


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

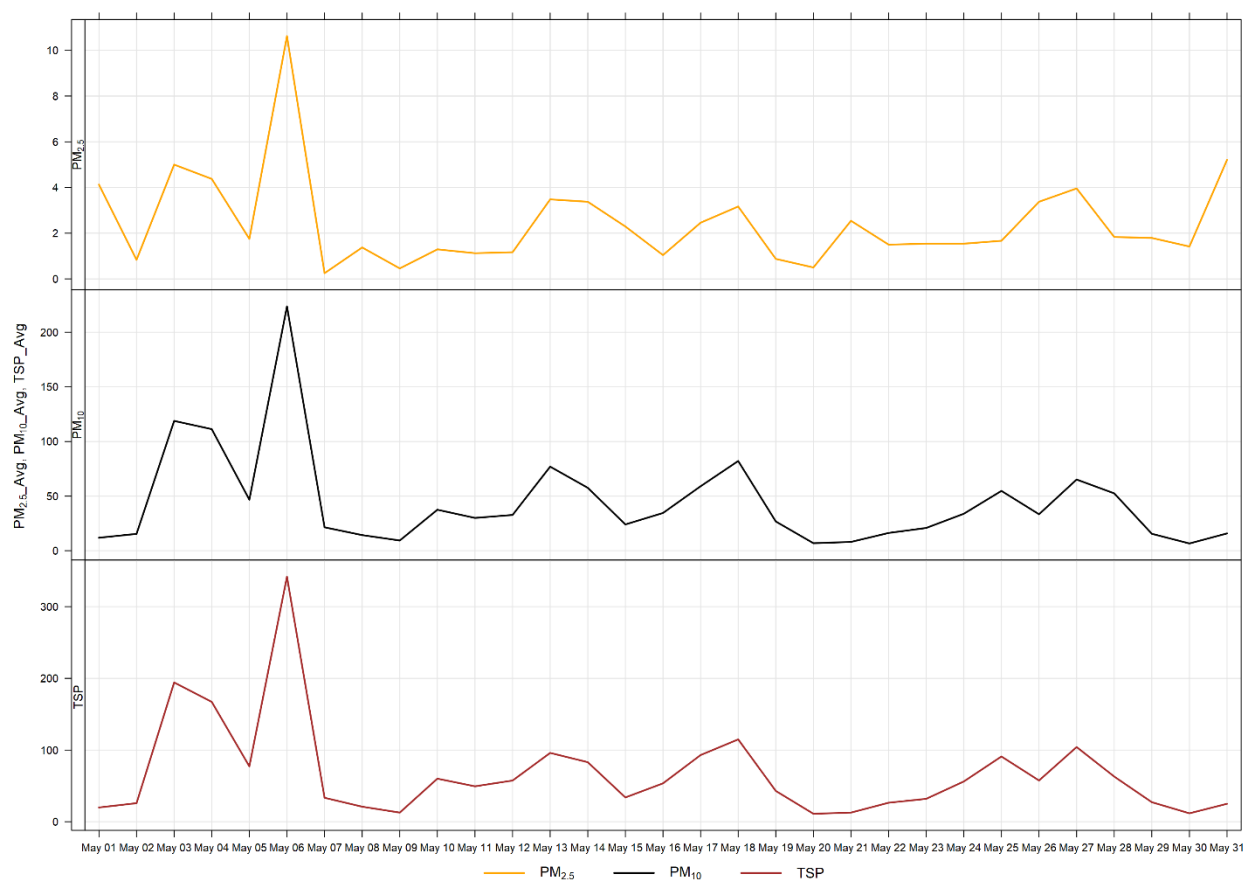


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 5 days of TSP exceedances. The wind rose shows that the winds predominantly came from the west-southwest and west directions, and were predominately over 20 km/hr.

Figure 4-7 illustrates the hourly PM concentrations recorded at the Windridge monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 4-7 is based on data collected during May 2022. Similar to the Lagoon station, typically PM concentrations shows a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities. The diurnal patterns also follow the diurnal pattern of higher wind speeds during the daytime hours.

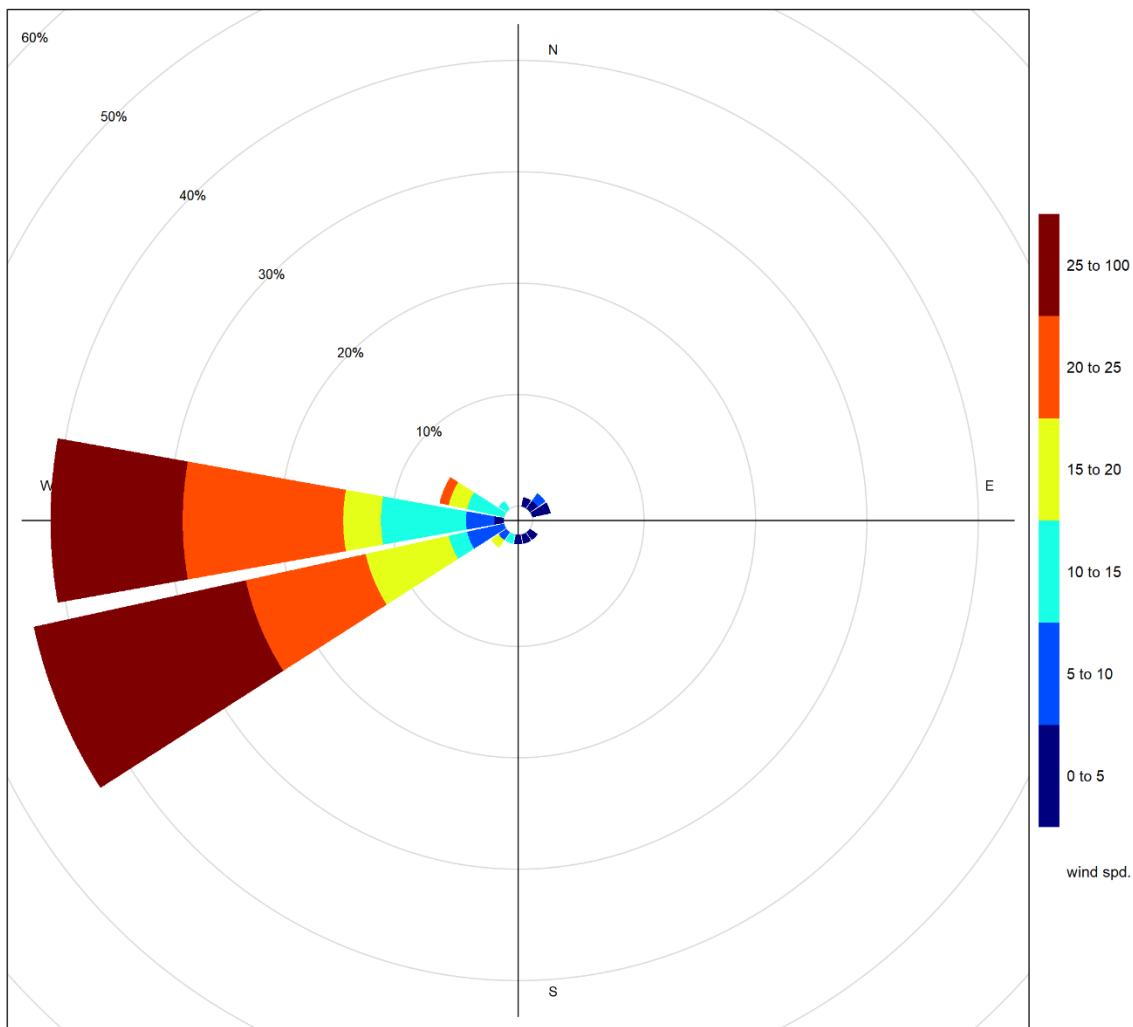


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

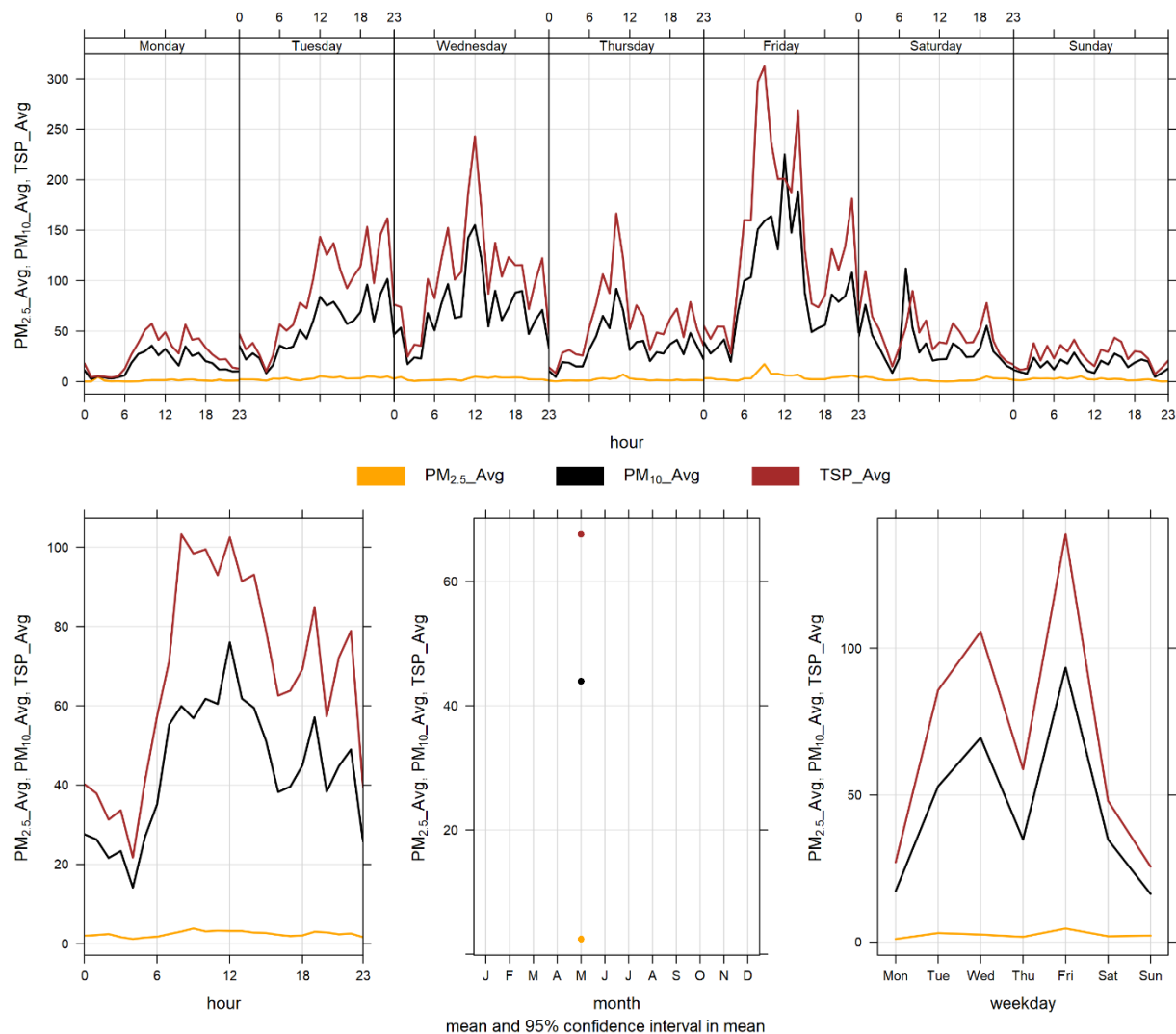


Figure 4-7 Windridge particulate matter time variation

5 WEST INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

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

Table 5-1 Instrumentation List at the West monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime for the month of May.

5.2 MONITORING RESULTS AND TRENDS

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

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

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

Historically during the month of May, the West monitor records an average of zero exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. There have been zero 24-hour TSP exceedances recorded in May from 2010 – 2021.

Table 5-2 Summary of May 2022 data at the West GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m ³)	80	29	West	0	0	0.1	2.4	13.9	30	8	9.9	60.3	8.3	31	100.0
PM₁₀ (µg/m ³)	-	-	West	-	-	0.1	3.3	28.4	9	12	14.6	69.3	12.1	31	100.0
TSP (µg/m ³)	-	100	West	-	0	0.1	3.1	41.3	9	12	14.6	69.3	13.7	31	100.0

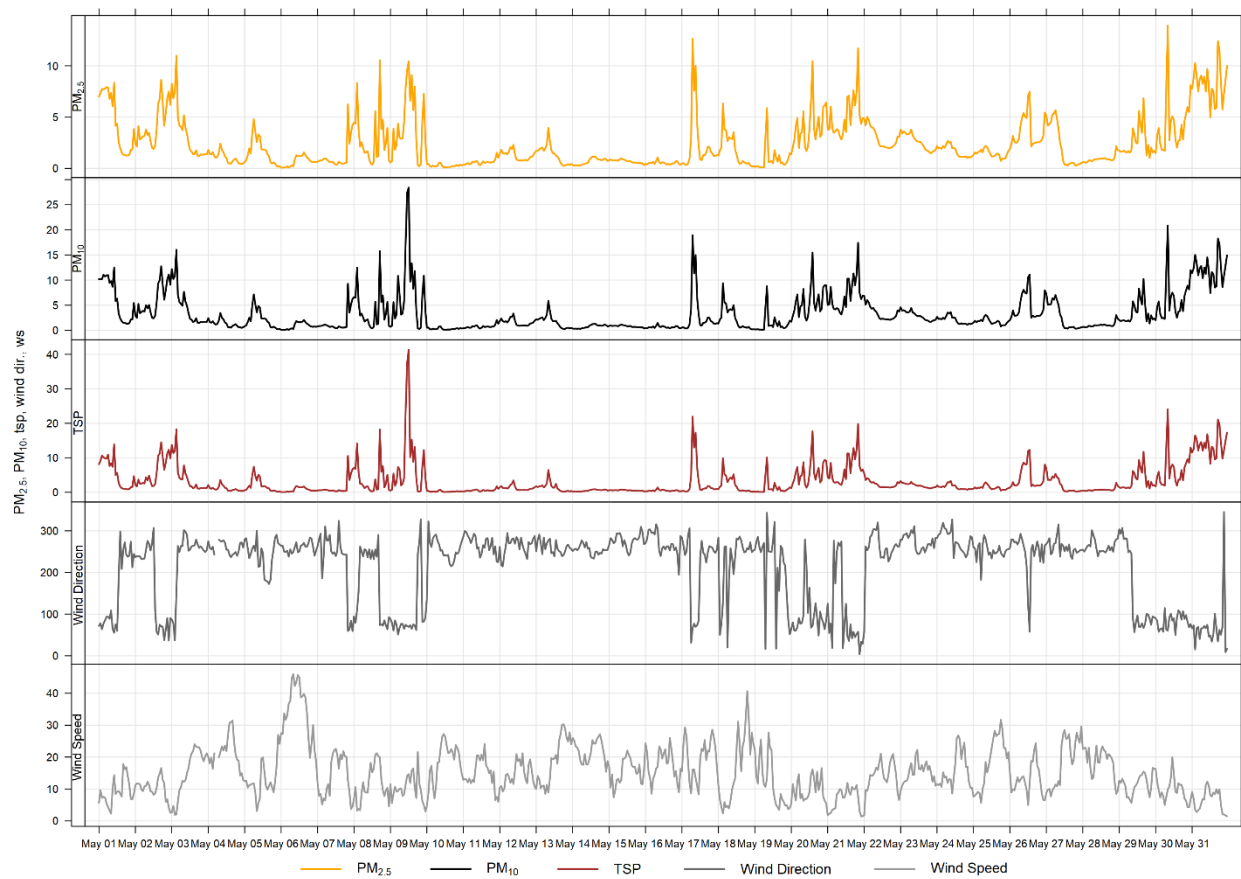


Figure 5-1 1-hour particulate matter concentrations at the West monitor

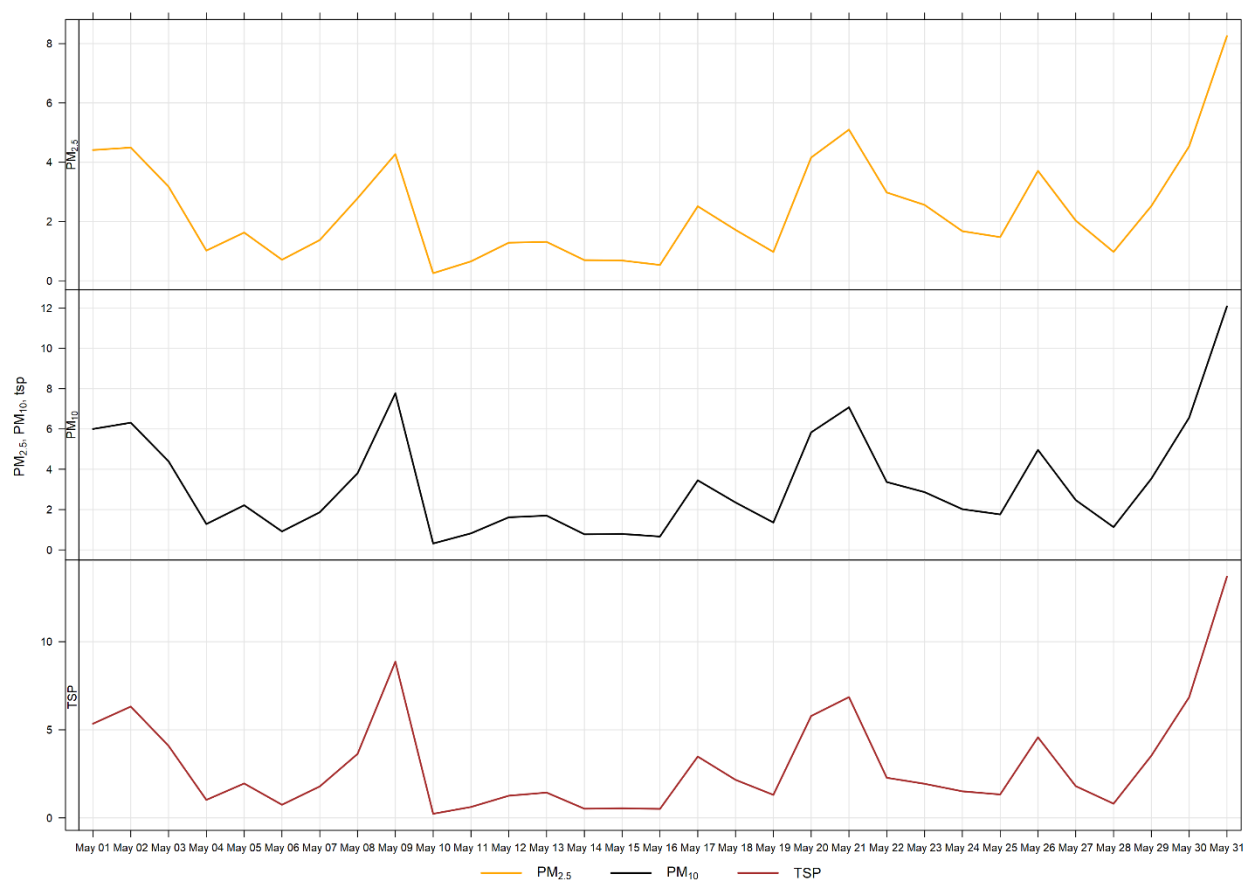


Figure 5-2 24-hour particulate matter concentrations at the West monitor

Figure 5-3 illustrates the hourly PM concentrations recorded at the West monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 5-3 is based on data collected during May 2022. 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 1, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.

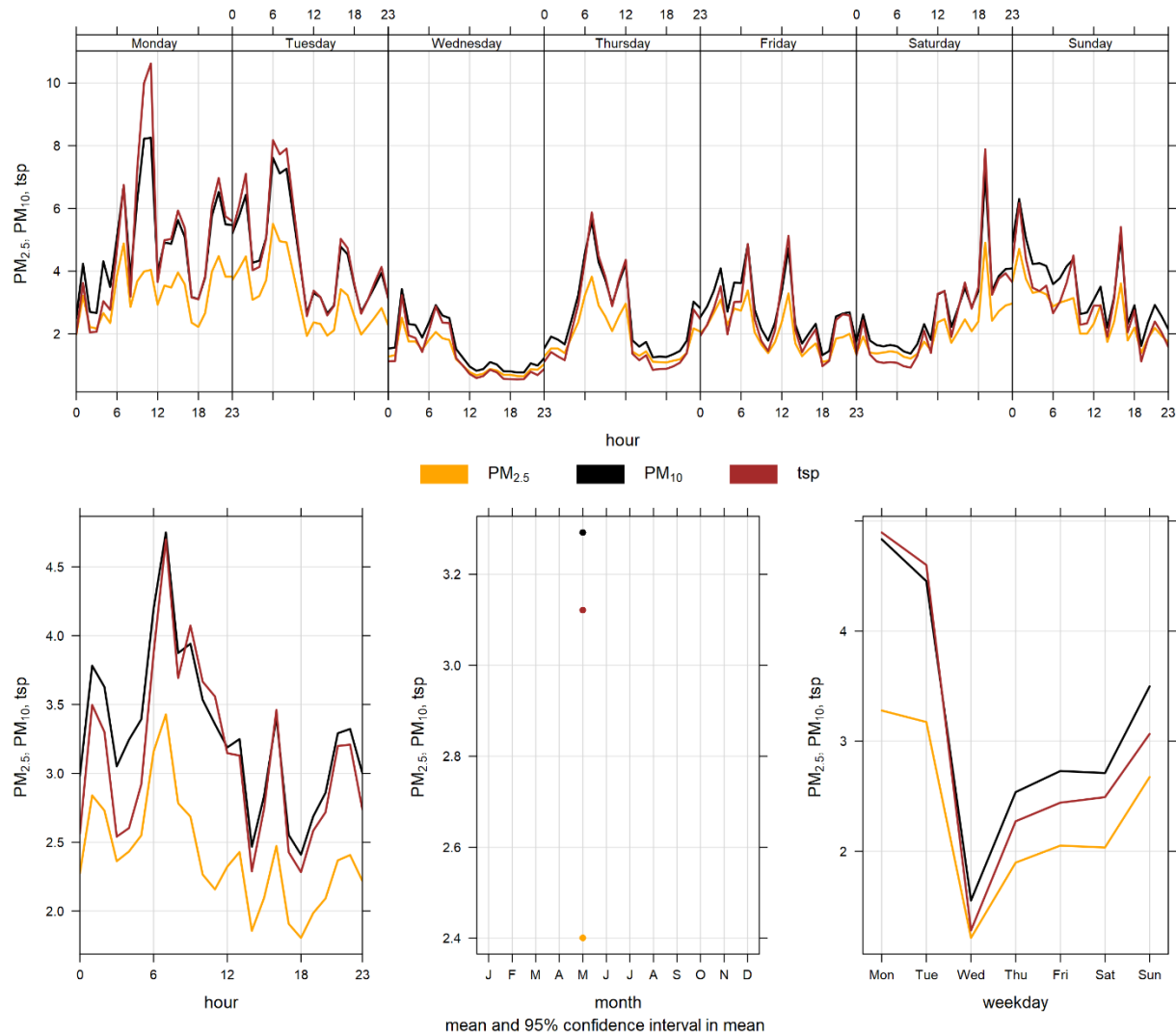


Figure 5-3 West monitor particulate matter time variation

6 BERM INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

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

Table 6-1 Instrumentation List at the Berm monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime during the month of May.

6.2 MONITORING RESULTS AND TRENDS

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

There were 16 and 2 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were 4 hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of May, the Berm monitor records an average of 7 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during May occurred in 2010 & 2012 where there were 16 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in May was 1 day in 2019.

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

The Berm monitor is located along a ridge at the edge of the Lafarge property and is in an area where on-site trucks drive through site, which can create fugitive dust. Quarry blasting also has the potential to impact short term PM immediately following a blast. The strong wind gusting that occurred in May would have also contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 6-2 Summary of May 2022 data at the Berm GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m ³)	80	29	Berm	4	2	0.2	9.9	136.4	6	10	43.5	272.6	43.2	6	100.0
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.3	63.8	1221.6	6	10	43.5	272.6	375.3	6	100.0
TSP (µg/m ³)	-	100	Berm	-	16	0.2	154.7	3168.4	6	10	43.5	272.6	1059.0	6	100.0

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Berm						
2022-05-03	421.7	30.0	264.9	15.9	42.6	Winds predominantly from the west
2022-05-04	313.7	-	256.9	21.2	37.2	High wind event
2022-05-05	149.4	-	247.4	13.3	46.9	Winds predominantly from the southwest
2022-05-06	1059.0	43.2	258.1	33.7	34.0	High wind event
2022-05-10	130.3	-	251.1	18.9	46.7	Winds predominantly from the west
2022-05-11	136.2	-	266.9	14.6	39.2	Winds predominantly from the west
2022-05-12	129.3	-	266.4	14.6	34.4	Winds predominantly from the west
2022-05-13	299.8	-	257.2	19.5	41.3	Winds predominantly from the west
2022-05-14	172.5	-	253.4	21.5	33.5	High wind event
2022-05-16	107.5	-	269.8	17.3	48.4	Winds predominantly from the west
2022-05-17	247.2	-	257.2	19.5	44.5	Winds predominantly from the west
2022-05-18	275.1	-	259.2	17.3	54.6	Winds predominantly from the west

2022-05-24	163.9	-	272.8	15.6	38.5	Winds predominantly from the west
2022-05-25	284.7	-	251.4	18.9	39.1	Winds predominantly from the west
2022-05-26	135.9	-	261.8	12.7	38.0	Winds predominantly from the west
2022-05-27	229.7	-	257.6	19.3	44.2	Winds predominantly from the west
Total # of Exceedances	16	2				
Maximum # of Exceedances (May)	16 (2010, 2012)	1 (2019)				
Average # of Exceedances (May)	7	0				
Minimum # of Exceedances (May)	2 (2014, 2019, 2020)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2021)				

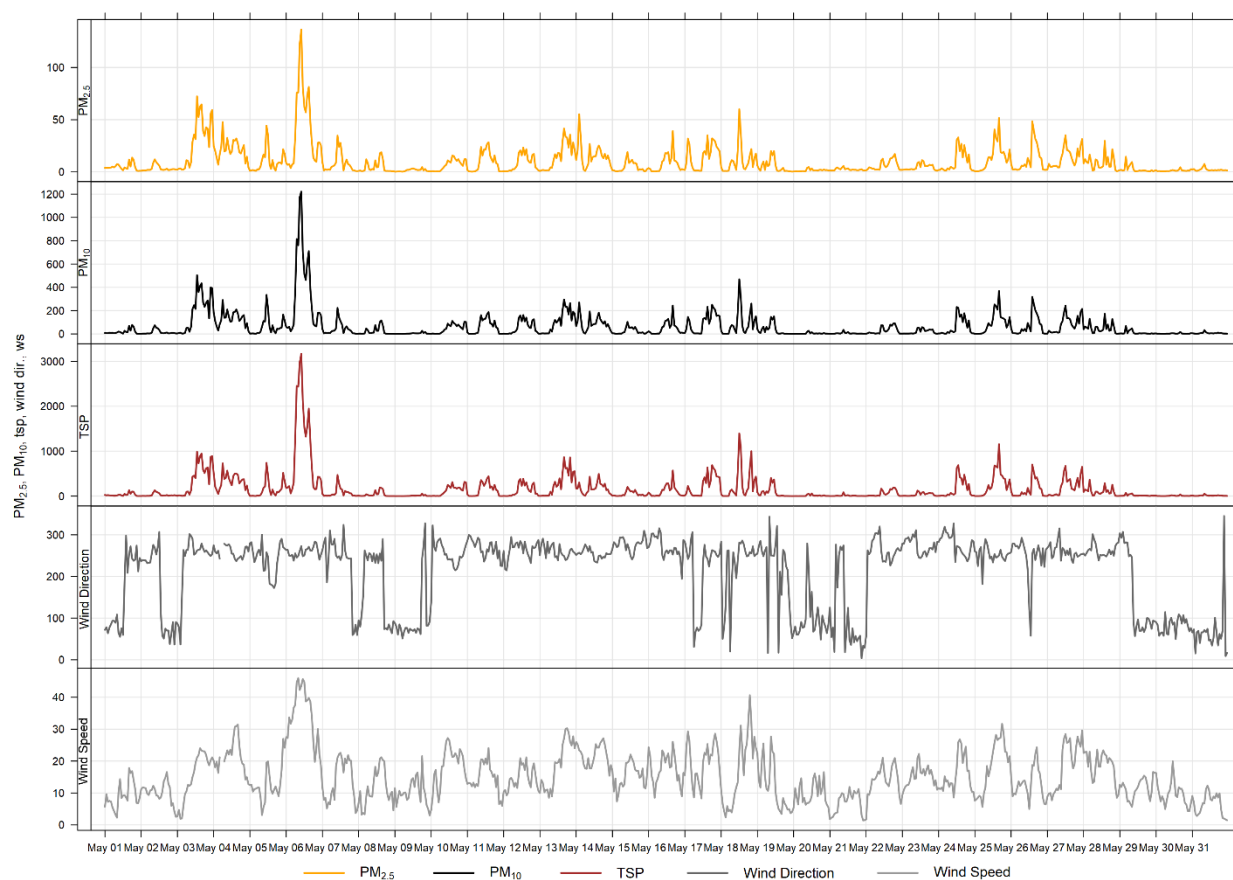


Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

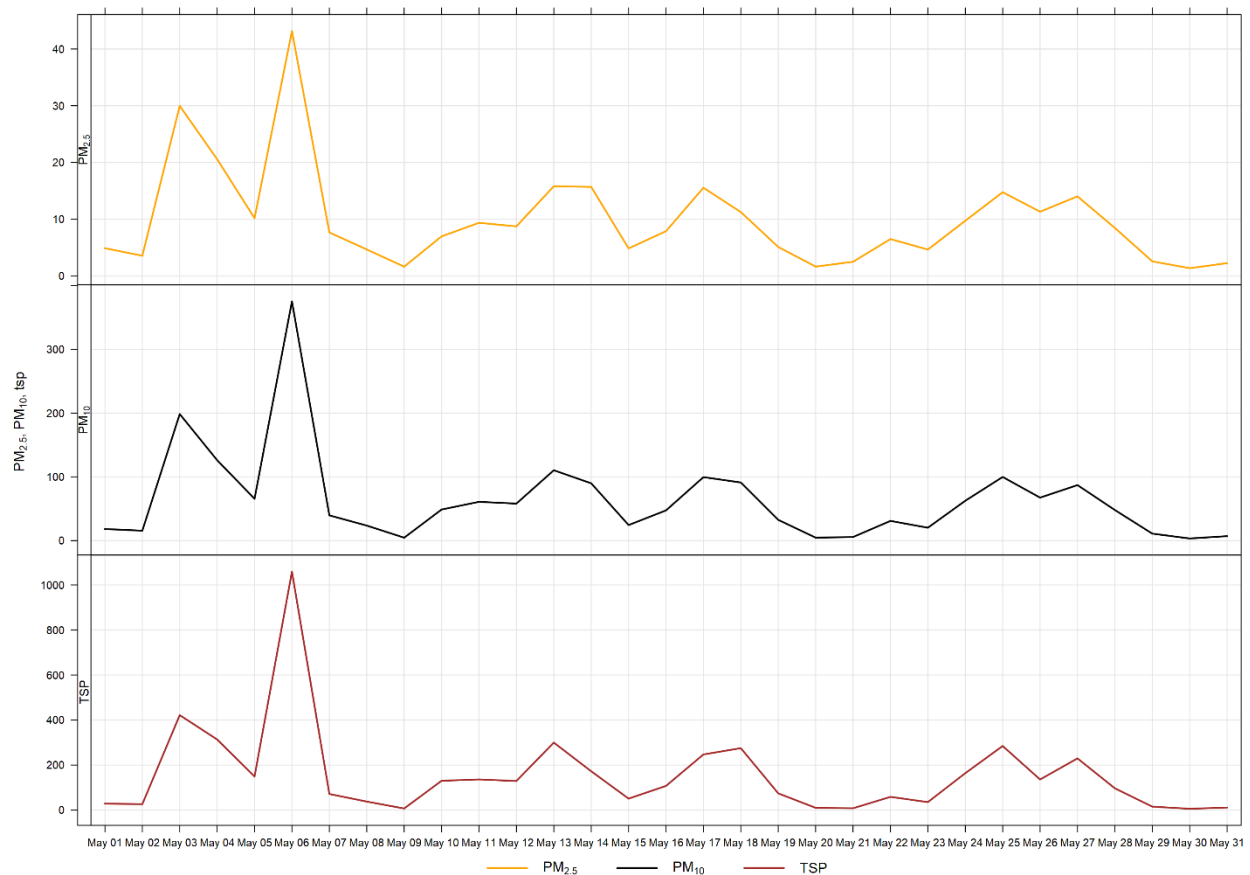


Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 16 days of TSP exceedances. Figure 6-4 shows the wind rose for the 2 days of $PM_{2.5}$ exceedances. The wind roses show that the winds predominantly came from the westerly directions, and were predominately over 20 km/hr. This month many of the TSP exceedances were driven by windblown fugitive dust, and winds from the west which suggest impacts from the Lafarge Facility.

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

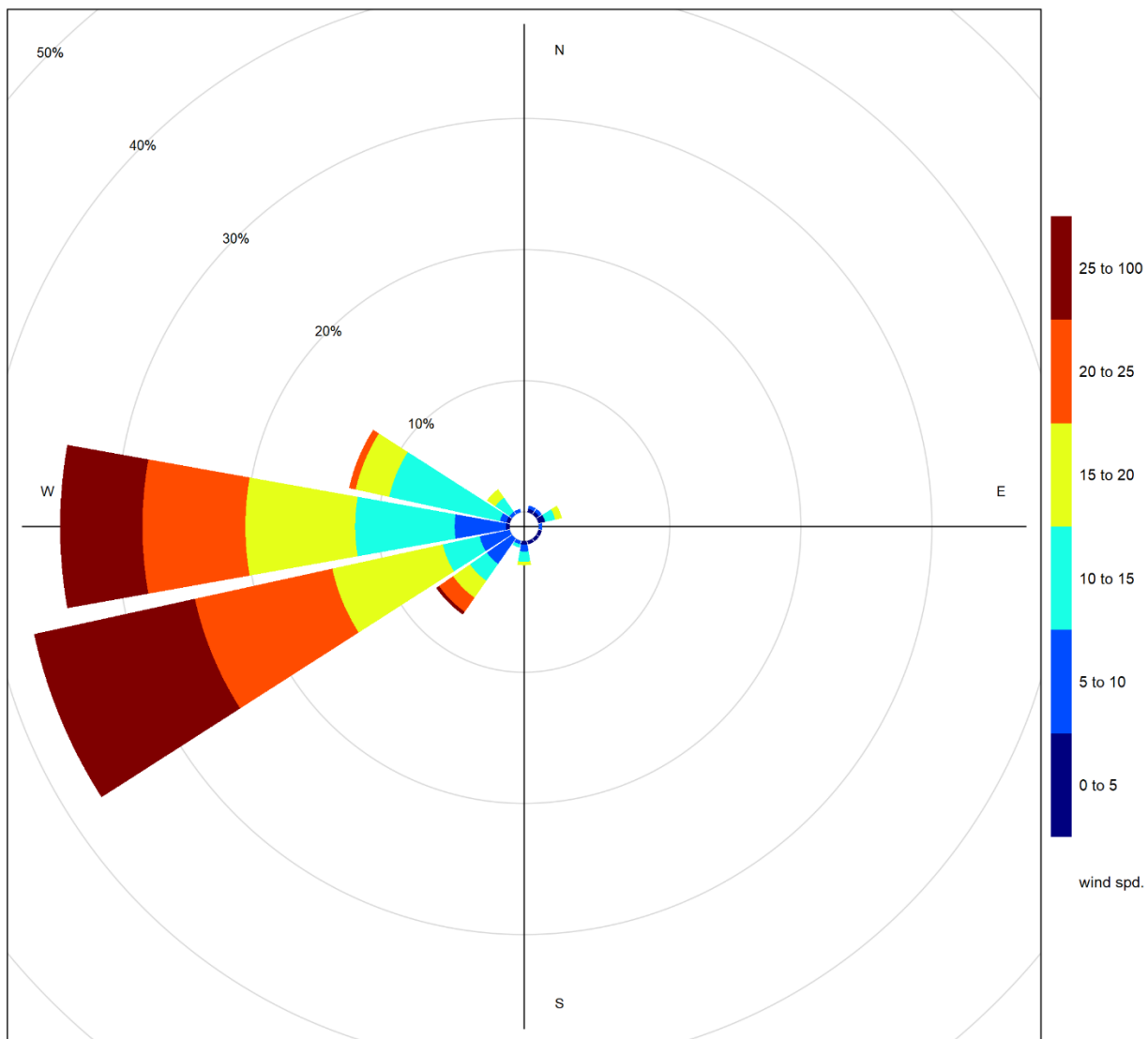


Figure 6-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

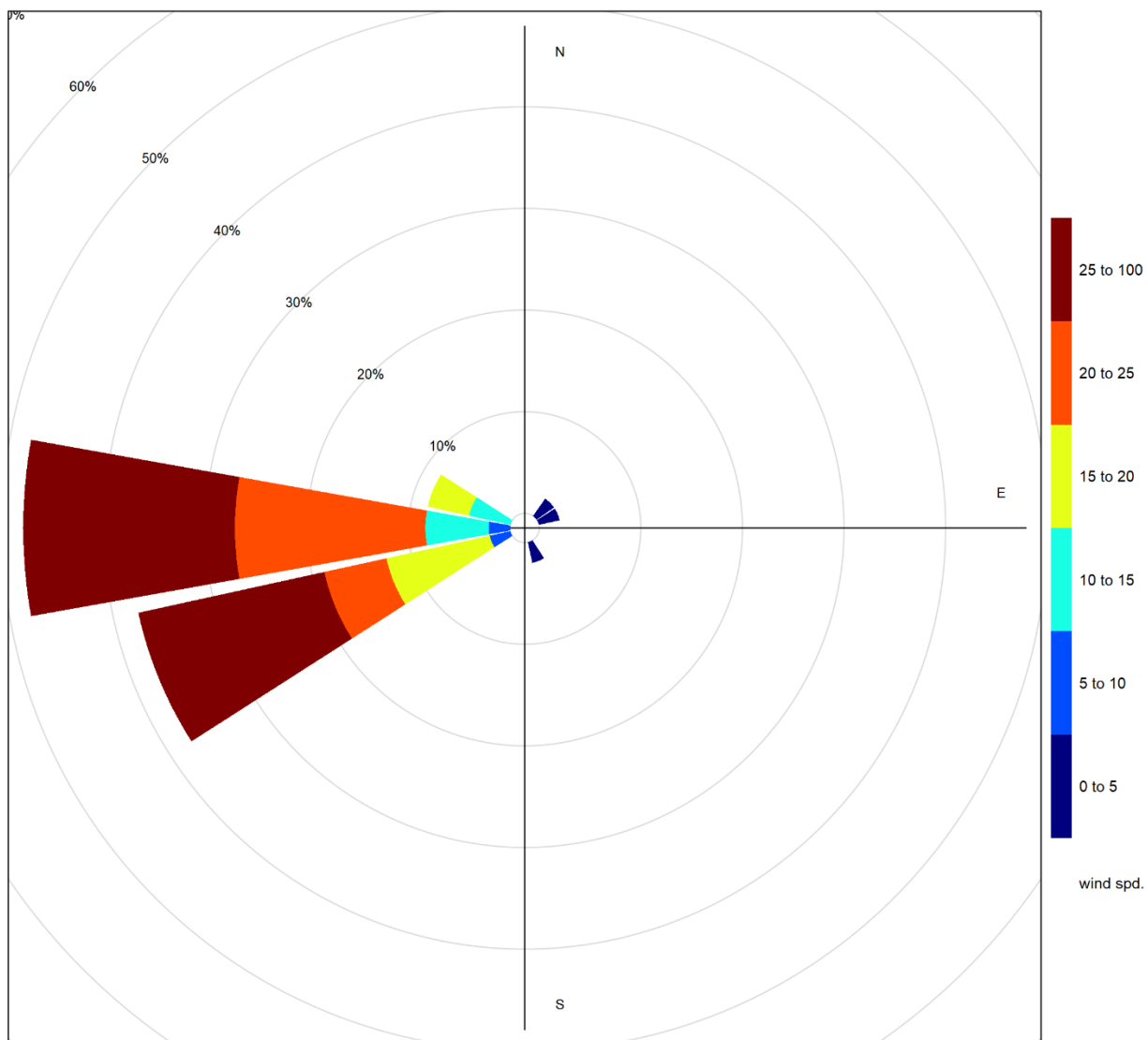


Figure 6-4 Wind rose for PM_{2.5} exceedance day recorded at the Berm GRIMM

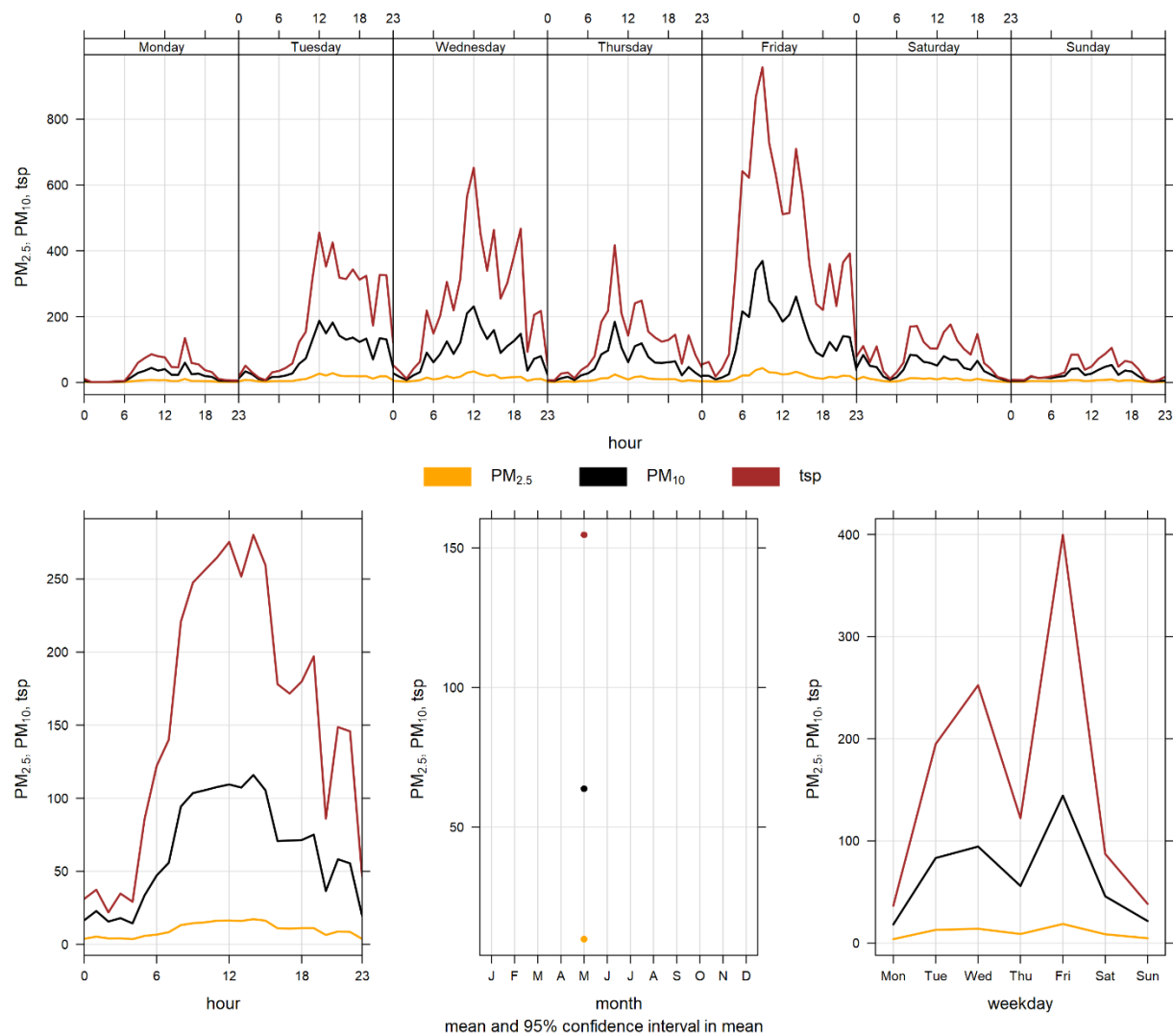


Figure 6-5 Berm particulate matter time variation

7 ENTRANCE INDUSTRIAL GRIMM

7.1 OPERATIONAL SUMMARY

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

Table 7-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime for the month of May.

7.2 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 7-1 and Figure 7-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 7-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. Table 7-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

During the month of May, there were 13 and 0 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There was zero hours exceeding the 1-hour PM_{2.5} Guideline.

Historically, the Entrance monitor records an average of 12 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of May. The maximum number of TSP exceedances recorded during May occurred in 2014, which had 20 days that exceeded the guideline. The minimum number of TSP exceedances recorded during May occurred in 2020, which had two days that exceeded the guideline. The maximum number of PM_{2.5} exceedances recorded during May is three days in 2019.

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.

Figure 7-3 shows the wind rose for the 13 days that exceeded the TSP Guideline. The wind rose show that the winds predominantly came from the westerly directions.

Table 7-2 Summary of May 2022 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	0.2	8.8	58.9	3	9	12.7	297.5	21.6	26	100.0
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	0.4	53.7	464.4	26	4	11.6	273.5	152.1	26	100.0
TSP (µg/m ³)	-	100	Entrance	-	13	0.4	110.8	1565.1	6	10	43.5	272.6	306.5	26	100.0

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2022-05-03	220.8	-	264.9	15.9	42.6	Winds predominantly from the west
2022-05-05	115.2	-	247.4	13.3	46.9	Winds predominately from the southwest
2022-05-06	244.9	-	258.1	33.7	34.0	High wind event
2022-05-10	100.6	-	251.1	18.9	46.7	Winds predominately from the west
2022-05-11	236.4	-	266.9	14.6	39.2	Winds predominantly from the west
2022-05-12	193.3	-	266.4	14.6	34.4	Winds predominantly from the west
2022-05-13	188.4	-	257.2	19.5	41.3	Winds predominantly from the west
2022-05-16	108.4	-	269.8	17.3	48.4	Winds predominantly from the west
2022-05-22	116.1	-	263.9	14.4	37.6	Winds predominantly from the west
2022-05-24	190.5	-	272.8	15.6	38.5	Winds predominantly from the west
2022-05-25	122.3	-	251.4	18.9	39.1	Winds predominantly from the west

2022-05-26	306.5	-	261.8	12.7	38.0	Winds predominantly from the west
2022-05-27	141.4	-	257.6	19.3	44.2	Winds predominantly from the west
Total # of Exceedances	13	0				
Maximum # of Exceedances (May)	20 (2014)	3 (2019)				
Average # of Exceedances (May)	12	0				
Minimum # of Exceedances (May)	2 (2020)	0 (2010, 2012, 2013, 2015, 2017, 2018, 2020, 2021)				

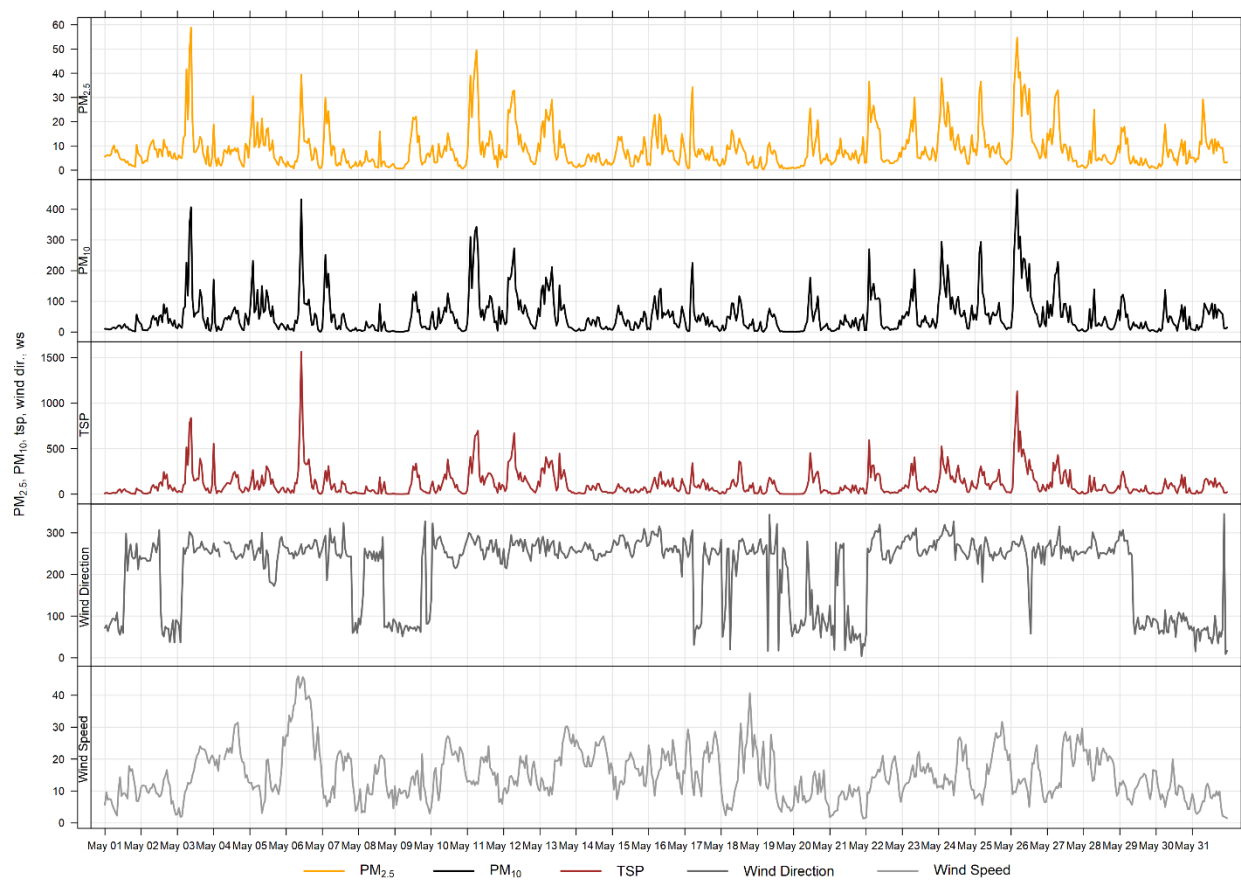


Figure 7-1 1-hour particulate matter concentrations recorded at the Entrance monitor

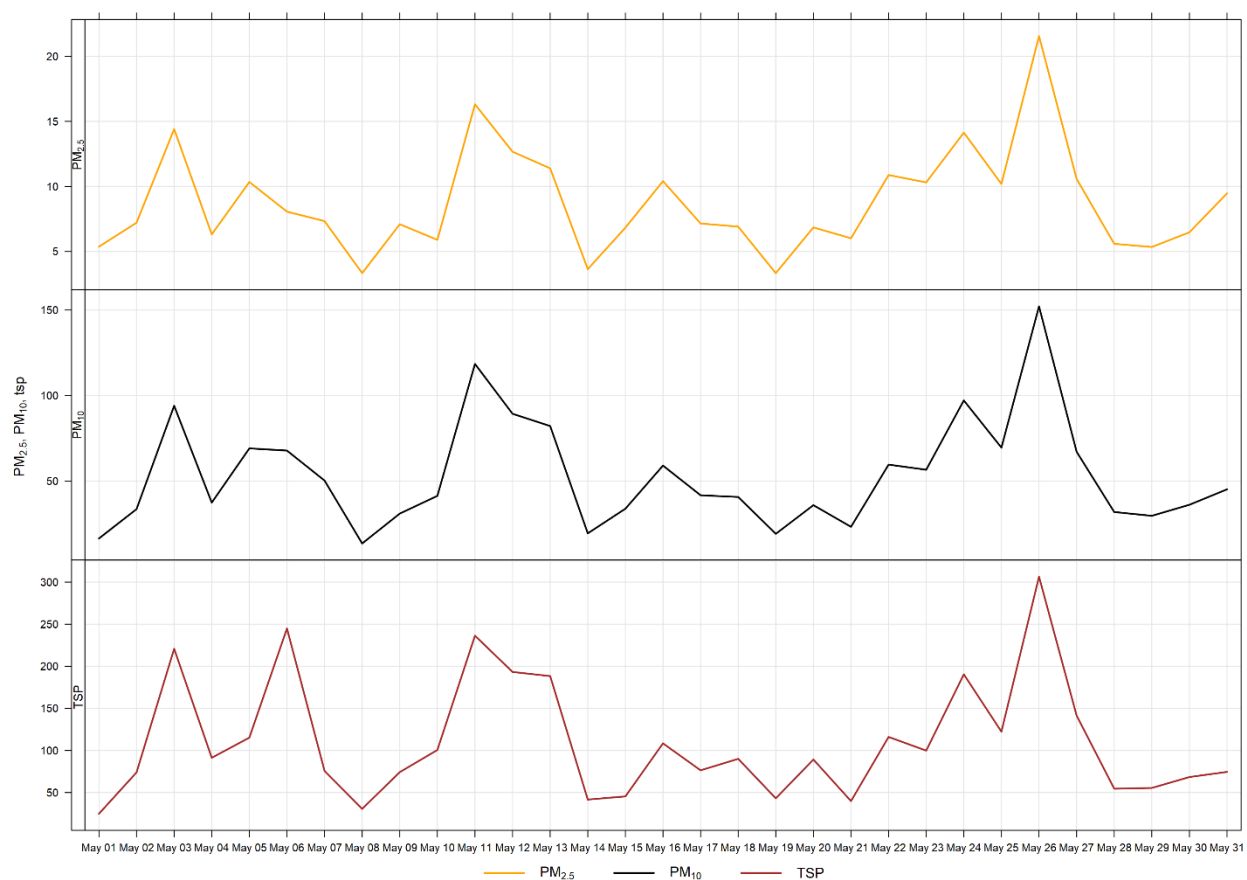


Figure 7-2 24-hour particulate matter concentrations at the Entrance monitor

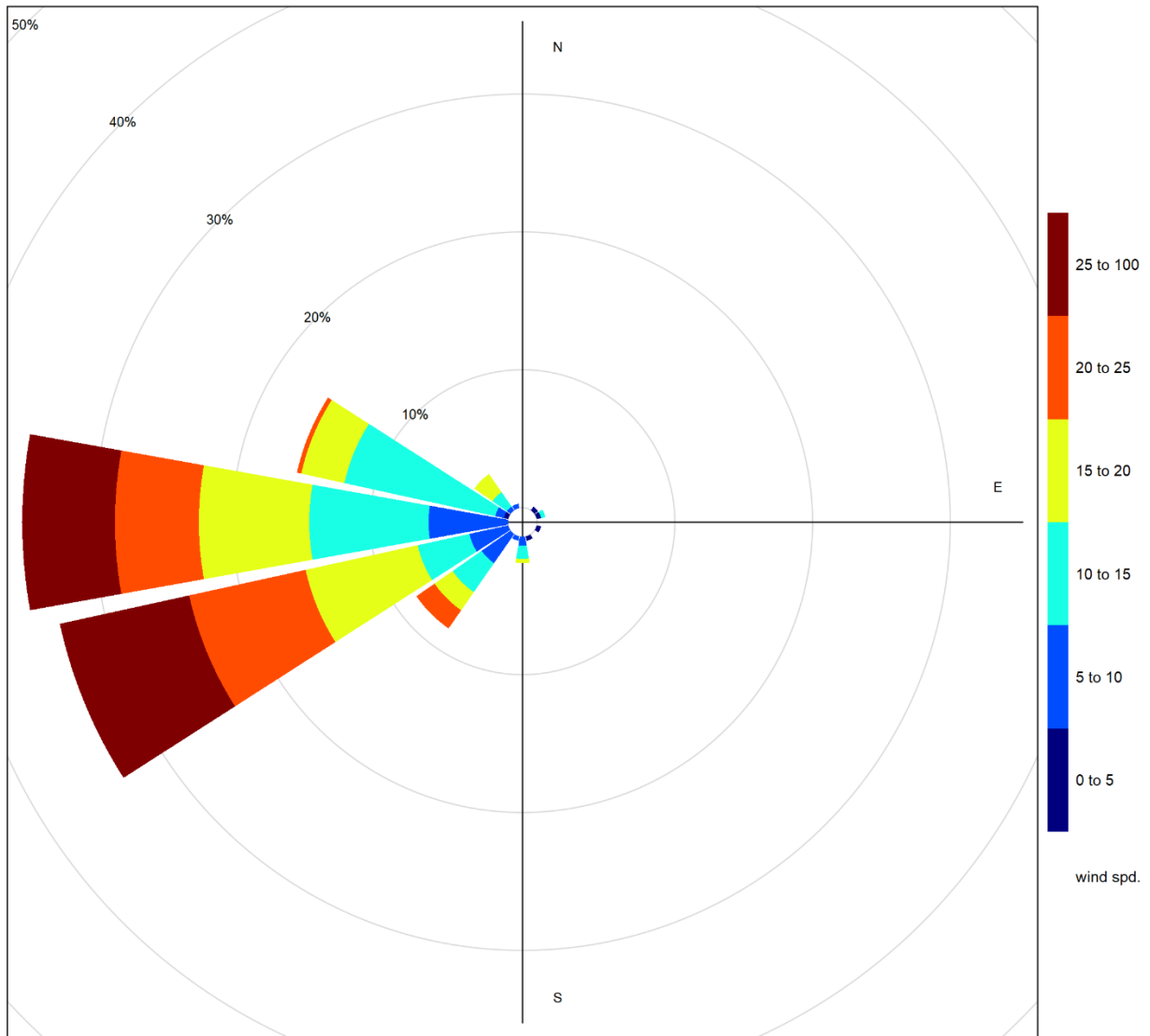


Figure 7-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

Figure 7-4 illustrates the hourly PM concentrations recorded at the Entrance monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 7-4 is based on data collected during May 2022. The diurnal pattern differs from the Windridge, Lagoon and Berm stations and are likely more influenced by daytime traffic emission (from vehicles serving Lafarge as well as regular highway traffic) given its location near the highway entrance to Lafarge.

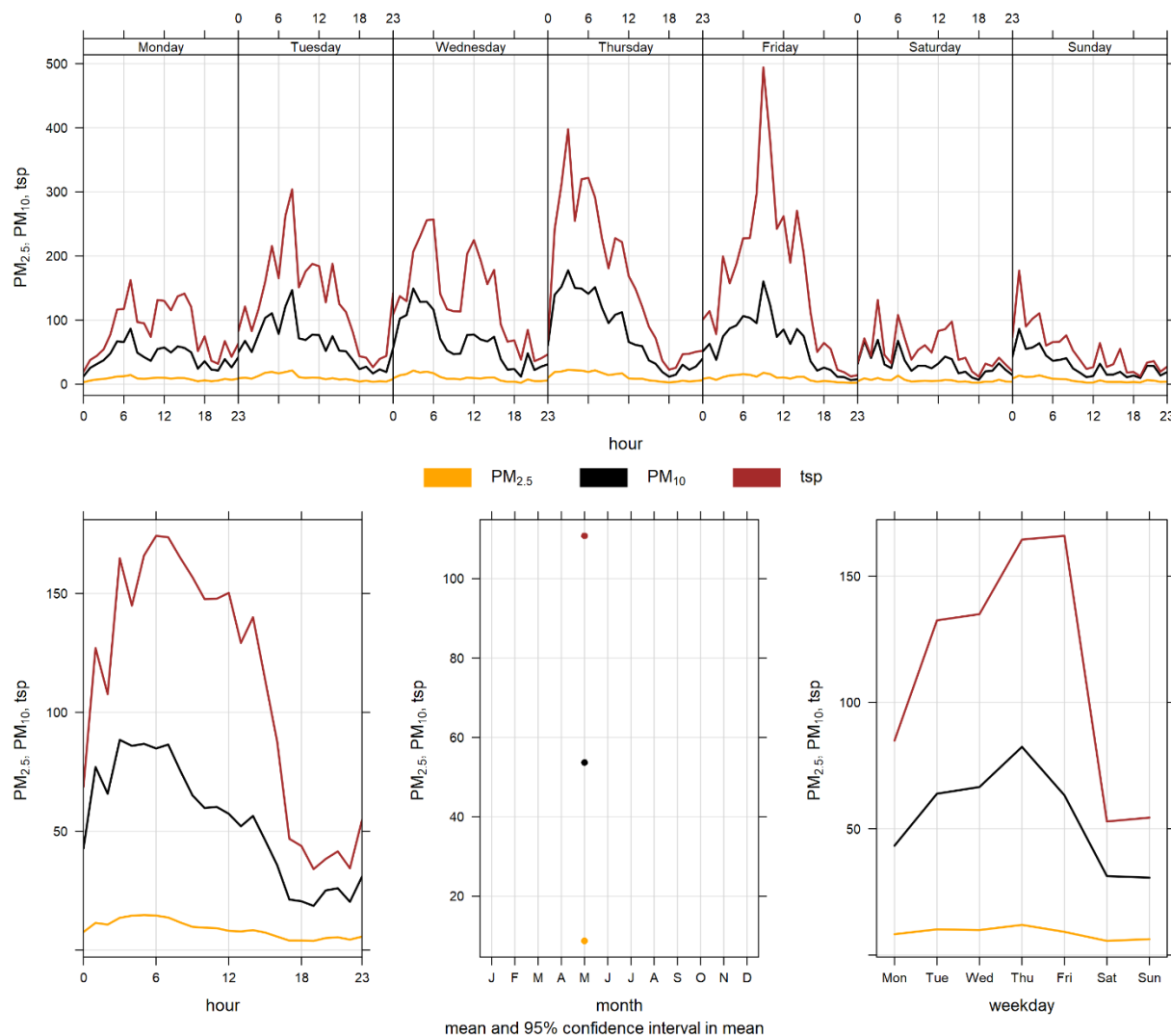


Figure 7-4 Entrance particulate matter time variation

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

APPENDIX

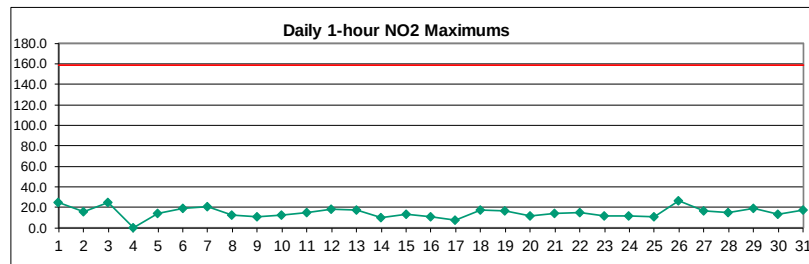
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – May 2022

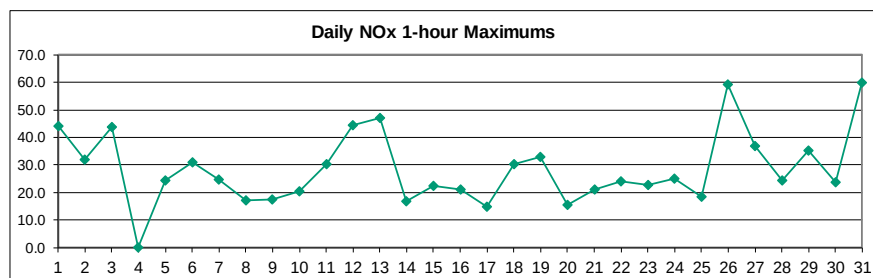
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.5	S	11.0	11.2	25.1	15.5	10.4	22.6	11.0	8.9	6.2	6.7	5.3	2.9	2.8	3.8	5.9	1.9	1.5	1.6	9.3	3.9	4.1	5.2	8.0	25.1
2	5.9	S	5.4	6.0	7.9	9.0	10.0	15.5	10.0	7.7	5.4	13.2	7.2	3.0	3.7	6.9	6.6	3.5	7.3	6.0	7.6	6.7	14.0	9.8	7.7	15.5
3	12.5	S	8.1	11.9	8.7	18.3	16.1	13.0	14.7	20.9	6.6	8.1	6.5	7.1	10.3	15.6	10.9	10.2	5.7	3.3	4.9	2.4	5.4	24.9	10.7	24.9
4	10.7	S	7.3	1.6	P	P	14.3	11.5	10.8	12.2	C	C	C	C	C	C	1.8	2.1	1.4	1.4	7.0	10.0	8.4	7.3	-	-
5	5.0	S	3.7	5.3	3.0	8.2	14.3	11.2	9.3	8.9	9.2	5.1	1.3	5.5	1.4	1.1	1.4	1.8	5.1	12.1	7.6	7.1	5.0	3.0	5.9	14.3
6	4.2	S	1.9	3.1	1.5	6.8	2.3	3.2	15.2	18.4	5.0	3.8	11.7	15.0	19.0	9.9	7.5	12.4	13.4	8.9	10.8	2.9	5.5	4.2	8.1	19.0
7	3.5	S	12.6	7.4	10.2	6.2	6.0	5.9	2.2	2.3	3.7	1.3	2.7	2.6	7.5	3.3	3.3	1.6	1.8	2.6	6.3	12.3	11.2	20.7	6.0	20.7
8	10.9	S	8.0	7.7	12.6	13.0	11.9	7.9	8.9	6.8	1.7	6.8	1.4	2.7	1.5	3.9	5.6	2.8	9.0	2.5	5.2	6.1	4.8	1.4	6.2	13.0
9	2.3	S	2.1	2.2	11.0	4.7	7.6	3.1	5.8	5.4	4.3	5.7	5.0	4.0	6.6	4.9	6.7	1.5	1.8	4.4	5.2	7.0	8.0	5.0	5.0	11.0
10	8.2	S	3.9	7.0	5.4	8.7	11.3	12.2	4.1	2.6	1.3	1.5	0.9	1.1	0.7	0.8	0.7	0.7	1.3	0.7	0.7	5.5	7.9	4.7	4.0	12.2
11	4.5	S	3.7	3.1	3.7	7.2	8.2	8.6	6.1	4.7	2.4	1.0	5.7	5.5	11.5	15.3	9.2	6.4	9.3	1.1	2.4	5.3	8.1	6.4	6.1	15.3
12	10.8	S	7.9	13.3	7.0	16.3	13.3	12.0	18.7	6.9	7.4	7.9	7.5	8.5	4.5	4.7	1.5	1.1	7.1	4.6	3.8	8.1	7.6	3.9	8.0	18.7
13	17.8	S	10.4	8.7	9.3	12.2	14.5	10.7	14.2	2.9	6.4	1.7	6.8	2.3	2.8	1.8	0.8	0.6	3.4	3.1	3.5	3.4	6.0	2.2	6.3	17.8
14	2.1	S	2.5	10.0	10.3	6.5	6.1	4.3	5.3	2.4	3.5	0.5	0.5	2.4	3.8	1.9	0.7	2.4	0.8	3.5	5.2	1.8	5.9	2.9	3.7	10.3
15	6.2	S	4.4	4.2	3.6	4.6	5.8	6.5	3.9	9.5	9.1	0.9	1.1	0.8	9.8	11.7	6.5	13.7	5.2	5.5	3.3	4.8	4.2	3.9	5.6	13.7
16	2.8	S	10.0	7.7	9.7	7.9	3.7	8.8	3.3	1.1	7.0	10.6	5.3	9.5	9.3	3.9	5.2	10.4	6.7	3.2	5.1	8.2	8.3	7.8	6.8	10.6
17	6.4	S	1.0	4.7	6.6	8.0	5.1	1.5	4.3	1.7	3.3	2.9	8.0	2.4	1.7	0.6	3.3	7.6	2.6	5.3	3.2	4.3	3.9	5.2	4.1	8.0
18	13.5	S	13.6	11.1	10.0	13.1	16.3	16.2	7.9	1.0	11.9	16.3	10.0	15.1	6.1	8.9	3.7	4.5	4.3	7.3	17.9	2.8	2.3	2.5	9.4	17.9
19	6.2	S	4.2	0.8	2.9	7.9	16.8	13.7	2.4	2.8	3.7	4.1	12.5	15.7	3.3	2.3	2.8	3.9	2.3	3.0	3.0	1.5	6.4	4.0	5.5	16.8
20	0.4	S	8.0	4.2	0.3	0.8	2.4	3.5	7.2	6.7	4.4	3.0	1.3	2.4	0.7	0.9	1.2	7.9	1.1	1.3	2.7	6.1	11.7	5.6	3.6	11.7
21	9.2	S	11.7	9.8	5.7	9.1	8.8	7.9	8.2	4.8	14.3	6.5	3.6	1.7	3.0	3.6	6.5	7.2	2.1	2.0	7.9	4.7	8.9	11.8	6.9	14.3
22	6.8	S	10.8	14.8	11.6	8.8	7.1	10.7	5.3	4.2	0.9	5.1	1.0	8.1	5.7	0.7	0.9	4.6	1.9	3.6	5.3	10.6	6.3	6.6	6.2	14.8
23	12.1	S	3.6	5.5	5.9	6.7	6.7	11.0	6.2	2.3	0.8	2.1	6.0	7.2	5.1	4.4	3.6	5.5	2.8	2.8	3.3	3.9	4.9	6.5	5.2	12.1
24	5.4	S	8.2	8.4	5.4	7.3	11.0	11.8	11.0	9.7	2.6	9.7	6.6	4.4	5.2	4.1	1.2	1.0	1.1	0.6	2.8	7.4	8.1	12.1	6.3	12.1
25	6.1	S	3.9	8.0	8.4	8.3	8.1	11.0	9.9	3.3	2.3	1.2	3.5	1.9	5.0	4.0	5.1	0.9	1.1	0.5	0.9	3.5	4.9	5.2	4.6	11.0
26	4.6	S	6.9	10.5	8.2	8.9	15.1	18.3	23.6	26.7	8.9	13.0	25.6	5.7	7.2	1.5	2.4	10.1	3.5	0.9	3.6	2.3	9.8	2.0	9.5	26.7
27	5.9	S	5.0	7.0	12.4	11.7	17.0	9.2	11.0	4.1	4.9	3.0	3.3	3.5	4.1	1.5	1.5	2.7	3.0	0.6	1.1	1.4	1.7	2.0	5.1	17.0
28	1.7	S	5.8	15.3	11.4	7.2	7.5	6.6	3.2	2.4	5.1	5.1	4.6	4.9	3.0	7.3	8.9	3.0	6.4	1.4	2.7	7.6	5.2	10.6	5.9	15.3
29	16.2	S	18.5	19.4	8.9	7.9	13.6	11.7	13.1	4.5	1.8	1.1	2.8	1.8	3.0	4.7	5.7	1.0	1.5	1.0	3.9	1.1	1.0	1.0	6.3	19.4
30	0.9	S	7.5	9.7	13.5	4.6	8.9	4.5	1.4	1.0	1.2	1.1	1.5	1.8	0.8	0.6	0.7	4.5	3.3	0.9	1.9	5.0	12.7	12.6	4.4	13.5
31	11.1	S	6.6	6.6	10.8	10.1	9.0	15.8	17.8	3.6	3.5	3.0	6.5	4.9	3.6	3.5	2.7	5.4	7.4	2.6	14.4	6.4	4.3	6.0	7.2	17.8
NO.	31	-	31	31	30	30	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	705	99.7%
MEAN	7.1	-	7.0	8.0	8.4	8.9	10.0	10.0	8.9	6.5	5.0	5.1	5.5	5.1	5.1	4.6	4.0	4.6	4.0	3.2	5.2	5.3	6.7	6.7		
MAX	17.8	-	18.5	19.4	25.1	18.3	17.0	22.6	23.6	26.7	14.3	16.3	25.6	15.7	19.0	15.6	10.9	13.7	13.4	12.1	17.9	12.3	14.0	24.9		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	705
Maximum 1-HR Average	26.7 PPB
Maximum 24-HR Average	10.7 PPB
Monthly Calibration	6
Standard Deviation	4.5
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	6.3 PPB

Lagoon NOx (ppb) – May 2022

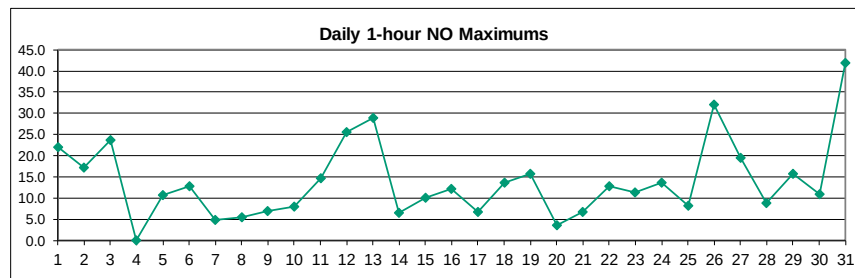
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.6	S	11.3	12.3	35.1	16.5	11.6	44.1	16.1	12.7	7.9	8.8	6.1	3.2	3.0	4.3	7.9	1.9	1.4	1.6	17.2	3.8	4.4	5.9	10.6	44.1
2	6.0	S	5.3	6.1	8.0	9.3	12.3	32.1	15.5	10.4	7.4	20.5	9.7	3.3	4.7	9.8	9.0	3.8	9.1	7.9	7.6	6.5	14.2	9.7	9.9	32.1
3	13.6	S	8.9	19.7	9.8	26.8	26.4	21.7	27.7	43.9	9.5	11.7	10.7	10.4	17.1	28.2	19.5	15.0	7.2	3.5	5.3	2.3	6.5	43.4	16.9	43.9
4	16.0	S	8.6	1.5	P	P	24.4	20.1	16.8	21.0	C	C	C	C	C	C	2.0	2.4	1.3	1.3	8.9	13.8	9.2	9.3	-	-
5	6.1	S	3.7	6.8	3.2	11.1	24.5	18.4	17.9	13.7	17.5	6.0	1.2	13.6	1.3	1.0	1.3	1.7	5.5	15.9	10.0	9.0	5.6	3.1	8.6	24.5
6	5.4	S	1.9	4.4	1.7	10.3	2.6	4.0	26.4	31.1	6.3	4.6	20.6	22.7	29.6	13.5	10.6	19.3	19.9	11.6	14.8	3.7	6.9	5.9	12.1	31.1
7	3.7	S	13.7	7.4	10.5	6.7	6.8	7.6	2.3	2.6	5.3	1.4	4.0	4.6	12.1	4.8	4.6	1.6	2.0	2.8	6.4	14.4	11.2	24.8	7.0	24.8
8	12.6	S	8.0	7.8	15.7	14.9	17.1	11.1	12.2	11.1	2.1	10.9	1.6	6.3	1.9	5.5	7.3	2.8	10.5	2.6	6.3	6.8	4.9	1.3	7.9	17.1
9	2.5	S	2.0	2.3	17.6	5.7	12.6	3.7	10.0	9.8	7.0	10.6	7.9	5.9	9.2	7.1	8.4	1.8	2.0	5.0	5.4	9.4	8.9	5.5	7.0	17.6
10	14.6	S	4.2	9.6	5.6	14.0	17.9	20.5	5.9	4.1	1.9	2.4	1.1	1.5	0.8	0.9	0.7	0.6	1.8	0.6	0.7	8.3	10.3	5.1	5.8	20.5
11	5.3	S	4.8	3.8	4.0	11.2	14.6	15.9	11.3	8.3	3.8	1.3	10.5	9.1	22.8	30.4	16.8	9.7	13.0	1.1	2.3	9.7	8.9	8.4	9.9	30.4
12	10.9	S	8.6	21.1	13.3	37.6	24.1	26.0	44.6	11.2	13.7	14.4	12.7	15.0	7.0	7.3	1.6	1.2	10.1	5.0	3.8	11.3	9.6	4.5	13.7	44.6
13	47.0	S	14.5	10.9	12.2	16.2	18.3	13.3	21.8	3.5	12.1	2.2	14.3	3.3	4.3	2.4	0.9	0.6	4.7	3.6	3.8	3.9	8.0	2.5	9.8	47.0
14	2.1	S	2.5	16.8	15.7	8.4	8.5	6.5	9.9	3.8	6.0	0.5	0.5	4.3	7.9	3.1	0.7	3.2	0.7	3.8	6.5	1.8	6.6	3.1	5.3	16.8
15	6.6	S	4.5	4.6	4.0	5.5	8.0	8.3	4.3	17.3	17.3	1.1	1.6	0.9	20.2	19.7	9.3	22.5	6.6	8.7	3.9	6.0	4.4	4.5	8.2	22.5
16	3.4	S	14.7	10.4	15.0	11.1	4.9	21.2	4.8	1.4	11.8	17.8	9.8	19.6	17.9	5.9	9.5	19.3	10.3	3.6	6.2	11.9	12.8	11.8	11.1	21.2
17	9.1	S	1.0	6.0	10.0	10.4	6.8	1.8	5.5	2.0	4.0	3.7	15.0	3.3	2.2	0.6	5.1	11.5	3.2	7.1	3.6	5.8	4.3	7.1	5.6	15.0
18	14.3	S	15.1	11.8	10.8	19.1	25.6	25.6	10.9	1.1	16.7	30.2	19.4	27.1	8.4	14.9	5.7	7.2	6.0	11.1	25.9	3.2	2.8	2.8	13.7	30.2
19	6.9	S	4.7	0.7	3.2	8.8	32.8	22.6	3.5	3.8	5.1	5.3	23.0	21.4	3.7	2.6	3.1	4.2	2.5	3.1	3.0	1.4	10.4	4.6	7.9	32.8
20	0.3	S	9.6	7.1	0.2	0.6	4.0	7.4	10.5	9.2	6.1	4.1	1.5	3.7	0.7	0.9	1.7	10.5	1.0	1.1	2.7	6.1	15.7	6.4	4.8	15.7
21	9.7	S	12.4	11.2	5.8	10.6	11.7	11.0	12.6	6.2	21.2	9.1	4.6	2.0	3.9	4.7	8.2	11.0	3.4	2.3	8.6	4.7	9.8	12.7	8.6	21.2
22	9.2	S	12.9	24.2	20.5	12.4	11.0	23.7	7.9	7.0	1.2	8.0	1.1	13.8	8.0	0.7	0.9	6.5	2.0	4.1	5.6	14.1	6.4	7.5	9.1	24.2
23	20.3	S	4.6	8.3	7.7	10.8	13.5	22.7	10.1	3.0	0.8	2.8	9.4	12.9	8.1	7.0	5.0	8.2	3.5	3.0	3.4	4.7	7.3	9.5	8.1	22.7
24	7.1	S	12.1	13.7	6.4	11.2	21.9	25.1	24.8	15.6	3.5	22.5	13.3	8.4	9.4	7.5	1.4	1.2	1.1	0.4	3.9	9.6	10.1	18.5	10.8	25.1
25	7.0	S	4.4	11.1	8.6	9.4	10.6	17.7	18.4	4.3	3.1	1.6	5.4	2.7	7.9	7.6	7.3	0.8	1.2	0.4	0.9	3.8	5.1	5.4	6.3	18.4
26	4.5	S	7.3	13.3	10.1	11.0	22.6	30.5	47.3	59.1	11.8	17.0	45.0	7.4	12.8	1.7	2.9	15.1	4.3	0.9	3.6	2.3	13.6	2.2	15.1	59.1
27	6.1	S	4.9	7.4	16.7	15.0	36.8	13.8	17.5	5.0	8.4	6.2	6.8	6.5	7.1	2.2	2.1	4.0	3.8	0.6	1.1	1.3	1.8	2.0	7.7	36.8
28	1.8	S	6.3	24.3	13.7	8.9	11.4	9.2	4.2	3.1	9.5	7.6	7.2	9.9	4.7	11.5	14.6	4.1	11.5	1.3	2.8	11.5	6.2	15.5	8.7	24.3
29	24.7	S	34.0	35.3	10.2	11.0	17.2	15.5	18.3	6.1	2.1	1.2	4.0	2.4	4.1	7.2	8.2	0.9	1.5	1.0	3.8	0.9	1.0	0.9	9.2	35.3
30	0.9	S	10.0	11.0	17.7	4.9	12.6	5.7	1.7	1.1	1.4	1.4	2.1	2.9	0.8	0.6	0.7	5.8	4.3	0.9	2.0	5.2	15.0	23.6	5.7	23.6
31	14.0	S	9.1	32.2	43.4	24.9	16.7	55.6	59.8	4.5	4.6	3.5	9.1	7.0	5.0	4.7	3.2	8.2	8.7	2.7	19.9	6.4	4.3	6.0	15.4	59.8
NO.	31	-	31	31	30	30	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	705	99.7%
MEAN	9.6	-	8.6	11.7	11.9	12.5	15.8	18.1	16.1	10.9	7.6	7.9	9.3	8.5	8.2	7.3	5.8	6.7	5.3	3.8	6.4	6.6	7.9	8.8		
MAX	47.0	-	34.0	35.3	43.4	37.6	36.8	55.6	59.8	59.1	21.2	30.2	45.0	27.1	29.6	30.4	19.5	22.5	19.9	15.9	25.9	14.4	15.7	43.4		



Number of Non-Zero Readings	705
Maximum 1-HR Average	59.8 PPB
Maximum 24-HR Average	16.9 PPB
Monthly Calibration	6
Standard Deviation	8.579
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	9.4 PPB

Lagoon NO (ppb) – May 2022

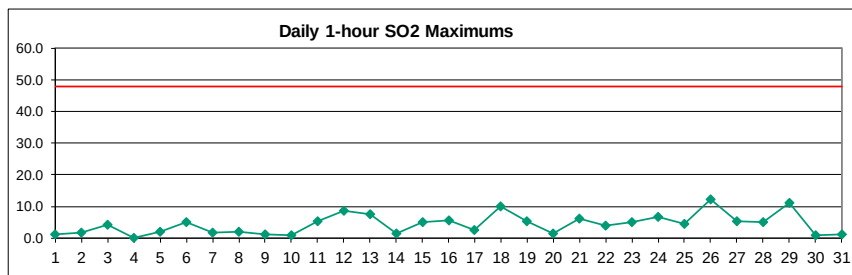
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.9	S	1.0	1.9	10.6	1.8	2.1	22.1	5.8	4.6	2.4	2.8	1.7	1.1	1.0	1.3	2.8	0.8	0.7	0.7	8.7	0.8	1.1	1.5	3.4	22.1
2	0.9	S	0.7	0.9	0.8	1.1	3.1	17.3	6.3	3.5	2.8	8.1	3.3	1.1	1.8	3.7	3.1	1.1	2.6	2.8	0.8	0.7	1.0	0.7	3.0	17.3
3	1.9	S	1.5	8.5	2.0	9.2	11.0	9.4	13.7	23.7	3.8	4.5	5.0	4.2	7.6	13.4	9.5	5.5	2.3	1.0	1.2	0.7	1.9	19.2	7.0	23.7
4	6.0	S	2.1	0.7	P	P	11.0	9.5	6.9	9.6	C	C	C	C	C	C	0.6	0.7	0.3	0.4	2.4	4.3	1.2	2.5	-	-
5	1.6	S	0.4	1.9	0.6	3.3	10.7	7.6	9.0	5.2	8.7	1.3	0.4	8.6	0.4	0.3	0.4	0.4	0.9	4.2	2.9	2.4	1.0	0.6	3.2	10.7
6	1.6	S	0.4	1.6	0.4	3.9	0.6	1.1	11.6	12.9	1.7	1.1	9.3	8.0	10.8	3.9	3.4	7.2	6.9	2.9	4.3	1.1	1.7	2.0	4.3	12.9
7	0.5	S	1.5	0.4	0.6	0.9	1.0	1.9	0.4	0.6	1.8	0.4	1.5	2.2	4.8	1.7	1.6	0.3	0.5	0.4	0.4	2.5	0.4	4.4	1.3	4.8
8	2.1	S	0.4	0.5	3.4	2.3	5.6	3.7	4.6	0.7	4.4	0.5	4.0	0.7	2.0	2.0	0.4	1.9	0.4	1.5	1.1	0.5	0.3	0.3	2.0	5.6
9	0.6	S	0.3	0.5	7.0	1.4	5.3	0.9	4.5	4.7	3.1	5.3	3.3	2.2	2.9	2.5	1.8	0.1	0.1	0.5	0.1	2.3	0.8	0.4	2.2	7.0
10	6.2	S	0.2	2.5	0.1	5.1	6.4	8.0	1.6	1.3	0.4	0.6	0.1	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	2.6	2.3	0.3	1.7	8.0
11	0.6	S	0.9	0.4	0.2	3.7	6.2	7.2	5.1	3.3	1.1	0.1	4.7	3.4	11.0	14.8	7.4	3.1	3.5	0.0	0.0	4.3	0.6	1.8	3.6	14.8
12	0.0	S	0.5	7.5	6.1	20.9	10.5	13.7	25.5	4.1	6.0	6.3	5.0	6.3	2.2	2.4	0.0	0.0	2.9	0.3	0.0	3.1	1.9	0.4	5.5	25.5
13	29.0	S	3.9	2.1	2.7	3.9	3.6	2.4	7.3	0.5	5.6	0.3	7.3	0.8	1.3	0.5	0.0	0.0	1.1	0.3	0.1	0.3	1.7	0.1	3.2	29.0
14	0.0	S	0.0	6.6	5.2	1.7	2.1	2.0	4.4	1.2	2.3	0.0	0.0	1.8	3.9	1.0	0.0	0.6	0.0	0.1	1.1	0.0	0.5	0.0	1.5	6.6
15	0.2	S	0.0	0.2	0.2	0.7	2.0	1.7	0.3	7.6	7.9	0.0	0.3	0.0	10.2	7.7	2.6	8.6	1.2	3.0	0.5	1.0	0.0	0.5	2.5	10.2
16	0.5	S	4.5	2.5	5.0	3.0	1.0	12.2	1.3	0.1	4.7	7.0	4.3	9.8	8.3	1.8	4.1	8.6	3.3	0.1	0.8	3.5	4.3	3.8	4.1	12.2
17	2.5	S	0.0	1.2	3.2	2.2	1.5	0.1	1.1	0.1	0.5	0.6	6.8	0.7	0.3	0.0	1.5	3.6	0.3	1.5	0.2	1.2	0.2	1.7	1.4	6.8
18	0.6	S	1.4	0.5	0.7	5.8	9.0	9.1	2.8	0.0	4.6	13.6	9.1	11.7	2.1	5.8	1.8	2.5	1.5	3.5	7.8	0.1	0.3	0.0	4.1	13.6
19	0.5	S	0.2	0.0	0.0	0.7	15.7	8.6	0.9	0.8	1.2	1.0	10.2	5.5	0.3	0.1	0.2	0.2	0.1	0.0	0.0	0.0	3.7	0.4	2.2	15.7
20	0.0	S	1.5	2.8	0.0	0.0	1.4	3.7	3.2	2.3	1.5	0.8	0.0	1.1	0.0	0.0	0.3	2.5	0.0	0.0	0.0	0.0	3.7	0.6	1.1	3.7
21	0.4	S	0.5	1.2	0.0	1.4	2.7	3.0	4.2	1.2	6.7	2.4	0.8	0.1	0.8	0.9	1.5	3.6	1.1	0.1	0.6	0.0	0.8	0.7	1.5	6.7
22	2.3	S	1.9	9.1	8.6	3.4	3.6	12.7	2.4	2.6	0.1	2.7	0.0	5.5	2.1	0.0	0.0	1.7	0.0	0.2	0.1	3.3	0.0	0.7	2.7	12.7
23	7.9	S	0.8	2.6	1.7	3.8	6.6	11.4	3.7	0.5	0.0	0.5	3.2	5.5	2.8	2.3	1.2	2.5	0.5	0.1	0.0	0.6	2.1	2.9	2.8	11.4
24	1.4	S	3.7	5.1	0.8	3.8	10.7	13.1	13.6	5.7	0.7	12.5	6.4	3.8	3.9	3.1	0.0	0.0	0.0	0.0	0.9	2.0	1.8	6.1	4.3	13.6
25	0.7	S	0.3	3.0	0.2	1.0	2.3	6.5	8.2	0.8	0.6	0.2	1.6	0.6	2.6	3.4	2.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.5	8.2
26	0.0	S	0.3	2.6	1.7	1.9	7.2	11.8	23.3	32.0	2.6	3.8	19.1	1.4	5.3	0.0	0.3	4.7	0.6	0.0	0.0	3.6	0.0	0.0	5.3	32.0
27	0.0	S	0.0	0.2	4.0	3.1	19.6	4.3	6.2	0.7	3.3	3.1	3.4	2.9	2.8	0.5	0.5	1.2	0.7	0.0	0.0	0.0	0.0	0.0	2.5	19.6
28	0.0	S	0.4	8.8	2.3	1.6	3.8	2.5	0.9	0.6	4.3	2.5	2.5	4.9	1.6	4.1	5.6	1.0	5.0	0.0	0.1	3.9	0.9	4.8	2.7	8.8
29	8.4	S	15.3	15.7	1.3	3.0	3.6	3.7	5.1	1.5	0.2	0.0	1.1	0.5	1.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	15.7
30	0.0	S	2.4	1.2	4.1	0.3	3.6	1.1	0.2	0.1	0.2	0.3	0.6	1.1	0.0	0.0	0.0	1.2	0.9	0.0	0.1	0.1	2.2	10.8	1.3	10.8
31	2.9	S	2.5	25.6	32.4	14.7	7.5	39.7	41.9	0.9	0.9	0.4	2.5	2.0	1.3	1.1	0.4	2.7	1.3	0.0	5.4	0.0	0.0	0.0	8.1	41.9
NO.	31	-	31	31	30	30	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	705	99.7%
MEAN	2.6	-	1.6	3.8	3.5	3.6	5.8	8.1	7.3	4.4	2.7	2.9	3.8	3.4	3.1	2.7	1.8	2.1	1.3	0.7	1.3	1.4	1.3	2.2		
MAX	29.0	-	15.3	25.6	32.4	20.9	19.6	39.7	41.9	32.0	8.7	13.6	19.1	11.7	11.0	14.8	9.5	8.6	6.9	4.2	8.7	4.3	4.3	19.2		



Number of Non-Zero Readings	618		
Maximum 1-HR Average	41.9 PPB		
Maximum 24-HR Average	8.1 PPB		
Monthly Calibration	6	Operational Time	742 HRS
Standard Deviation	4.709	Operational Uptime	99.7 %
		Monthly Average	3.1 PPB

Lagoon SO₂ (ppb) – May 2022

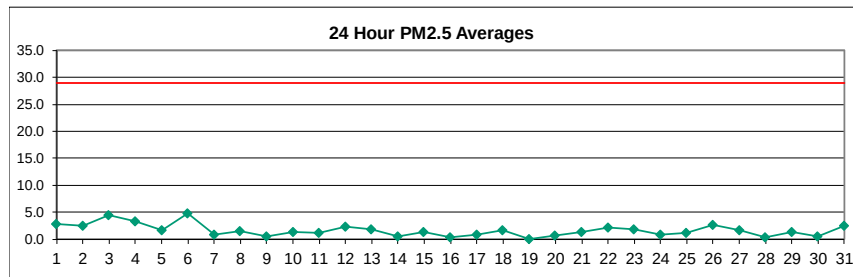
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.2	S	0.4	0.4	0.3	0.4	0.0	0.3	0.1	0.2	0.1	0.6	0.6	0.1	0.6	0.2	1.1	0.0	0.4	0.0	0.4	0.0	0.0	0.1	0.3	1.1
2	0.6	S	0.2	0.6	0.0	0.7	0.7	1.7	0.6	0.3	0.6	1.4	1.1	0.4	0.5	0.7	0.9	0.4	0.7	0.4	0.2	0.6	0.0	0.0	0.6	1.7
3	0.2	S	0.2	0.3	0.1	1.7	1.5	1.2	2.4	4.3	1.3	0.7	1.1	0.9	0.6	2.5	2.0	0.5	0.4	0.4	0.1	0.5	1.2	3.5	1.2	4.3
4	1.8	S	0.1	0.1	P	P	1.6	0.8	1.6	2.4	C	C	C	C	0.2	0.1	0.4	0.6	0.3	0.9	0.7	1.0	0.6	0.5	-	-
5	0.7	S	1.0	0.5	0.0	0.7	1.1	0.5	0.6	1.9	0.6	0.6	1.0	1.0	1.1	0.4	0.8	0.3	1.6	1.6	2.1	1.6	0.7	0.8	0.9	2.1
6	1.5	S	0.7	1.4	0.8	1.3	0.1	1.0	2.0	5.0	1.3	1.1	3.4	3.7	4.6	1.7	2.0	3.4	3.7	2.2	2.9	0.8	0.6	1.1	2.0	5.0
7	0.6	S	1.4	1.2	1.2	1.1	0.9	1.6	0.7	1.0	1.4	1.3	1.5	1.0	1.8	1.0	1.1	0.7	0.2	0.9	1.1	0.6	0.7	0.8	1.0	1.8
8	0.4	S	0.3	0.8	0.8	1.4	1.2	1.5	1.2	2.0	0.7	1.4	0.7	1.5	1.2	1.0	1.3	0.6	0.7	0.8	0.7	0.9	0.5	0.3	0.9	2.0
9	0.5	S	0.5	1.1	1.0	0.6	0.9	1.2	1.1	1.0	0.9	0.7	1.0	0.4	0.3	0.5	1.3	0.2	0.2	1.2	1.0	0.6	0.3	0.6	0.7	1.3
10	0.5	S	1.0	0.3	0.6	0.4	0.2	0.9	0.7	0.9	0.7	0.2	0.2	0.5	0.6	0.7	0.6	0.4	0.4	0.1	0.0	0.0	0.0	0.5	0.5	1.0
11	0.9	S	0.0	0.2	0.0	0.5	1.6	0.6	0.3	0.5	0.4	0.2	1.7	0.9	4.1	5.3	3.6	2.1	2.3	0.0	0.2	0.6	0.0	0.4	1.2	5.3
12	0.0	S	0.7	2.3	1.1	6.6	3.2	2.6	8.6	2.3	5.1	6.0	3.8	4.8	3.1	3.9	0.3	0.4	1.7	0.3	0.0	0.0	0.8	0.7	2.5	8.6
13	7.5	S	2.6	1.2	1.8	1.4	1.0	0.9	0.5	0.4	0.6	0.2	2.4	0.5	3.4	0.0	0.3	0.4	0.6	0.8	0.2	0.0	0.0	0.3	1.2	7.5
14	0.0	S	0.0	0.0	0.0	0.6	0.2	0.5	1.4	0.8	1.5	0.3	0.6	0.2	1.1	1.0	0.8	0.6	0.7	0.2	0.1	0.3	0.6	0.0	0.5	1.5
15	0.8	S	0.7	0.8	0.3	0.6	0.2	0.4	0.5	3.2	4.5	0.1	0.2	0.3	5.0	3.0	1.9	2.3	0.7	0.5	1.2	0.8	0.6	0.0	1.2	5.0
16	0.3	S	2.1	1.6	1.9	1.7	0.6	4.6	0.7	0.5	2.1	2.6	1.9	3.5	3.7	0.6	2.3	5.6	0.9	0.2	0.3	1.2	2.5	1.9	1.9	5.6
17	1.8	S	0.1	0.4	0.9	1.3	0.0	0.1	0.5	0.4	1.0	0.5	2.6	0.7	0.9	0.4	1.2	2.7	0.5	0.7	0.2	0.6	0.1	0.2	0.8	2.7
18	0.8	S	0.3	0.1	0.2	0.4	0.4	1.3	1.1	0.1	3.3	7.7	6.8	6.6	2.4	2.4	1.7	2.0	4.4	3.7	10.0	2.3	1.7	0.9	2.6	10.0
19	0.9	S	0.2	0.4	0.4	1.0	1.0	0.9	1.0	0.3	1.1	1.4	3.0	5.3	0.5	0.6	0.4	0.8	0.3	0.2	0.2	0.1	0.5	0.0	0.9	5.3
20	0.0	S	0.7	0.3	0.7	0.7	0.1	0.3	1.0	1.0	1.4	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.5	0.2	0.2	0.0	0.4	1.4
21	0.0	S	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.0	6.1	0.7	0.6	0.5	0.2	0.1	0.3	0.8	0.2	0.3	0.3	0.0	0.1	0.0	0.5	6.1
22	0.0	S	0.7	4.1	2.4	1.9	1.2	3.3	1.7	0.2	0.5	2.7	0.6	3.7	2.8	0.2	0.2	0.4	0.5	0.9	1.2	0.1	0.4	0.2	1.3	4.1
23	4.1	S	0.9	2.2	1.5	2.6	2.4	4.9	2.5	0.9	0.6	1.4	4.4	3.5	2.6	2.4	1.1	2.6	0.4	0.5	1.3	0.3	0.8	1.2	2.0	4.9
24	1.7	S	3.0	2.6	0.6	1.5	2.6	4.6	5.4	4.0	0.9	6.7	4.0	1.0	0.6	2.6	0.6	0.1	0.8	0.7	0.7	2.4	1.9	1.5	2.2	6.7
25	2.0	S	1.0	2.0	1.4	1.8	1.5	1.8	1.2	0.8	0.2	0.7	2.2	1.1	4.5	1.5	2.3	1.1	0.2	0.9	0.2	1.1	0.5	0.8	1.3	4.5
26	0.4	S	1.4	1.7	1.7	2.5	2.4	4.0	7.1	12.3	1.6	3.6	5.1	1.6	4.2	1.3	0.2	1.9	1.2	1.1	1.0	0.8	1.0	0.6	2.5	12.3
27	0.4	S	1.0	0.9	1.6	1.9	5.4	2.2	2.1	1.6	1.2	0.5	1.9	1.7	2.0	1.2	1.4	1.6	1.7	0.2	1.3	1.0	0.4	1.0	1.5	5.4
28	0.8	S	0.6	3.6	0.8	1.7	2.2	1.8	0.8	1.2	2.9	2.7	1.8	3.8	2.2	3.7	5.1	2.2	2.2	0.3	0.9	1.4	1.4	3.9	2.1	5.1
29	7.7	S	11.1	10.3	0.8	1.4	0.9	0.7	0.6	1.2	0.6	0.6	0.7	0.9	0.6	0.8	0.9	0.6	0.5	0.1	0.0	0.5	0.3	0.7	1.9	11.1
30	0.3	S	0.0	0.9	0.5	0.2	0.7	0.0	0.5	0.2	0.2	0.2	0.1	0.8	1.0	0.4	0.2	0.5	0.1	0.8	0.5	0.2	0.2	0.0	0.4	1.0
31	0.1	S	0.3	0.4	0.8	0.3	0.0	1.3	1.1	0.5	0.0	1.0	0.5	0.5	0.0	0.8	1.2	0.8	0.5	0.1	0.5	0.5	0.2	0.0	0.5	1.3
NO.	31	-	31	31	30	30	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	707	99.7%
MEAN	1.2	-	1.1	1.4	0.8	1.3	1.2	1.5	1.6	1.7	1.5	1.6	1.9	1.7	1.8	1.3	1.2	1.2	0.9	0.7	1.0	0.7	0.6	0.7		
MAX	7.7	-	11.1	10.3	2.4	6.6	5.4	4.9	8.6	12.3	6.1	7.7	6.8	6.6	5.0	5.3	5.1	5.6	4.4	3.7	10.0	2.4	2.5	3.9		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	668
Maximum 1-HR Average	12.3 PPB
Maximum 24-HR Average	2.6 PPB
Monthly Calibration	4
Standard Deviation	1.514
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	1.2 PPB

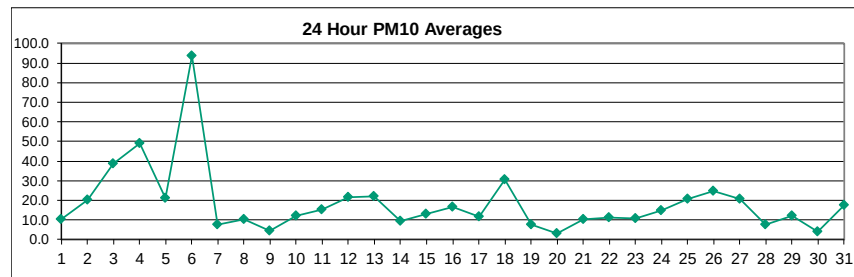
Lagoon PM_{2.5} (µg/m³) – May 2022

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.6	3.3	3.4	4.7	4.5	6.5	6.3	8.4	9.6	6.0	3.3	2.1	0.3	0.0	0.0	0.4	1.7	1.8	0.4	0.0	0.0	1.1	0.8	0.2	2.9	9.6
2	0.1	1.2	2.6	1.8	0.1	0.4	5.2	6.5	4.8	6.5	5.2	1.0	0.0	0.5	1.2	2.3	3.7	3.9	1.3	0.0	0.0	2.7	5.4	4.4	2.5	6.5
3	4.1	5.5	5.8	4.4	5.1	4.5	6.2	6.8	4.7	4.5	11.0	6.8	5.4	4.6	1.8	0.9	3.0	4.3	3.2	2.0	4.3	3.9	2.2	1.6	4.4	11.0
4	3.7	5.0	3.0	4.7	P	P	3.0	3.7	4.2	7.5	11.4	7.4	2.9	1.2	0.3	0.0	0.0	0.1	0.0	0.1	0.7	5.4	5.0	4.0	3.3	11.4
5	3.0	4.0	3.5	0.0	0.0	0.0	1.6	2.5	1.5	1.9	2.4	5.5	5.4	3.5	1.5	0.3	0.0	0.0	0.0	0.0	0.9	2.5	1.1	0.0	1.7	5.5
6	0.0	0.0	0.7	0.0	2.5	1.6	3.3	3.6	2.0	12.7	31.6	4.7	4.1	6.1	10.6	10.3	6.3	2.5	0.8	0.8	1.7	5.7	3.4	0.0	4.8	31.6
7	0.2	2.1	0.3	0.0	1.3	3.6	1.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.2	1.9	2.5	0.4	0.1	0.1	1.1	0.4	0.8	3.6
8	0.2	2.3	3.5	1.4	0.0	3.1	5.8	5.3	2.5	0.1	0.8	0.3	0.0	0.0	4.0	3.2	0.8	1.7	0.0	0.0	0.0	0.0	2.1	0.3	1.6	5.8
9	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.1	0.2	1.9	3.2	1.8	0.0	0.0	0.0	0.1	0.7	0.0	0.8	0.8	0.8	1.5	0.4	0.6	3.2
10	0.0	0.0	0.8	1.0	4.0	3.9	1.9	2.6	6.0	2.8	0.4	0.3	0.0	0.0	0.0	0.0	0.5	1.9	1.4	0.1	0.2	2.2	1.8	1.2	1.4	6.0
11	2.5	1.6	2.5	0.8	0.9	1.4	0.0	0.0	0.8	1.1	0.9	2.5	1.1	0.2	2.6	1.9	1.5	0.8	0.2	1.9	1.8	0.1	0.0	0.8	1.2	2.6
12	0.2	0.8	1.1	0.9	3.0	2.4	5.2	6.7	3.8	5.4	4.2	0.7	0.0	0.5	2.2	2.2	2.5	0.4	0.1	1.5	0.5	2.7	4.4	4.0	2.3	6.7
13	2.9	1.9	2.0	4.4	5.0	3.2	0.8	0.6	3.4	4.4	C	C	C	5.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.8	5.4
14	0.0	X	0.0	0.8	0.3	0.0	4.0	3.9	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	4.0
15	2.7	11.0	7.3	1.3	0.0	0.0	0.0	0.0	3.3	2.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	2.2	0.8	0.0	0.0	1.3	11.0
16	0.0	2.9	1.4	0.0	0.1	0.9	0.3	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	0.9	0.4	2.9
17	2.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	0.0	0.5	2.2	2.6	2.5	1.8	1.4	0.1	0.0	0.0	0.8	3.1
18	0.0	0.0	0.0	0.4	0.0	0.0	2.7	4.7	4.3	3.5	0.8	0.7	5.8	5.9	6.7	3.5	1.1	0.0	0.0	0.0	0.0	0.5	0.9	0.0	1.7	6.7
19	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.5	0.5	1.8	0.3	0.0	0.0	0.1	0.0	0.0	0.5	1.6	1.9	2.2	1.1	0.5	2.5	0.8	2.9
21	0.8	1.6	2.6	3.5	0.8	0.9	2.0	5.1	4.2	0.8	0.0	0.0	1.9	1.7	0.0	0.0	0.0	0.0	1.8	0.0	0.2	3.2	1.1	1.0	1.4	5.1
22	4.8	5.5	5.7	3.9	1.6	3.7	3.9	1.9	1.7	0.0	0.0	1.7	0.7	0.0	0.0	2.3	4.3	2.9	1.1	0.8	0.8	1.5	2.1	0.2	2.1	5.7
23	1.2	2.3	3.4	4.3	3.3	3.7	3.2	0.8	1.6	3.6	1.8	0.5	1.9	1.9	1.8	0.8	0.1	0.2	2.0	4.3	2.4	0.0	0.0	0.0	1.9	4.3
24	0.0	0.0	0.1	0.8	0.0	2.2	2.2	1.0	2.3	3.3	2.4	0.0	0.0	3.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.9
25	0.0	0.0	0.8	0.7	0.0	0.0	2.2	2.8	7.2	5.3	1.8	0.3	0.0	0.0	0.0	0.9	3.6	1.6	0.0	0.0	0.0	0.1	1.2	1.2	1.2	7.2
26	2.7	4.8	6.0	3.3	4.0	4.0	2.8	0.7	0.0	4.5	5.7	3.2	1.2	2.3	4.0	2.9	1.8	0.9	3.6	3.1	0.1	0.0	1.2	1.1	2.7	6.0
27	0.9	3.0	4.2	2.9	2.6	3.8	5.5	6.4	4.3	1.4	0.0	0.0	0.0	0.0	0.0	1.2	1.5	0.9	0.0	0.0	0.4	0.0	0.0	0.0	1.6	6.4
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	2.2	2.1	0.0	1.1	0.3	0.0	0.3	2.2
29	0.2	2.2	2.2	1.1	6.8	4.9	1.8	6.8	4.2	0.7	0.0	0.0	0.0	0.0	0.0	0.8	1.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.4	6.8
30	0.0	0.0	0.0	0.0	0.0	1.5	1.4	0.0	0.4	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.9	1.6	3.7	0.5	3.7
31	5.0	2.3	0.1	1.8	0.7	0.0	3.3	4.0	3.1	6.8	4.2	1.5	1.8	0.8	1.5	1.5	0.8	0.1	0.0	2.2	2.1	6.8	5.4	3.3	2.5	6.8
NO.	31	30	31	31	30	30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	738	99.6%
MEAN	1.3	2.2	2.1	1.6	1.6	1.9	2.5	2.9	2.7	2.8	3.1	1.5	1.2	1.2	1.5	1.3	1.2	1.0	0.8	0.8	0.8	1.5	1.4	1.0		
MAX	5.0	11.0	7.3	4.7	6.8	6.5	6.3	8.4	9.6	12.7	31.6	7.4	5.8	6.1	10.6	10.3	6.3	4.3	3.6	4.3	4.3	6.8	5.4	4.4		



Lagoon PM₁₀ (µg/m³) – May 2022

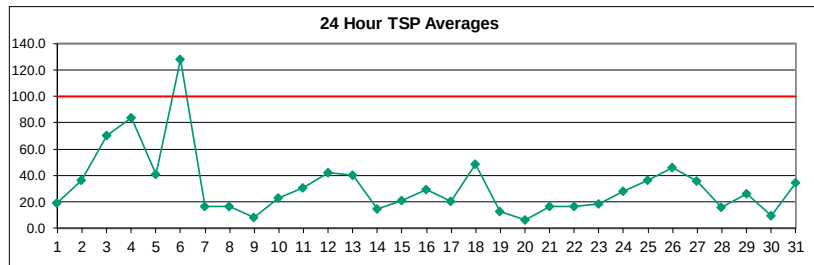
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	11.5	12.4	17.0	8.4	14.7	25.6	23.0	23.9	17.2	11.7	8.3	13.0	16.8	2.2	6.0	3.6	7.6	11.2	5.7	0.0	0.0	2.0	2.7	1.6	10.3	25.6
2	8.3	11.4	10.8	10.3	6.6	5.4	20.4	25.0	49.3	47.2	31.3	22.2	20.4	11.5	15.7	55.5	30.8	24.9	10.5	8.3	10.2	13.8	19.5	18.3	20.3	55.5
3	20.0	24.8	10.3	13.7	17.2	24.1	45.4	57.2	28.4	55.6	97.1	42.5	40.8	45.5	51.1	61.1	91.4	65.9	30.5	20.0	37.3	6.1	7.2	31.2	38.5	97.1
4	92.6	38.3	0.0	62.9	P	P	34.9	89.8	86.2	92.6	101.8	67.0	31.9	34.8	40.0	20.7	75.9	16.0	11.9	7.0	7.7	62.0	58.4	48.1	49.1	101.8
5	24.5	39.7	34.4	9.2	17.7	19.7	22.4	36.8	31.4	36.6	14.4	35.6	41.5	0.0	1.6	7.2	4.0	4.5	3.3	4.2	32.4	31.8	32.6	22.3	21.2	41.5
6	0.0	23.9	50.0	1.2	24.1	12.4	93.3	102.7	74.5	296.7	471.0	234.8	119.8	109.2	165.2	184.6	77.2	29.7	66.1	38.5	38.2	30.9	2.0	1.8	93.7	471.0
7	11.1	5.5	9.4	11.9	8.5	4.9	10.9	24.2	9.2	4.1	7.4	7.3	4.4	0.0	0.0	18.9	6.6	5.1	1.9	1.4	4.4	13.2	8.6	7.4	7.8	24.2
8	7.6	23.2	15.3	12.0	10.7	21.4	29.5	24.1	7.6	10.7	9.5	12.6	0.0	0.0	21.9	3.2	12.2	17.4	2.7	4.4	0.4	0.0	0.0	0.0	10.3	29.5
9	0.0	0.0	0.0	1.4	2.4	0.5	0.0	0.0	0.2	3.9	3.9	3.0	9.8	4.7	5.6	9.8	5.5	6.6	6.0	16.0	0.7	3.4	5.1	12.3	4.2	16.0
10	2.8	6.6	25.2	4.9	8.6	5.9	5.8	51.2	56.9	19.7	19.6	5.9	4.0	2.2	5.9	3.0	0.0	0.0	0.2	5.2	2.4	0.0	11.1	40.6	12.0	56.9
11	15.0	4.7	5.2	0.5	0.0	3.0	11.6	17.1	56.8	18.6	25.3	6.7	7.1	26.3	37.8	18.9	30.0	9.9	20.1	28.3	1.1	9.3	7.2	3.2	15.1	56.8
12	1.6	5.9	5.2	16.8	49.8	7.2	29.2	31.3	34.0	41.2	41.5	33.5	27.0	26.3	26.6	19.1	7.8	3.8	1.4	16.4	20.6	27.1	29.2	19.1	21.7	49.8
13	8.4	15.6	5.6	11.4	34.4	8.1	11.6	49.4	25.8	39.9	C	C	C	57.6	17.0	27.6	19.8	35.5	12.3	19.6	23.7	30.1	9.3	4.0	22.2	57.6
14	0.6	X	0.0	0.0	4.1	6.7	33.5	28.1	10.7	31.7	5.6	9.1	4.6	4.8	8.9	12.6	8.2	6.9	8.7	6.9	8.5	4.5	2.9	7.5	9.3	33.5
15	9.3	7.4	7.3	6.8	9.3	8.5	4.0	7.0	38.2	21.9	45.8	16.1	1.4	1.9	2.7	16.8	16.8	16.9	16.9	17.9	23.2	1.9	1.9	14.3	13.1	45.8
16	4.3	10.7	8.5	4.7	4.0	4.8	18.9	6.7	17.2	11.8	9.9	32.1	38.6	39.7	24.3	24.7	27.1	29.0	27.6	13.1	5.8	7.6	10.8	13.6	16.5	39.7
17	40.3	16.6	0.0	0.0	6.8	8.0	6.7	7.4	8.1	8.0	6.6	6.5	16.3	29.9	8.8	9.8	5.5	8.3	25.7	27.0	27.2	6.8	1.9	0.5	11.8	40.3
18	9.4	8.9	12.4	4.4	10.7	10.0	22.6	41.0	59.0	21.9	4.1	31.9	122.8	103.6	75.7	22.2	8.7	8.2	12.6	55.7	22.6	51.2	8.5	5.2	30.6	122.8
19	3.3	14.5	20.4	9.7	3.4	5.6	21.4	14.8	15.8	8.6	7.9	18.7	14.4	6.3	9.6	0.9	0.0	0.0	1.4	1.2	0.0	0.0	1.9	0.5	7.5	21.4
20	0.0	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.0	10.2	12.4	6.0	6.8	8.6	5.4	2.6	2.7	4.6	2.9	3.2	0.0	0.1	2.7	2.9	3.0	12.4
21	4.1	6.0	5.1	11.8	10.5	6.1	19.4	18.1	28.1	21.0	9.1	16.4	7.9	4.4	0.6	12.5	8.0	8.1	9.8	5.5	7.4	19.6	7.2	4.9	10.5	28.1
22	7.7	14.5	45.5	11.4	10.7	9.0	14.7	13.1	6.3	10.6	6.8	7.9	5.3	4.1	6.0	5.3	5.3	4.0	4.2	7.7	14.1	25.8	15.7	10.7	11.1	45.5
23	8.6	6.6	5.3	4.6	3.4	4.6	4.7	6.5	15.5	14.1	13.0	4.3	9.6	9.0	13.1	5.4	6.8	8.8	8.5	17.3	37.6	32.1	12.7	10.6	10.9	37.6
24	7.2	4.8	8.7	9.2	6.5	4.1	17.0	8.3	24.5	27.6	15.3	11.7	30.7	48.1	34.6	10.2	12.0	10.8	12.0	9.1	3.9	2.5	12.7	24.2	14.8	48.1
25	9.1	5.4	19.8	12.0	9.9	16.0	17.4	30.1	73.7	32.6	8.8	10.2	12.5	30.8	21.7	37.2	38.4	46.3	13.9	9.1	4.0	3.7	9.8	18.2	20.4	73.7
26	17.8	21.7	10.6	8.6	6.8	8.6	15.8	22.4	40.4	74.0	63.9	32.8	40.3	58.7	30.0	22.0	16.9	30.4	29.3	7.4	7.5	14.5	9.2	8.0	24.9	74.0
27	9.6	38.2	24.6	17.8	22.0	15.7	20.3	20.7	16.8	37.2	49.1	43.1	27.0	25.6	15.9	71.0	6.6	6.0	16.5	9.1	4.4	0.0	0.0	0.0	20.7	71.0
28	0.0	0.5	0.0	10.1	23.4	18.8	4.0	5.2	26.0	6.2	7.2	3.2	0.9	6.5	15.4	1.5	7.0	12.6	9.4	9.2	5.2	3.3	2.1	5.3	7.6	26.0
29	4.8	7.2	3.9	7.3	78.4	15.5	4.6	40.3	15.8	21.3	2.6	2.0	2.2	5.4	6.9	10.7	20.9	22.6	2.8	4.5	2.6	2.0	3.9	1.5	12.1	78.4
30	0.0	0.2	0.0	0.0	0.0	3.4	4.4	12.4	5.6	1.6	2.9	6.4	13.0	4.2	8.5	3.8	0.0	2.5	1.2	0.0	0.0	0.0	10.9	13.1	3.9	13.1
31	18.4	8.7	9.4	10.6	10.2	13.7	22.2	34.5	36.2	42.8	8.6	18.6	13.5	14.3	17.6	31.3	10.1	10.1	10.9	14.6	11.1	19.1	23.6	11.5	17.6	42.8
NO.	31	30	31	31	30	30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	738	99.6%
MEAN	11.6	12.8	11.9	9.5	13.8	9.9	19.0	27.4	29.5	34.9	37.0	25.4	23.0	23.4	22.6	23.7	18.4	15.0	12.5	12.5	11.7	13.7	10.7	11.7		
MAX	92.6	39.7	50.0	62.9	78.4	25.6	93.3	102.7	86.2	296.7	471.0	234.8	122.8	109.2	165.2	184.6	91.4	65.9	66.1	55.7	38.2	62.0	58.4	48.1		



Number of Non-Zero Readings	691		
Maximum 1-HR Average	471.0 UG/M3		
Maximum 24-HR Average	93.7 UG/M3		
Monthly Calibration	3	Operational Time	741 HRS
Standard Deviation	29.4	Operational Uptime	99.6 %
		Monthly Average	18.4 UG/M3

Lagoon TSP (µg/m³) – May 2022

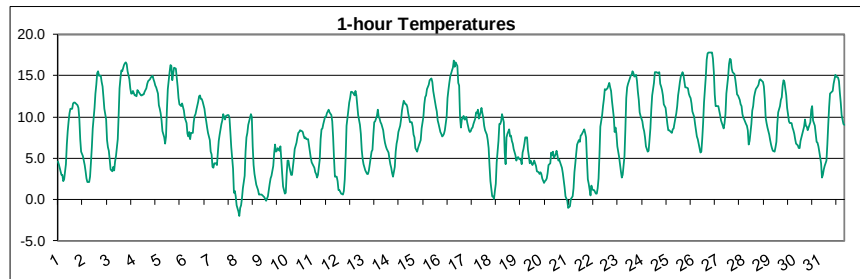
		HOUR																									
Day		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1		15.8	24.0	28.8	21.7	35.0	41.3	34.9	37.6	38.9	18.2	18.0	16.4	33.3	7.2	9.7	7.2	8.9	16.1	3.0	3.1	6.2	13.7	8.1	8.6	19.0	41.3
2		10.0	13.0	19.6	18.6	2.2	13.3	26.0	44.8	76.0	71.4	58.1	30.3	25.0	23.7	24.8	117.3	59.7	59.9	26.4	25.1	26.2	23.2	38.7	34.7	36.2	117.3
3		35.2	44.6	22.7	30.6	31.0	41.1	82.0	97.5	58.9	98.6	171.6	73.4	74.3	91.2	88.7	119.4	174.2	119.7	52.8	28.0	55.0	20.5	15.1	67.5	70.6	174.2
4		205.6	90.1	17.1	99.7	P	P	48.7	149.5	151.9	147.7	161.5	102.6	54.2	56.5	72.9	39.9	81.3	22.4	22.8	7.1	11.7	96.2	108.4	90.2	83.5	205.6
5		44.7	76.5	82.4	18.7	28.5	38.3	29.5	60.1	69.8	76.2	27.7	77.0	88.8	14.8	4.2	1.6	1.5	0.3	2.2	15.9	50.3	57.6	69.3	42.8	40.8	88.8
6		13.6	29.7	13.4	5.3	46.8	19.1	127.7	31.8	69.6	409.0	921.8	201.6	97.9	166.6	209.2	305.2	92.8	43.3	48.5	73.0	67.3	53.0	8.6	10.6	127.7	921.8
7		23.6	21.5	30.4	27.5	20.5	12.6	14.1	39.4	22.4	10.1	13.5	14.8	3.2	8.7	13.8	34.8	9.9	11.1	6.9	3.8	16.3	19.2	12.6	11.7	16.8	39.4
8		21.7	41.0	27.2	15.6	18.8	30.9	34.4	21.8	13.3	21.9	13.0	8.5	8.2	4.8	37.0	2.5	20.5	37.0	1.9	7.0	5.2	2.9	1.4	0.0	16.5	41.0
9		0.0	0.9	1.6	1.5	0.2	0.3	1.5	0.1	0.0	0.3	3.2	7.5	13.9	10.6	10.6	23.5	19.4	16.1	4.3	28.4	12.4	8.9	16.9	17.6	8.3	28.4
10		8.0	26.1	42.7	11.4	14.3	19.8	26.6	80.8	85.6	27.7	29.7	12.9	6.9	3.1	5.8	5.9	8.6	9.7	6.4	17.4	3.0	3.2	11.3	75.6	22.6	85.6
11		36.3	13.4	24.1	6.0	11.1	9.0	19.2	40.3	89.5	29.0	46.2	4.6	12.1	54.9	71.7	32.6	66.8	23.4	43.9	56.7	4.7	11.3	11.1	8.7	30.3	89.5
12		12.9	12.7	15.0	35.9	78.3	15.0	57.4	67.4	57.8	76.3	77.2	69.5	48.2	42.4	54.6	38.0	20.5	12.8	6.8	32.1	36.6	46.5	58.4	34.7	42.0	78.3
13		9.1	19.4	17.6	35.1	64.1	19.1	39.3	94.6	51.1	72.0	C	C	C	105.7	20.0	47.1	40.4	50.8	19.8	34.8	41.7	46.6	7.1	4.3	40.0	105.7
14		2.9	X	1.4	0.0	0.0	9.8	34.7	32.6	20.2	55.8	10.1	13.6	6.0	11.3	12.2	28.4	12.5	9.9	11.2	10.6	23.3	12.5	10.0	12.6	14.9	55.8
15		13.4	27.2	15.0	7.7	17.9	12.3	6.0	13.0	44.4	22.2	70.1	33.3	5.4	3.3	6.8	26.6	28.9	22.4	25.2	28.4	37.2	5.9	10.8	27.2	21.3	70.1
16		18.3	20.6	15.3	13.9	12.7	14.4	20.8	19.1	35.5	22.8	14.9	45.8	71.8	65.1	38.7	35.0	40.9	51.7	50.0	25.5	8.8	14.4	22.0	18.4	29.0	71.8
17		47.6	27.7	0.0	2.1	12.7	12.8	7.4	12.7	14.1	16.1	29.0	25.8	34.3	50.0	24.7	16.2	6.6	23.4	44.3	41.0	26.9	9.7	5.6	3.8	20.6	50.0
18		19.8	24.2	8.5	8.6	10.1	9.7	33.5	63.9	114.1	38.2	1.6	62.8	223.3	179.3	87.9	21.8	11.5	15.1	13.2	72.9	38.7	82.0	8.5	8.2	48.2	223.3
19		4.1	27.1	37.3	8.2	2.8	2.0	34.1	23.0	34.9	16.6	14.6	25.2	26.9	10.2	16.0	1.6	1.7	2.9	1.9	6.9	3.1	3.2	4.2	1.7	12.9	37.3
20		3.0	3.1	1.7	4.4	5.5	1.6	1.5	0.4	4.8	12.5	9.7	7.0	5.9	10.0	12.4	8.2	3.3	9.8	8.4	5.7	4.4	5.9	9.7	5.8	6.0	12.5
21		7.7	17.6	7.6	16.7	14.2	18.5	23.5	20.4	36.6	42.8	13.0	19.1	11.5	16.1	3.1	6.3	17.2	24.5	13.8	9.9	10.5	21.8	11.1	8.4	16.3	42.8
22		15.6	22.9	82.4	15.4	10.1	13.8	10.4	19.1	9.9	11.3	11.0	5.7	4.6	8.7	12.4	8.5	8.4	7.5	13.9	11.0	20.7	40.6	20.6	15.5	16.7	82.4
23		17.1	21.4	4.3	3.0	3.2	7.5	15.2	11.8	22.2	20.9	19.0	8.5	9.0	18.3	20.7	16.5	11.3	11.7	20.4	37.1	55.3	51.1	20.8	18.2	18.5	55.3
24		17.7	8.8	22.4	22.6	3.0	4.4	31.4	20.7	43.3	46.9	40.4	18.7	55.9	88.2	52.5	23.8	26.2	22.1	17.8	11.0	5.9	9.5	29.2	52.3	28.1	88.2
25		18.2	20.7	42.4	30.0	18.7	29.8	42.1	55.4	126.9	50.7	14.2	16.7	17.0	46.3	31.3	70.7	71.0	74.7	20.0	3.0	3.7	16.6	20.1	30.6	36.3	126.9
26		30.3	24.7	18.7	28.7	19.3	14.8	29.7	40.0	64.0	120.1	110.9	62.6	79.5	112.0	56.4	46.2	29.7	65.9	52.5	21.6	9.9	35.2	17.0	20.5	46.2	120.1
27		15.1	60.8	39.6	26.7	30.6	30.9	36.4	44.4	45.5	75.8	72.3	76.0	45.3	35.4	26.9	109.9	13.8	10.8	27.4	18.8	5.7	4.4	5.7	5.6	36.0	109.9
28		2.8	0.2	1.3	22.4	47.2	20.6	14.1	17.6	55.7	8.5	8.8	13.9	12.8	15.7	20.3	10.1	15.5	16.1	13.0	18.6	2.5	20.3	11.4	13.8	16.0	55.7
29		10.1	15.2	10.7	17.8	110.5	28.0	9.2	72.6	31.0	43.1	18.3	20.5	17.3	27.3	17.4	30.2	49.8	45.3	9.9	9.7	6.0	11.4	13.6	5.9	26.3	110.5
30		9.7	5.7	5.6	3.6	12.4	8.3	6.6	31.1	13.7	7.3	11.0	18.4	19.1	9.8	8.2	10.9	4.1	0.3	0.9	0.4	4.4	6.0	11.8	22.6	9.7	31.1
31		28.4	12.9	17.9	13.3	26.4	25.8	39.8	57.6	72.9	85.6	29.6	35.5	28.5	40.1	38.7	60.4	22.5	26.4	25.4	31.7	23.1	38.6	32.5	17.3	34.6	85.6
NO. MEAN MAX	31	30	31	31	30	30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	738	99.6%
	23.2	25.1	21.8	18.5	23.6	17.5	30.2	42.6	50.8	56.6	68.0	37.6	38.0	43.1	35.8	42.1	31.6	27.8	19.8	22.5	20.2	25.5	20.4	22.4			
	205.6	90.1	82.4	99.7	110.5	41.3	127.7	149.5	151.9	409.0	921.8	201.6	223.3	179.3	209.2	305.2	174.2	119.7	52.8	73.0	67.3	96.2	108.4	90.2			



Number of 24HR Exceedences	1
Number of Non-Zero Readings	732
Maximum 1-HR Average	921.8 UG/M3
Maximum 24-HR Average	127.7 UG/M3
Monthly Calibration	3
Standard Deviation	48.6
Operational Time	741 HRS
Operational Uptime	99.6 %
Monthly Average	31.8 UG/M3

Lagoon Temperature (°C) – May 2022

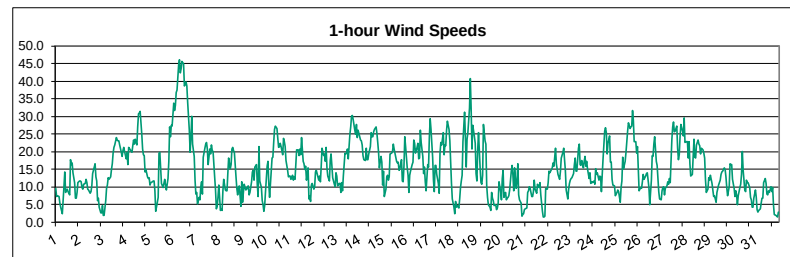
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.6	4.3	3.4	3.0	2.9	2.3	2.4	4.2	6.7	8.3	9.4	10.5	11.0	10.9	11.7	11.8	11.8	11.6	11.4	11.0	9.8	7.3	5.8	5.3	7.6	11.8
2	4.7	4.2	3.4	2.5	2.1	2.1	2.8	4.5	6.4	8.6	11.1	12.8	14.0	15.3	15.5	15.0	15.0	14.3	13.7	12.4	11.0	9.7	7.2	6.3	8.9	15.5
3	5.9	4.8	3.6	3.4	3.9	3.6	4.6	5.2	7.3	10.2	13.5	14.6	15.6	15.5	16.2	16.5	16.6	16.3	15.5	14.5	13.5	12.8	12.8	13.2	10.8	16.6
4	12.6	12.6	12.5	13.2	P	P	12.6	12.6	12.7	12.7	13.0	13.4	14.0	14.4	14.4	14.6	14.8	14.9	14.6	14.2	13.8	13.6	12.9	11.4	13.4	14.9
5	11.0	10.5	9.6	8.3	7.5	6.8	7.6	10.9	13.4	15.4	16.3	16.1	14.4	15.2	15.9	15.8	14.8	13.7	12.3	11.6	11.3	11.7	11.3	10.7	12.2	16.3
6	9.9	9.3	8.0	7.6	8.2	7.3	8.1	8.0	9.3	10.1	10.4	10.9	11.8	12.5	12.6	12.2	12.1	11.9	10.9	10.1	9.5	8.7	8.0	7.2	9.8	12.6
7	5.8	5.5	4.0	3.9	4.3	4.4	4.2	5.7	7.1	7.9	9.1	9.6	10.3	10.0	9.7	10.1	10.2	10.2	9.9	8.2	6.3	3.7	0.8	1.1	6.7	10.3
8	0.4	-0.7	-1.4	-2.0	-1.0	-0.7	0.1	1.4	2.8	5.8	7.5	8.1	9.0	9.9	10.3	10.0	6.4	4.2	3.1	1.8	1.4	1.1	0.6	0.6	3.3	10.3
9	0.6	0.5	0.4	0.2	0.1	-0.1	0.4	1.1	1.9	2.5	2.9	4.0	5.5	6.6	5.8	5.9	6.2	5.9	6.4	4.8	3.1	1.6	0.7	0.8	2.8	6.6
10	3.1	4.7	4.7	4.0	3.0	3.0	3.9	4.9	6.1	6.9	7.6	8.1	8.2	8.4	8.3	8.2	7.7	7.5	7.6	7.3	7.3	6.6	5.8	5.0	6.2	8.4
11	4.5	4.1	3.9	3.3	3.1	2.6	3.0	4.9	7.3	8.5	8.6	9.1	10.0	10.0	10.5	10.6	10.9	10.5	10.2	9.5	7.5	4.9	2.8	2.7	6.8	10.9
12	2.2	1.2	1.1	0.9	0.7	0.6	1.0	2.4	5.2	8.9	10.8	11.7	12.3	13.1	13.1	12.8	12.6	13.2	12.6	11.4	10.2	9.0	7.9	6.0	7.5	13.2
13	4.9	4.3	3.5	3.3	3.1	3.1	3.5	4.2	5.8	6.0	7.9	9.4	9.5	10.1	10.9	10.0	9.8	9.3	9.2	8.4	7.5	6.9	6.4	6.1	6.8	10.9
14	5.7	4.9	4.3	3.9	3.2	2.8	3.9	5.8	6.8	7.3	8.2	8.9	9.7	10.7	11.4	11.9	11.5	11.6	11.2	10.4	9.9	9.4	9.4	8.8	8.0	11.9
15	7.9	7.5	6.3	5.7	6.2	6.5	6.8	7.2	8.7	10.0	11.5	12.4	12.6	13.4	13.9	14.4	14.6	14.7	14.2	13.2	11.8	11.2	10.7	9.5	10.5	14.7
16	9.1	8.2	7.9	7.7	7.7	8.0	8.4	10.0	12.2	13.2	14.1	14.9	15.7	15.9	16.8	16.0	16.6	16.2	14.1	13.8	10.1	8.8	9.7	10.1	11.9	16.8
17	9.7	9.6	10.0	9.3	8.4	8.1	8.2	8.6	8.7	9.1	9.8	10.5	10.5	10.8	9.8	10.6	11.1	10.4	9.9	8.9	8.4	7.9	7.2	6.3	9.2	11.1
18	4.0	2.2	0.4	0.4	0.1	1.1	1.9	4.5	7.0	9.2	9.1	9.5	10.4	9.4	5.7	4.3	7.5	7.9	8.5	7.7	7.8	7.1	6.7	6.1	5.8	10.4
19	5.3	4.7	5.1	5.2	5.0	4.8	4.3	5.6	6.2	6.8	7.5	7.5	6.0	5.3	4.4	4.7	4.2	4.3	4.8	4.4	4.1	3.4	3.3	3.0	5.0	7.5
20	3.3	3.0	2.6	2.0	2.2	2.3	2.5	3.2	4.1	4.4	5.6	5.4	5.8	5.1	5.4	5.9	5.4	4.7	4.8	4.5	3.8	3.2	2.4	1.5	3.9	5.9
21	0.4	-0.1	-1.0	-0.9	-0.8	0.1	0.4	1.3	3.3	4.4	5.6	6.6	7.2	6.9	7.7	7.8	8.1	8.5	8.1	7.6	4.8	2.4	1.9	0.5	3.8	8.5
22	1.7	1.2	1.1	1.2	0.7	0.7	1.4	2.6	5.4	8.8	10.2	11.3	12.2	13.3	13.3	13.5	13.8	14.1	13.6	13.1	11.9	10.0	8.2	8.7	8.0	14.1
23	7.9	6.5	5.1	4.3	3.4	2.7	3.0	5.2	8.5	12.3	13.6	14.0	14.4	15.0	15.1	15.6	15.4	14.9	15.1	14.3	13.0	12.0	10.6	10.1	10.5	15.6
24	9.5	8.7	8.3	7.5	6.4	5.7	5.9	7.2	8.6	10.9	12.6	14.1	15.4	15.4	15.4	15.3	15.5	14.0	13.6	13.3	12.6	11.5	11.1	10.1	11.2	15.5
25	9.2	8.4	8.3	8.2	8.1	8.5	8.7	9.3	10.5	11.3	12.6	13.3	14.3	14.9	15.4	15.1	14.4	13.6	13.6	13.5	12.9	12.5	12.2	11.6	11.7	15.4
26	10.7	10.0	9.2	8.4	7.6	7.3	6.2	5.6	5.8	7.3	9.2	11.8	14.9	17.0	17.7	17.8	17.8	17.7	17.8	17.0	15.4	12.7	11.3	11.3	12.0	17.8
27	11.3	10.8	10.2	9.6	9.0	8.6	9.3	10.3	12.8	14.9	16.4	17.1	17.0	15.9	15.4	15.2	14.5	13.7	12.7	12.6	12.0	11.5	11.3	10.3	12.6	17.1
28	9.9	9.6	9.1	8.9	8.4	6.6	7.1	9.1	10.7	11.3	12.3	12.9	13.4	13.7	13.9	14.4	14.6	14.5	14.3	13.7	12.2	9.9	9.2	8.7	11.2	14.6
29	7.8	7.2	6.7	6.2	5.9	5.8	6.3	7.0	9.2	10.5	11.3	12.0	12.4	13.7	14.4	14.2	12.6	11.1	10.3	9.5	9.3	9.3	8.7	8.4	9.6	14.4
30	7.9	7.3	6.8	6.6	6.3	6.2	7.0	7.5	8.4	8.8	9.7	8.9	8.8	8.4	9.1	9.4	10.9	11.3	9.6	9.0	8.0	7.0	6.8	6.5	8.2	11.3
31	5.7	4.4	2.6	3.0	3.6	4.1	4.8	6.7	9.1	11.2	12.8	13.0	13.2	14.0	14.6	15.0	14.8	14.8	14.3	13.0	11.7	10.2	9.1	9.0	9.8	15.0
NO.	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.7%
MEAN	6.4	5.8	5.1	4.8	4.3	4.2	4.8	6.0	7.7	9.2	10.3	11.0	11.6	12.0	12.1	12.1	12.0	11.7	11.2	10.5	9.4	8.3	7.5	7.0		
MAX	12.6	12.6	12.5	13.2	9.0	8.6	12.6	12.6	13.4	15.4	16.4	17.1	17.0	17.0	17.7	17.8	17.8	17.7	17.8	17.0	15.4	13.6	12.9	13.2		



Number of Non-Zero Readings	742		
Maximum 1-HR Average	17.8 C		
Maximum 24-HR Average	13.4 C		
Monthly Calibration	0	Operational Time	742 HRS
Standard Deviation	4.338	Operational Uptime	99.7 %
		Monthly Average	8.6 C

Lagoon Wind Speed (km/hr) – May 2022

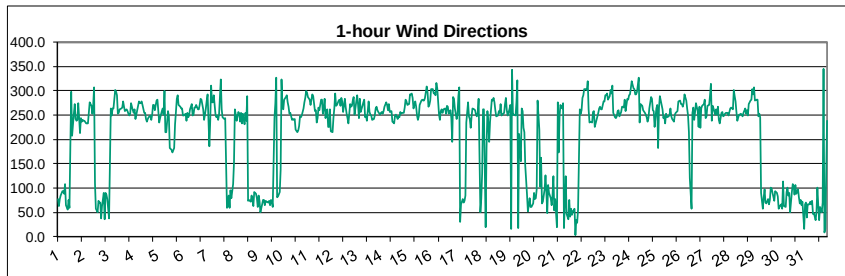
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.6	7.2	7.5	7.3	5.5	4.4	3.2	2.3	10.1	14.4	8.4	9.2	9.3	8.6	7.6	17.8	16.2	16.8	14.0	11.3	6.9	6.8	8.5	11.2	9.4	17.8
2	11.7	11.6	11.5	9.8	9.4	10.8	11.0	12.3	11.3	9.3	9.1	8.2	8.6	10.4	13.7	14.8	16.6	12.9	11.8	6.0	6.8	4.2	2.5	2.7	9.9	16.6
3	4.7	1.9	2.0	6.1	9.7	10.6	12.6	12.3	12.7	15.0	16.6	19.5	21.1	21.9	24.0	23.3	23.1	23.0	22.0	19.9	18.7	20.2	21.2	20.2	15.9	24.0
4	18.0	19.8	16.3	21.2	P	P	19.9	21.6	23.4	22.0	23.6	21.9	27.0	30.7	30.9	31.4	24.9	20.8	19.2	18.9	14.3	15.0	12.8	12.5	21.2	31.4
5	12.6	10.5	11.2	11.4	11.7	11.8	8.9	3.1	5.6	7.0	19.5	19.9	15.3	11.0	9.8	11.0	12.1	10.6	9.0	12.3	17.2	27.0	24.2	27.5	13.3	27.5
6	27.2	33.7	31.7	33.0	36.7	37.6	44.7	46.0	42.3	43.5	45.7	44.8	38.7	39.0	39.8	38.7	34.0	26.0	19.7	24.1	30.1	22.2	18.7	11.9	33.7	46.0
7	7.9	8.5	5.2	7.1	6.4	10.1	11.5	7.9	18.3	21.1	22.2	22.6	20.6	16.4	20.8	19.3	21.9	20.2	20.1	12.7	9.1	3.7	4.5	7.0	13.5	22.6
8	10.6	3.2	3.8	3.4	8.8	12.1	9.2	8.9	8.9	13.9	18.2	15.2	16.4	20.7	21.2	20.3	19.9	12.9	9.6	7.8	9.6	10.4	4.5	11.5	11.7	21.2
9	5.7	8.5	10.7	9.2	9.4	10.1	10.2	7.8	8.4	11.4	14.2	14.6	11.9	15.7	16.4	10.5	7.2	21.6	11.7	9.8	6.2	5.0	3.0	4.7	10.2	21.6
10	8.6	15.8	17.3	11.0	7.1	10.7	18.3	18.4	22.6	26.2	27.2	26.5	23.7	21.3	21.4	22.5	21.5	19.2	23.8	22.9	21.5	17.5	14.7	12.8	18.9	27.2
11	13.2	13.0	12.1	13.2	11.8	12.8	12.2	16.3	20.6	20.5	18.9	20.8	19.0	24.1	17.3	16.6	15.0	15.8	11.8	15.5	6.5	7.5	6.0	10.4	14.6	24.1
12	11.0	9.3	10.1	14.4	14.7	13.8	12.0	13.2	11.6	15.8	20.9	18.8	19.3	17.2	21.2	15.5	13.1	11.8	17.5	19.3	16.1	12.6	10.7	10.0	14.6	21.2
13	14.1	13.1	10.2	11.0	11.1	8.5	11.3	8.9	13.2	19.7	19.3	19.6	20.7	17.9	25.1	27.1	30.1	30.3	29.0	26.0	24.9	27.8	24.0	26.0	19.5	30.3
14	25.2	23.4	23.0	21.9	19.0	17.7	17.6	20.9	17.7	17.7	19.4	21.4	25.3	24.2	24.2	25.7	26.4	27.1	25.2	22.5	19.9	15.4	18.8	17.0	21.5	27.1
15	10.5	14.6	7.4	9.5	12.8	13.2	12.0	12.8	19.4	19.5	20.0	22.0	20.8	19.7	17.4	16.8	17.0	14.7	15.1	17.7	11.7	11.5	15.9	24.3	15.7	24.3
16	21.5	15.3	13.4	8.5	13.3	14.5	16.4	17.0	23.4	22.4	19.5	21.2	22.4	18.0	18.3	26.1	22.6	18.6	13.9	15.6	11.5	8.9	16.3	15.6	17.3	26.1
17	24.3	29.3	26.3	18.5	11.9	8.6	16.1	16.1	13.5	10.9	8.3	19.6	22.6	22.0	25.3	19.0	22.0	21.7	26.2	28.6	26.3	23.0	17.0	11.1	19.5	29.3
18	6.6	4.3	2.4	5.9	4.3	4.7	3.9	6.5	9.9	11.8	13.3	22.9	31.1	23.7	15.5	23.5	25.3	32.3	40.6	32.2	20.8	27.6	24.1	22.5	17.3	40.6
19	13.9	11.7	20.5	25.5	15.2	11.3	10.7	13.3	23.7	23.0	22.3	10.4	7.0	5.0	4.3	3.4	8.4	6.8	6.0	4.8	5.0	3.7	4.1	5.4	11.2	27.7
20	11.6	8.7	6.4	12.4	14.6	7.1	8.4	6.3	6.9	6.9	7.5	9.1	14.6	16.1	13.4	8.9	15.4	9.7	11.6	16.5	7.7	6.3	5.5	1.8	9.7	16.5
21	2.2	2.5	3.5	3.8	3.9	8.4	8.8	10.0	9.6	7.3	7.3	8.7	11.9	9.3	8.2	10.7	10.0	9.9	11.3	7.7	3.1	1.4	1.5	1.7	6.8	11.9
22	9.7	9.4	11.3	14.4	14.1	14.4	15.3	16.7	16.0	18.4	21.0	16.6	13.4	12.8	12.1	14.5	18.3	19.8	20.9	17.8	14.6	9.1	6.6	9.4	14.4	21.0
23	11.0	12.0	12.5	12.5	13.8	16.5	18.1	14.4	14.6	21.0	22.3	16.4	16.1	17.5	15.5	17.3	18.7	16.0	17.2	15.2	12.4	14.0	11.0	11.6	15.3	22.3
24	11.2	11.7	10.7	15.2	13.5	13.9	11.9	13.1	13.0	8.6	13.5	18.0	25.9	26.8	25.5	19.4	22.5	24.5	16.9	17.1	12.2	10.4	10.4	7.6	15.6	26.8
25	8.0	8.5	9.1	8.6	5.7	9.9	11.8	18.5	15.2	17.2	19.9	22.9	25.8	28.2	26.6	27.1	27.3	31.7	28.9	22.9	22.8	19.6	21.5	15.2	18.9	31.7
26	9.0	9.9	9.6	11.6	13.7	12.2	13.0	13.8	13.9	11.8	9.7	5.0	11.8	18.8	18.6	22.2	24.3	17.3	16.2	12.5	8.6	6.6	6.5	8.8	12.7	24.3
27	9.8	10.0	7.7	9.6	10.4	11.4	10.9	12.5	11.2	23.6	27.0	28.5	25.7	26.0	27.2	21.0	17.7	19.0	24.3	27.7	25.8	24.5	29.6	22.5	19.3	29.6
28	22.8	22.9	18.2	22.9	16.7	13.2	13.6	18.7	23.6	18.3	18.2	22.0	23.4	22.2	21.7	19.4	20.9	20.4	19.7	18.2	12.1	8.5	9.4	12.7	18.3	23.6
29	11.9	13.2	12.2	11.1	7.4	7.5	6.6	5.7	8.5	10.6	11.2	12.0	13.5	14.3	14.5	15.5	15.0	12.9	9.8	7.4	10.2	16.6	16.3	16.3	11.7	16.6
30	12.2	9.7	7.4	9.0	7.8	5.0	7.6	9.9	10.7	13.5	20.0	14.6	9.1	8.8	11.8	11.3	11.3	9.8	7.0	6.4	4.3	4.3	6.7	9.1	9.5	20.0
31	7.0	3.5	2.8	3.4	3.8	5.5	6.9	6.7	11.2	12.3	11.0	8.0	7.7	8.9	8.4	10.0	8.6	9.9	4.9	2.2	2.0	1.7	1.5	2.8	6.3	12.3
NO.	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.7%
MEAN	12.4	12.2	11.4	12.3	11.5	11.6	12.7	13.3	15.3	16.6	17.9	18.1	18.7	18.6	18.6	18.7	18.9	18.2	17.3	16.1	13.5	12.7	12.2	12.4		
MAX	27.2	33.7	31.7	33.0	36.7	37.6	44.7	46.0	42.3	43.5	45.7	44.8	38.7	39.0	39.8	38.7	34.0	32.3	40.6	32.2	30.1	27.8	29.6	27.5		



Number of Non-Zero Readings	742		
Maximum 1-HR Average	46.0 KM/HR		
Maximum 24-HR Average	33.7 KM/HR		
Monthly Calibration	0	Operational Time	742 HRS
Standard Deviation	7.713	Operational Uptime	99.7 %
		Monthly Average	15.1 KM/HR

Lagoon Wind Direction (°) – May 2022

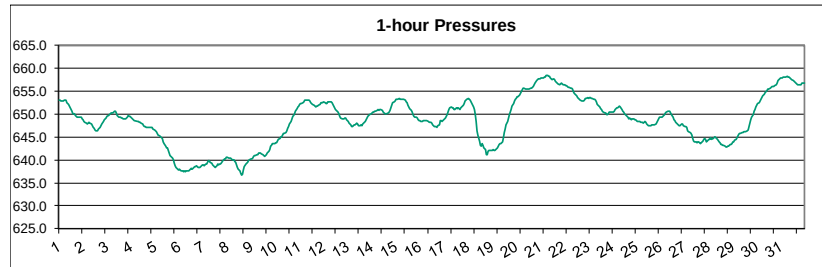
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	77.9	63.7	77.2	85.1	93.6	93.6	89.0	108.4	64.6	55.2	75.4	59.5	184.4	298.4	208.5	253.6	272.1	242.8	237.7	240.5	274.0	212.4	244.4	236.7	225.0	298.4
2	239.4	238.6	238.4	232.1	232.8	233.5	254.5	275.8	268.7	252.8	270.4	306.8	110.7	57.6	51.0	74.6	70.2	70.0	37.8	62.8	90.4	36.7	90.5	87.0	286.3	306.8
3	78.2	36.9	151.1	263.5	249.1	263.5	263.5	301.7	297.5	290.4	252.3	255.0	262.4	264.1	265.1	279.0	267.4	259.0	262.6	258.1	252.9	248.9	253.3	274.8	264.9	301.7
4	259.4	255.5	261.7	242.8	P	P	278.4	275.4	274.0	277.5	271.5	254.7	254.4	242.1	236.7	242.8	245.0	248.9	240.1	250.3	271.3	271.7	259.9	279.6	256.9	279.6
5	282.1	258.2	234.3	244.2	257.7	264.2	251.0	300.1	214.1	214.7	257.9	247.1	182.7	180.4	178.0	172.5	182.3	231.7	255.9	283.9	290.4	270.3	267.1	263.4	247.4	300.1
6	263.9	250.0	249.7	252.0	238.0	255.4	245.4	249.3	261.3	272.6	248.4	250.4	264.7	265.6	271.3	262.2	261.7	270.7	283.8	281.2	261.8	240.3	251.9	263.1	258.1	283.8
7	280.7	293.0	185.9	238.2	310.2	277.2	276.5	290.3	250.6	244.9	248.4	239.5	251.1	323.9	262.6	245.7	243.5	242.4	243.0	59.4	63.5	84.1	59.3	94.7	257.5	323.9
8	79.2	108.9	153.7	262.4	250.3	238.7	255.9	252.6	236.3	255.4	232.6	252.9	231.9	255.0	237.8	289.9	73.6	75.8	72.2	84.9	73.0	63.7	92.7	88.2	236.1	289.9
9	79.4	60.6	84.8	74.2	51.1	66.5	76.5	76.4	64.7	74.4	71.4	69.3	73.2	64.6	75.1	73.0	61.7	243.2	273.7	327.6	81.6	82.2	91.7	137.3	69.2	327.6
10	322.5	271.1	261.2	282.3	288.0	291.0	275.9	267.8	252.2	253.9	240.4	241.8	240.1	242.1	220.4	214.8	217.9	228.0	248.0	245.0	248.8	263.1	275.6	285.9	251.1	322.5
11	299.5	296.8	287.7	281.4	270.7	280.9	292.8	288.3	257.8	260.5	235.6	244.0	265.3	259.6	281.0	282.3	253.7	263.4	283.2	243.5	262.5	225.7	225.0	261.3	266.9	299.5
12	217.2	214.6	244.2	263.7	294.6	269.6	270.6	279.4	281.7	269.0	284.8	278.5	255.7	283.6	265.9	253.6	244.5	232.2	272.8	268.1	269.7	280.6	287.5	250.9	266.4	294.6
13	278.5	290.8	270.2	243.8	283.8	256.1	269.6	277.1	280.9	246.3	248.7	238.8	277.8	257.1	251.5	249.0	239.3	241.7	250.0	263.2	266.7	259.6	256.8	251.4	257.2	290.8
14	255.1	257.0	253.5	257.9	266.8	276.8	270.8	260.2	273.1	257.1	258.7	237.1	234.6	233.4	249.7	250.5	242.6	247.0	245.3	255.8	253.3	253.8	254.4	265.9	253.4	276.8
15	282.2	278.2	270.2	273.5	293.4	292.9	294.5	286.2	262.8	277.7	266.5	249.1	241.0	247.3	270.6	279.8	282.3	279.3	279.1	286.0	309.6	296.5	267.9	270.3	274.0	309.6
16	279.6	302.6	303.3	294.8	296.1	291.4	315.6	304.9	251.1	239.6	258.2	262.7	255.2	262.6	262.9	252.7	268.7	268.0	253.4	259.9	244.1	194.1	287.4	283.6	269.8	315.6
17	264.5	241.8	250.4	288.9	306.2	31.0	66.5	76.9	69.5	73.2	84.5	235.2	276.0	247.7	242.3	223.9	247.4	263.2	261.3	259.4	250.9	246.9	255.0	283.8	257.2	306.2
18	50.3	77.4	129.2	261.5	262.5	20.0	182.6	258.1	234.5	195.8	237.1	281.2	279.1	286.1	277.2	260.2	248.2	249.6	258.7	255.3	272.1	248.6	252.4	254.7	259.2	286.1
19	273.6	285.5	260.7	248.4	261.6	270.7	16.3	343.4	250.3	250.2	249.2	276.9	321.2	17.2	211.2	155.8	263.7	257.6	224.2	215.6	146.7	85.7	51.5	64.2	264.6	343.4
20	80.1	60.4	60.5	68.7	90.6	76.9	78.7	97.1	279.2	219.4	103.0	163.0	67.5	71.8	98.0	125.9	91.4	48.6	106.1	89.8	79.8	63.9	84.7	125.2	86.5	279.2
21	54.6	77.3	18.8	276.4	173.4	250.0	271.6	263.7	274.3	17.9	70.1	124.7	46.8	35.6	75.4	42.1	57.0	44.6	52.0	57.6	3.7	33.4	28.9	56.4	37.5	276.4
22	262.7	253.5	259.7	285.5	290.0	303.4	304.0	301.6	319.9	262.2	235.5	236.5	235.1	256.7	257.6	226.3	233.8	247.6	254.6	263.8	268.0	262.6	262.4	278.8	263.9	319.9
23	278.6	290.4	290.7	294.4	282.5	289.1	301.3	294.4	311.2	254.7	245.3	244.0	248.2	258.2	260.6	248.0	257.0	268.1	264.8	281.7	258.3	282.8	282.5		271.0	311.2
24	290.5	293.0	305.9	319.4	305.9	304.0	292.4	292.8	297.4	327.1	234.3	273.1	271.5	268.8	259.9	254.0	250.2	245.3	236.1	243.2	264.3	287.0	284.3	260.2	272.8	327.1
25	257.8	224.9	263.2	270.5	181.9	265.0	289.6	280.5	262.1	242.9	247.6	233.6	253.7	245.4	246.9	250.7	263.9	247.4	241.4	237.1	250.7	254.8	255.6	258.5	251.4	289.6
26	278.8	279.2	272.4	273.5	267.1	275.1	292.7	279.8	264.4	249.7	215.4	121.7	57.7	255.1	266.2	239.4	257.0	274.6	258.9	226.0	267.6	223.0	264.5	268.6	261.8	292.7
27	273.6	282.2	243.6	247.8	268.7	270.2	291.6	315.2	237.9	268.5	264.4	250.9	262.2	251.8	267.1	240.3	232.6	254.0	257.0	247.5	249.4	252.8	253.8	254.8	257.6	315.2
28	250.1	256.5	263.2	266.1	262.5	301.3	289.2	278.7	256.9	238.5	251.7	250.4	252.0	250.4	248.0	254.4	264.5	253.1	260.8	249.7	273.0	279.4	281.3	303.7	260.9	303.7
29	292.8	307.0	280.2	281.7	281.2	248.3	252.0	245.9	89.6	56.9	80.6	96.6	69.5	69.2	77.9	66.8	75.9	100.4	99.0	89.7	74.3	94.1	92.5	90.0	73.8	307.0
30	83.7	57.5	64.0	65.9	57.6	114.5	63.1	60.3	92.3	100.7	84.5	89.6	49.7	91.7	109.0	104.1	86.7	106.9	88.5	97.4	81.5	68.3	76.1	65.5	82.9	114.5
31	72.8	15.3	66.0	69.4	40.2	65.8	65.9	71.3	66.1	74.3	46.4	48.0	34.1	52.4	100.8	65.1	34.4	61.9	50.7	69.7	345.2	9.0	16.5	237.8	57.9	345.2
NO.	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.7%
MEAN	214.2	209.0	211.5	235.8	233.6	224.6	227.0	243.7	228.9	212.1	205.5	213.3	203.5	206.3	212.5	207.5	202.9	211.8	214.7	210.9	213.6	192.0	200.2	215.4		
MAX	322.5	307.0	305.9	319.4	310.2	304.0	315.6	343.4	319.9	327.1	284.8	306.8	321.2	323.9	281.0	289.9	282.3	279.3	283.8	327.6	345.2	296.5	287.5	303.7		



Number of Non-Zero Readings	742
Maximum 1-HR Average	345 degrees
Maximum 24-HR Average	286 degrees
Monthly Calibration	0
Standard Deviation	84.91
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	214.6 degrees

Lagoon Pressure (mmHg) – May 2022

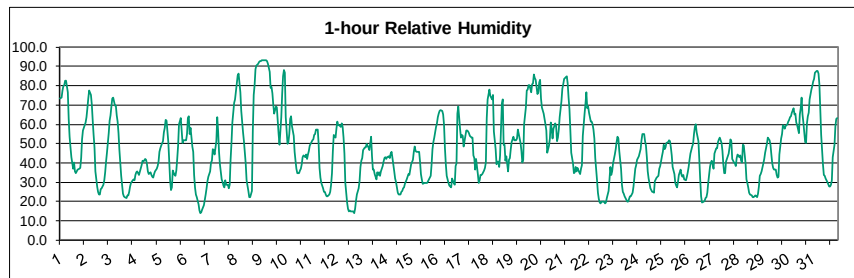
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	653.0	653.0	652.9	652.9	652.9	653.0	653.1	653.0	652.5	652.2	651.8	651.3	650.9	650.6	650.1	650.0	649.7	649.6	649.4	649.3	649.3	649.4	649.3	649.0	651.2	653.1
2	648.8	648.5	648.2	648.0	647.9	648.1	648.1	647.9	647.8	647.4	647.1	646.9	646.6	646.3	646.6	646.9	647.1	647.4	647.9	648.4	648.8	649.0	649.1	649.1	647.7	649.1
3	649.5	649.7	649.9	650.1	650.2	650.3	650.3	650.6	650.5	650.2	649.7	649.5	649.4	649.3	649.2	649.1	649.0	649.0	648.9	649.2	649.4	649.6	649.6	649.5	649.7	650.6
4	649.2	649.0	648.8	648.6	P	P	648.4	648.4	648.2	648.1	648.0	647.8	647.5	647.3	647.2	647.2	647.1	647.1	647.2	647.2	647.1	647.1	646.8	646.6	647.7	649.2
5	646.3	646.1	645.8	645.5	645.2	645.1	644.9	644.6	644.0	643.5	643.0	642.7	642.7	642.1	641.6	641.0	640.6	640.3	640.1	639.3	638.7	638.3	637.9	637.9	642.4	646.3
6	637.9	637.7	637.7	637.6	637.4	637.5	637.4	637.6	637.7	637.7	637.8	637.9	638.2	638.1	638.2	638.5	638.5	638.7	638.6	638.4	638.3	638.6	638.8	638.9	638.1	638.9
7	639.0	638.8	639.1	639.2	639.5	639.9	639.8	639.5	639.3	639.0	638.7	638.6	638.4	638.8	639.1	639.0	639.1	639.1	639.3	639.9	640.1	640.2	640.3	640.6	639.3	640.6
8	640.6	640.5	640.4	640.4	640.3	640.0	639.9	639.7	639.4	639.0	638.4	638.1	637.6	637.1	636.8	636.9	637.8	638.6	639.0	639.3	639.4	639.8	640.1	640.2	639.1	640.6
9	640.2	640.4	640.7	640.9	640.9	641.0	641.2	641.4	641.5	641.4	641.3	641.2	640.9	640.7	641.0	641.2	641.5	641.9	642.2	642.9	643.2	643.6	643.6	643.6	641.6	643.6
10	643.7	643.7	644.1	644.4	644.8	645.1	645.1	645.5	645.7	645.8	646.0	646.3	646.9	647.3	647.8	648.3	648.9	649.5	649.7	650.1	650.7	651.2	651.5	651.7	647.2	651.7
11	652.0	652.2	652.3	652.5	652.7	653.0	653.1	653.0	653.1	653.0	652.9	652.6	652.3	652.1	651.9	651.7	651.6	651.7	651.8	651.9	652.2	652.4	652.4	652.5	652.4	653.1
12	652.6	652.5	652.3	652.3	652.6	652.8	652.7	652.6	652.5	652.1	651.7	651.4	651.0	650.7	650.4	650.1	649.6	649.2	648.9	648.9	649.0	649.2	649.1	648.8	650.9	652.8
13	648.4	648.0	647.8	647.6	647.4	647.3	647.7	647.7	647.9	648.0	647.7	647.4	647.4	647.7	647.5	647.8	648.0	648.4	648.8	649.1	649.5	649.7	649.9	650.1	648.2	650.1
14	650.3	650.5	650.5	650.6	650.7	650.7	650.9	650.8	650.9	651.0	650.7	650.5	650.2	650.0	650.0	650.0	650.2	650.5	650.8	651.3	651.9	652.4	652.7	652.8	650.9	652.8
15	653.2	653.3	653.2	653.3	653.3	653.3	653.3	653.3	653.2	653.0	652.7	652.4	652.0	651.5	651.2	650.9	650.3	650.0	649.5	649.4	649.3	649.1	648.8	648.5	651.6	653.3
16	648.5	648.5	648.4	648.6	648.6	648.6	648.6	648.5	648.4	648.2	648.2	648.2	648.0	647.7	647.3	647.3	647.3	647.2	647.5	647.7	648.6	648.5	648.4	648.5	648.1	648.6
17	648.7	649.1	649.4	649.9	650.5	651.0	651.3	651.5	651.4	651.3	651.0	651.0	651.3	651.1	651.4	651.2	651.0	651.3	651.7	651.9	652.3	652.8	653.1	653.2	651.2	653.2
18	648.4	653.2	653.0	652.7	652.3	651.5	651.0	649.8	648.4	646.4	645.4	644.1	643.2	642.9	643.5	643.3	642.7	642.3	641.1	641.2	641.8	642.1	642.0	642.0	646.2	653.4
19	642.1	642.2	642.0	642.1	642.4	642.6	643.0	643.4	643.5	643.6	643.9	644.9	646.0	646.8	647.6	648.4	649.1	649.9	650.4	651.0	651.7	652.4	652.9	653.2	646.5	653.2
20	653.5	653.7	653.9	654.2	654.5	654.8	655.2	655.6	655.5	655.4	655.4	655.4	655.5	655.5	655.6	655.6	655.9	656.0	656.3	656.7	657.3	657.6	657.7	657.8	655.6	657.8
21	657.8	657.8	657.9	657.9	658.0	658.1	658.4	658.4	658.2	658.2	657.9	657.6	657.5	657.6	657.4	657.2	656.9	656.7	656.5	656.4	656.5	656.7	656.6	656.4	657.4	658.4
22	656.4	656.2	656.1	656.0	655.9	655.9	655.7	655.7	655.4	654.9	654.6	654.3	654.0	653.5	653.3	653.2	653.0	652.9	652.8	652.9	653.1	653.4	653.5	653.5	654.4	656.4
23	653.4	653.6	653.5	653.5	653.4	653.3	653.1	652.9	652.7	652.1	651.7	651.5	651.2	650.9	650.6	650.4	650.3	650.2	649.9	649.9	650.1	650.4	650.4	650.4	651.6	653.6
24	650.4	650.4	650.7	651.0	651.3	651.4	651.5	651.7	651.5	651.1	650.6	650.5	650.1	649.9	649.8	649.3	648.9	649.1	648.9	648.8	648.9	649.0	648.8	648.7	650.1	651.7
25	648.6	648.4	648.4	648.3	648.2	648.1	648.3	648.1	648.3	648.2	647.8	647.7	647.5	647.4	647.4	647.6	647.7	647.7	647.6	647.9	648.3	648.6	649.0	649.3	648.1	649.3
26	649.3	649.2	649.5	649.7	649.9	650.2	650.4	650.6	650.7	650.6	650.3	649.8	649.2	648.8	648.5	648.2	648.1	647.9	647.5	647.5	647.6	647.9	647.8	647.5	649.0	650.7
27	647.3	647.3	647.0	646.4	646.1	645.9	645.8	645.3	644.7	644.1	643.9	643.9	643.8	643.9	643.8	643.5	643.9	644.1	644.4	644.7	644.5	644.0	644.3	644.3	644.9	647.3
28	644.5	644.5	644.8	644.4	644.7	644.9	645.0	644.9	644.6	644.4	644.0	643.7	643.5	643.3	643.2	643.1	643.0	642.8	642.8	642.9	643.0	643.3	643.4	643.6	643.9	645.0
29	643.9	644.0	644.2	644.5	644.8	645.3	645.5	645.7	645.8	646.0	646.0	646.1	646.2	646.2	646.3	646.5	647.2	648.0	648.7	649.4	649.9	650.6	651.1	651.5	646.8	651.5
30	651.9	652.2	652.4	652.9	653.2	653.6	653.9	654.3	654.7	654.9	655.1	655.4	655.5	655.7	655.7	656.0	656.1	656.1	656.2	656.4	656.7	657.2	657.5	657.7	655.1	657.7
31	657.8	657.8	658.0	658.0	658.1	658.1	658.1	658.1	657.9	657.6	657.4	657.3	657.1	656.9	656.7	656.6	656.6	656.4	656.4	656.4	656.7	656.7	656.7	656.8	657.3	658.1
NO.	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.7%
MEAN	648.8	648.8	648.8	648.8	648.9	649.0	649.1	648.9	648.7	648.7	648.4	648.3	648.1	648.0	648.0	647.9	647.9	648.0	648.1	648.2	648.5	648.7	648.8	648.8	648.8	648.8
MAX	657.8	657.8	658.0	658.0	658.1	658.1	658.4	658.4	658.2	658.2	657.9	657.6	657.5	657.6	657.4	657.2	656.9	656.7	656.5	656.7	657.3	657.6	657.7	657.8	657.3	658.1



Number of Non-Zero Readings	742	
Maximum 1-HR Average	658 MMHg	
Maximum 24-HR Average	657 MMHg	
Monthly Calibration	0	Operational Time
Standard Deviation	5.244	Operational Uptime
		Monthly Average
		742 HRS
		99.7 %
		648.5 MMHg

Lagoon Relative Humidity (%) – May 2022

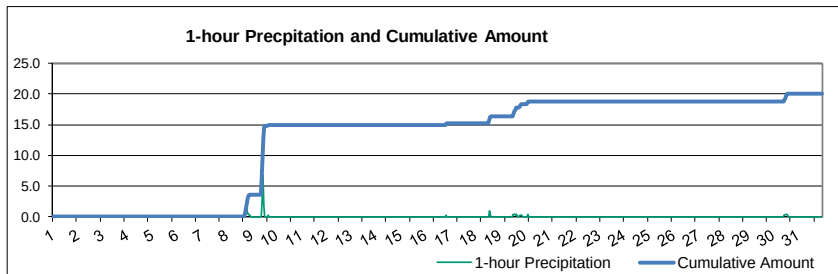
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	73.3	74.0	77.5	79.9	80.2	82.4	82.6	76.4	62.6	53.5	47.9	43.1	37.2	40.2	35.5	34.6	35.6	36.3	36.8	37.6	42.7	52.1	56.7	58.2	55.7	82.6
2	61.1	63.8	68.3	73.3	77.4	75.1	69.9	62.0	54.5	47.9	35.7	28.0	25.2	23.5	23.9	26.2	26.7	28.9	30.8	35.3	40.9	45.1	55.3	61.7	47.5	77.4
3	64.4	69.0	73.5	73.8	69.6	69.6	64.6	61.6	55.3	46.6	33.3	28.8	24.1	22.9	22.1	21.9	23.0	23.3	24.9	27.5	29.6	31.1	31.4	31.0	42.6	73.8
4	33.9	35.1	35.8	33.9	P	P	39.0	40.9	40.9	41.8	41.6	39.1	35.7	34.4	35.1	33.8	32.9	32.5	34.1	35.5	36.9	38.4	40.8	45.6	37.2	45.6
5	47.5	48.9	51.4	55.7	58.1	62.5	62.0	50.7	40.9	31.1	25.9	27.1	36.2	33.8	33.2	36.2	41.9	49.0	60.2	63.0	56.6	50.4	51.7	51.6	46.9	63.0
6	51.8	55.0	63.4	64.1	55.0	58.1	48.5	45.8	33.9	27.4	23.6	22.2	18.4	15.3	13.8	14.5	15.9	18.3	20.9	23.5	26.8	30.7	32.8	35.6	34.0	64.1
7	40.2	41.1	47.1	46.6	44.5	51.3	63.9	56.4	45.8	39.5	31.5	30.1	28.4	27.3	30.9	28.8	28.9	27.0	28.6	41.8	50.5	60.8	71.2	73.0	43.1	73.0
8	77.0	81.0	85.2	86.1	76.4	66.9	61.6	55.9	51.1	39.7	30.8	28.5	25.6	22.1	22.3	25.3	56.8	75.0	80.2	88.5	90.5	91.5	92.3	92.7	62.6	92.7
9	92.8	93.0	93.1	93.1	93.1	93.0	92.7	91.5	87.3	78.9	79.1	76.0	70.0	65.6	69.0	68.7	61.9	55.1	49.3	63.5	75.8	84.7	88.1	86.8	79.3	93.1
10	63.5	50.0	50.6	54.9	62.7	64.1	58.9	53.8	45.9	40.9	37.2	34.9	34.5	36.1	37.2	39.4	42.9	44.1	43.1	44.6	42.1	44.2	46.1	49.0	46.7	64.1
11	50.8	51.9	52.2	54.5	55.1	57.1	57.2	49.8	37.7	32.2	29.7	26.7	25.2	25.0	23.5	22.7	22.8	23.8	25.2	28.6	34.8	46.0	54.3	53.2	39.2	57.2
12	57.7	61.5	59.5	59.4	58.8	60.4	58.6	53.1	44.8	29.8	19.6	16.5	14.9	15.3	15.1	15.0	14.7	13.9	16.4	20.5	23.5	27.0	30.5	38.0	34.4	61.5
13	41.0	42.3	46.7	48.2	48.0	49.7	49.0	47.8	46.6	53.4	43.5	36.3	36.7	34.3	31.6	35.2	33.8	35.0	33.2	35.5	38.2	40.7	42.7	42.8	41.3	53.4
14	42.2	42.9	43.6	42.7	45.0	45.9	42.6	35.4	31.8	29.9	27.2	24.6	23.7	23.9	24.9	25.3	26.8	27.5	29.4	31.6	32.6	34.1	34.0	36.4	33.5	45.9
15	39.4	41.5	45.6	48.4	46.3	45.5	45.5	45.7	40.7	34.3	31.5	29.0	29.5	29.8	29.8	29.5	30.4	31.3	33.4	39.5	47.2	50.7	53.1	58.6	39.8	58.6
16	60.2	63.9	65.3	67.0	67.2	66.7	65.2	59.5	47.4	39.3	33.2	29.7	28.4	27.9	27.4	31.7	29.8	28.5	38.2	39.8	65.3	69.1	57.9	53.1	48.4	69.1
17	54.3	53.9	48.7	51.3	56.7	56.6	56.1	55.3	54.1	53.2	53.1	44.1	42.5	36.4	42.1	34.4	29.4	31.1	33.6	34.0	34.4	36.0	37.4	40.1	44.5	56.7
18	63.3	72.9	77.8	74.8	73.7	73.1	75.1	56.2	47.0	39.4	40.8	40.7	38.0	44.0	70.7	72.9	49.5	49.3	41.2	43.4	35.8	41.4	42.6	47.1	54.6	77.8
19	50.8	53.6	51.8	51.6	51.8	52.8	57.3	52.5	50.2	46.1	40.0	41.7	60.1	68.6	77.5	77.8	80.3	80.3	76.4	80.8	81.1	85.9	84.1	83.0	64.0	85.9
20	75.8	76.6	81.9	82.8	73.5	68.9	65.6	62.7	60.2	56.8	45.4	48.9	52.5	61.1	57.6	52.5	57.5	60.5	59.0	51.1	53.0	57.4	63.5	71.8	62.4	82.8
21	78.2	80.9	83.5	83.9	84.7	81.3	73.7	67.7	56.9	45.5	39.9	34.8	35.0	38.0	35.5	37.6	35.1	34.1	37.2	38.6	53.8	65.6	70.5	76.4	57.0	84.7
22	68.3	69.3	66.0	61.5	61.6	60.2	57.2	52.6	42.3	31.2	24.3	21.3	19.5	19.0	20.1	20.1	20.0	19.1	19.4	21.6	25.3	31.2	37.8	33.8	37.6	69.3
23	35.8	39.6	44.1	46.9	50.8	53.8	52.5	46.0	37.1	28.9	25.2	24.2	22.6	20.8	20.0	20.1	21.2	22.7	22.9	24.7	27.7	32.4	36.8	38.7	33.1	53.8
24	41.7	43.6	45.1	47.2	51.6	54.7	54.8	51.2	49.0	43.1	35.5	31.7	26.7	25.9	24.9	24.8	24.6	30.6	32.4	32.6	33.3	37.0	38.5	43.5	38.5	54.8
25	45.9	49.3	47.3	47.9	50.3	50.6	51.8	51.4	48.0	44.0	37.7	34.1	29.5	28.1	27.2	30.2	33.5	36.3	33.7	33.0	33.8	31.6	30.9	32.6	39.1	51.8
26	35.0	37.8	41.8	44.8	48.3	49.9	55.1	58.8	60.0	56.1	51.3	41.4	31.5	22.6	19.3	19.8	20.4	21.9	22.4	24.7	29.6	37.8	40.3	41.1	38.0	60.0
27	39.1	37.1	44.9	47.7	47.4	50.7	52.1	53.2	50.4	46.0	39.3	34.7	34.7	40.6	43.6	44.8	47.9	52.2	51.4	42.3	40.2	39.9	38.2	42.4	44.2	53.2
28	44.5	43.2	43.9	41.2	40.2	49.5	48.8	39.7	31.3	29.7	27.3	24.7	23.6	23.0	22.3	22.1	22.5	23.0	22.5	24.3	27.6	33.3	34.3	35.4	32.4	49.5
29	39.7	42.0	45.3	47.5	49.9	53.0	51.9	49.5	44.5	39.8	37.6	36.6	36.6	33.7	32.5	32.7	44.4	52.6	55.0	59.6	58.9	57.9	59.1	59.9	46.7	59.9
30	61.4	62.4	63.7	64.0	66.1	68.4	65.3	65.3	61.1	59.4	55.5	65.2	68.1	73.6	65.1	60.8	50.9	50.2	60.6	63.9	66.2	72.8	77.9	80.0	64.5	80.0
31	82.1	83.6	86.7	87.8	87.4	86.1	80.7	67.8	54.7	39.4	33.5	33.2	32.1	31.0	30.3	27.6	27.8	28.7	31.2	43.0	49.6	58.9	62.9	63.4	54.6	87.8
NO.	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.7%
MEAN	55.3	56.8	59.1	60.1	61.1	61.9	60.0	55.4	48.8	42.7	37.4	34.8	33.8	33.7	34.3	34.4	35.1	36.8	38.2	41.1	44.7	48.9	51.4	53.4		
MAX	92.8	93.0	93.1	93.1	93.1	93.0	92.7	91.5	87.3	78.9	79.1	76.0	70.0	73.6	77.5	77.8	80.3	80.3	80.2	88.5	90.5	91.5	92.3	92.7		



Number of Non-Zero Readings	742
Maximum 1-HR Average	93.1 %
Maximum 24-HR Average	79.3 %
Monthly Calibration	0
Standard Deviation	17.97
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	46.6 %

Lagoon Precipitation (mm) – May 2022

Day	HOUR																								MEAN	MAX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0

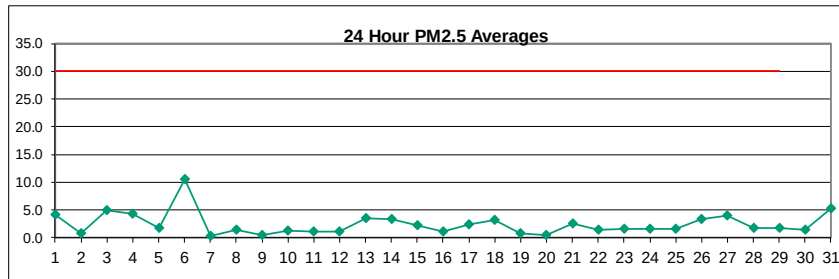


Number of Non-Zero Readings	24
Maximum 1-HR Average	6.8 MM
Maximum 24-HR Average	0.5 MM
Monthly Calibration	0
Standard Deviation	0.289
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	0.03 MM

Windridge PM_{2.5} (µg/m³) – May 2022

Day	HOUR																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	3.0	5.0	7.0	5.0	7.0	5.0	3.0	6.0	7.0	12.0	19.0	12.0	6.0	2.0	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	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	2.0	1.0	1.0	0.0	0.0	3.0	2.0	2.0	2.0
3	0.0	1.0	2.0	3.0	2.0	6.0	5.0	3.0	0.0	4.0	7.0	6.0	6.0	8.0	7.0	6.0	5.0	5.0	6.0	10.0	7.0	6.0	10.0	5.0
4	9.0	15.0	3.0	2.0	4.0	4.0	1.0	2.0	3.0	2.0	2.0	7.0	5.0	6.0	4.0	6.0	4.0	3.0	5.0	10.0	6.0	1.0	1.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.0	8.0	4.0	2.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
6	4.0	3.0	3.0	6.0	3.0	2.0	10.0	9.0	37.0	63.0	20.0	15.0	13.0	16.0	18.0	7.0	4.0	3.0	1.0	0.0	5.0	4.0	5.0	4.0
7	2.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
8	2.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	5.0	0.0	0.0	0.0	2.0	4.0	5.0	2.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	2.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	2.0	5.0	4.0	1.0	1.0	0.0	0.0	0.0	3.0	2.0	3.0	4.0	3.0	1.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	0.0	0.0	3.0	4.0	1.0	0.0	1.0	5.0	4.0	2.0	1.0	0.0	1.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	3.0	2.0	3.0	2.0	0.0	0.0	0.0	1.0	4.0	5.0	5.0	1.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	2.0	2.0	0.0	9.0	8.0	7.0	4.0	5.0	6.0	6.0	5.0	4.0	8.0	6.0	5.0
14	8.0	13.0	9.0	5.0	3.0	1.0	0.0	1.0	2.0	1.0	2.0	1.0	0.0	0.0	1.0	3.0	3.0	3.0	3.0	3.0	5.0	3.0	7.0	4.0
15	2.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	6.0	5.0	0.0	3.0	6.0	5.0	8.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	1.0
16	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	1.0	7.0	5.0	0.0	0.0	1.0	4.0	1.0	0.0	0.0
17	8.0	6.0	6.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	1.0	4.0	2.0	1.0	2.0	1.0	6.0	6.0	4.0	2.0	0.0
18	3.0	3.0	3.0	0.0	0.0	1.0	5.0	3.0	1.0	0.0	0.0	5.0	8.0	2.0	6.0	10.0	7.0	5.0	4.0	2.0	1.0	4.0	3.0	0.0
19	0.0	0.0	3.0	4.0	1.0	0.0	0.0	0.0	2.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
20	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	2.0	2.0
21	2.0	1.0	2.0	1.0	0.0	2.0	7.0	8.0	5.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	8.0	9.0	5.0	2.0
22	1.0	1.0	2.0	2.0	1.0	2.0	3.0	3.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	2.0	1.0	0.0	4.0	4.0	5.0	2.0	0.0	0.0
23	0.0	0.0	1.0	1.0	0.0	2.0	0.0	0.0	0.0	5.0	5.0	3.0	2.0	6.0	2.0	0.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
24	0.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	1.0	3.0	6.0	7.0	5.0	3.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	1.0	0.0	3.0	5.0	3.0	3.0	3.0	2.0	3.0	1.0	1.0	3.0	3.0	4.0
26	3.0	1.0	0.0	0.0	2.0	4.0	1.0	2.0	2.0	2.0	9.0	14.0	8.0	6.0	6.0	4.0	6.0	5.0	3.0	2.0	0.0	0.0	0.0	1.0
27	9.0	8.0	4.0	2.0	2.0	1.0	1.0	1.0	3.0	4.0	7.0	7.0	3.0	0.0	1.0	0.0	0.0	0.0	2.0	9.0	8.0	6.0	11.0	6.0
28	3.0	4.0	5.0	3.0	2.0	2.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4.0	17.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	9.0	6.0	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	2.0	0.0	0.0	1.0	1.0	0.0	0.0
30	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	3.0
31	3.0	2.0	1.0	2.0	2.0	7.0	6.0	12.0	6.0	0.0	0.0	0.0	14.0	7.0	1.0	11.0	5.0	4.0	5.0	7.0	8.0	5.0	10.0	7.0

NO.	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	743	100.0%
MEAN	2.0	2.2	2.4	1.6	1.2	1.5	1.7	2.4	3.1	3.8	3.1	3.3	3.2	3.2	2.8	2.7	2.2	1.9	2.1	3.0	2.8	2.4	2.5	1.6	7.5	
MAX	9.0	15.0	21.0	9.0	7.0	7.0	10.0	12.0	37.0	63.0	20.0	15.0	14.0	16.0	18.0	11.0	7.0	6.0	6.0	17.0	8.0	9.0	11.0	7.0	17.4	70.0



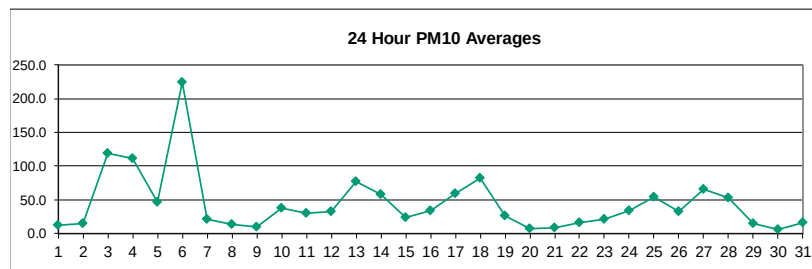
Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	436		
Maximum 1-HR Average	63.0 UG/M3		
Maximum 24-HR Average	10.6 UG/M3		
Monthly Calibration	1	Operational Time	744 HRS
Standard Deviation	4.1	Operational Uptime	100.0 %
		Monthly Average	2.4 UG/M3

Windridge PM₁₀ (µg/m³) – May 2022

Day	HOUR																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	17.0	13.0	13.0	16.0	19.0	17.0	24.0	21.0	18.0	9.0	7.0	5.0	7.0	6.0	3.0	31.0	31.0	6.0	4.0	6.0	5.0	4.0	2.0	1.0
2	3.0	4.0	11.0	7.0	6.0	7.0	8.0	48.0	54.0	39.0	28.0	11.0	13.0	9.0	9.0	9.0	18.0	11.0	8.0	11.0	18.0	15.0	10.0	13.0
3	24.0	15.0	6.0	9.0	10.0	32.0	78.0	31.0	59.0	150.0	101.0	97.0	179.0	164.0	221.0	251.0	158.0	120.0	148.0	184.0	108.0	229.0	326.0	152.0
4	180.0	210.0	62.0	84.0	83.0	234.0	122.0	134.0	202.0	131.0	101.0	96.0	117.0	199.0	83.0	96.0	84.0	87.0	59.0	76.0	56.0	95.0	74.0	6.0
5	5.0	5.0	5.0	3.0	10.0	10.0	47.0	78.0	65.0	23.0	137.0	150.0	34.0	7.0	19.0	4.0	5.0	28.0	34.0	47.0	47.0	151.0	127.0	80.0
6	98.0	77.0	121.0	134.0	49.0	235.0	337.0	371.0	485.0	485.0	454.0	278.0	321.0	485.0	485.0	209.0	117.0	65.0	58.0	65.0	147.0	79.0	155.0	59.0
7	4.0	5.0	9.0	5.0	1.0	3.0	33.0	19.0	53.0	54.0	74.0	34.0	37.0	3.0	51.0	35.0	22.0	10.0	22.0	9.0	11.0	6.0	5.0	9.0
8	11.0	7.0	7.0	5.0	38.0	20.0	6.0	7.0	8.0	16.0	9.0	17.0	6.0	60.0	17.0	49.0	18.0	6.0	5.0	11.0	13.0	7.0	0.0	0.0
9	0.0	3.0	5.0	1.0	0.0	0.0	2.0	6.0	6.0	6.0	8.0	16.0	14.0	13.0	8.0	13.0	11.0	44.0	23.0	10.0	8.0	8.0	13.0	6.0
10	1.0	12.0	27.0	5.0	5.0	6.0	16.0	38.0	60.0	68.0	82.0	57.0	49.0	54.0	18.0	15.0	12.0	8.0	58.0	46.0	59.0	112.0	83.0	9.0
11	5.0	1.0	2.0	0.0	0.0	3.0	7.0	67.0	97.0	70.0	18.0	32.0	86.0	108.0	35.0	49.0	21.0	46.0	30.0	30.0	5.0	4.0	2.0	2.0
12	0.0	0.0	1.0	8.0	5.0	10.0	16.0	26.0	26.0	90.0	73.0	60.0	62.0	62.0	18.0	14.0	10.0	63.0	83.0	50.0	32.0	6.0	6.0	3.0
13	3.0	5.0	4.0	5.0	9.0	8.0	42.0	18.0	52.0	61.0	61.0	C	485.0	35.0	77.0	106.0	42.0	101.0	87.0	180.0	92.0	130.0	97.0	70.0
14	98.0	210.0	107.0	64.0	27.0	19.0	45.0	49.0	80.0	26.0	51.0	11.0	12.0	30.0	53.0	66.0	47.0	59.0	38.0	59.0	89.0	69.0	44.0	29.0
15	18.0	11.0	6.0	2.0	4.0	4.0	1.0	28.0	41.0	88.0	45.0	21.0	16.0	16.0	46.0	32.0	28.0	17.0	21.0	37.0	3.0	2.0	33.0	57.0
16	48.0	0.0	3.0	6.0	3.0	5.0	4.0	22.0	57.0	41.0	77.0	80.0	87.0	41.0	36.0	118.0	52.0	56.0	27.0	30.0	10.0	9.0	7.0	10.0
17	133.0	68.0	89.0	84.0	4.0	3.0	13.0	7.0	7.0	6.0	6.0	76.0	75.0	40.0	62.0	15.0	50.0	105.0	102.0	177.0	106.0	71.0	78.0	39.0
18	1.0	2.0	3.0	4.0	3.0	18.0	49.0	42.0	15.0	0.0	86.0	416.0	305.0	56.0	38.0	68.0	55.0	68.0	204.0	235.0	57.0	80.0	101.0	65.0
19	29.0	8.0	68.0	60.0	40.0	27.0	34.0	43.0	111.0	70.0	69.0	25.0	5.0	9.0	6.0	11.0	6.0	3.0	5.0	5.0	3.0	2.0	2.0	1.0
20	1.0	3.0	1.0	5.0	4.0	2.0	3.0	2.0	6.0	10.0	6.0	13.0	9.0	10.0	20.0	2.0	14.0	8.0	8.0	9.0	7.0	7.0	7.0	8.0
21	4.0	4.0	7.0	5.0	3.0	6.0	7.0	12.0	28.0	13.0	14.0	8.0	6.0	6.0	4.0	3.0	4.0	4.0	6.0	6.0	14.0	12.0	10.0	7.0
22	5.0	10.0	10.0	6.0	5.0	3.0	2.0	5.0	5.0	24.0	28.0	9.0	5.0	11.0	11.0	8.0	29.0	33.0	57.0	51.0	67.0	0.0	1.0	5.0
23	3.0	3.0	4.0	3.0	3.0	7.0	7.0	8.0	13.0	55.0	54.0	14.0	37.0	46.0	19.0	30.0	42.0	25.0	38.0	34.0	20.0	23.0	7.0	5.0
24	6.0	6.0	12.0	7.0	5.0	19.0	8.0	22.0	25.0	16.0	15.0	70.0	111.0	111.0	87.0	57.0	59.0	55.0	21.0	59.0	14.0	10.0	11.0	6.0
25	1.0	0.0	2.0	7.0	5.0	16.0	25.0	64.0	72.0	51.0	53.0	26.0	112.0	119.0	62.0	147.0	83.0	92.0	59.0	18.0	70.0	65.0	107.0	58.0
26	8.0	5.0	3.0	3.0	5.0	13.0	31.0	32.0	58.0	28.0	89.0	48.0	24.0	78.0	68.0	48.0	91.0	70.0	46.0	30.0	8.0	7.0	5.0	3.0
27	54.0	26.0	9.0	22.0	16.0	22.0	17.0	23.0	60.0	80.0	135.0	102.0	85.0	60.0	172.0	35.0	23.0	38.0	71.0	91.0	70.0	123.0	173.0	57.0
28	72.0	85.0	61.0	63.0	53.0	6.0	6.0	368.0	51.0	22.0	12.0	30.0	33.0	50.0	43.0	28.0	24.0	25.0	66.0	146.0	5.0	5.0	3.0	3.0
29	7.0	6.0	3.0	89.0	4.0	56.0	27.0	48.0	16.0	6.0	2.0	0.0	8.0	10.0	8.0	18.0	15.0	9.0	7.0	4.0	11.0	10.0	6.0	2.0
30	2.0	2.0	3.0	2.0	2.0	2.0	10.0	9.0	6.0	9.0	11.0	9.0	10.0	11.0	7.0	4.0	4.0	5.0	5.0	6.0	4.0	6.0	13.0	17.0
31	14.0	8.0	6.0	10.0	17.0	21.0	63.0	65.0	22.0	15.0	8.0	3.0	6.0	7.0	7.0	8.0	6.0	14.0	15.0	14.0	11.0	14.0	10.0	16.0

MEAN	MAX
11.9	31.0
15.4	54.0
118.8	326.0
111.3	234.0
46.7	151.0
223.7	485.0
21.4	74.0
14.3	60.0
9.3	44.0
37.5	112.0
30.0	108.0
32.8	90.0
77.0	485.0
57.6	210.0
24.0	88.0
34.5	118.0
59.0	177.0
82.1	416.0
26.8	111.0
6.9	20.0
8.0	28.0
16.3	67.0
20.8	55.0
33.8	111.0
54.8	147.0
33.4	91.0
65.2	173.0
52.5	368.0
15.5	89.0
6.6	17.0
15.8	65.0

NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
MEAN	27.6	26.3	21.6	23.4	14.1	26.9	35.2	55.3	59.9	56.8	61.7	60.5	76.0	61.8	59.5	51.1	38.2	39.6	45.0	57.1	38.3	44.7	49.0	25.7
MAX	180.0	210.0	121.0	134.0	83.0	235.0	337.0	371.0	485.0	485.0	454.0	416.0	485.0	485.0	485.0	251.0	158.0	120.0	204.0	235.0	147.0	229.0	326.0	152.0



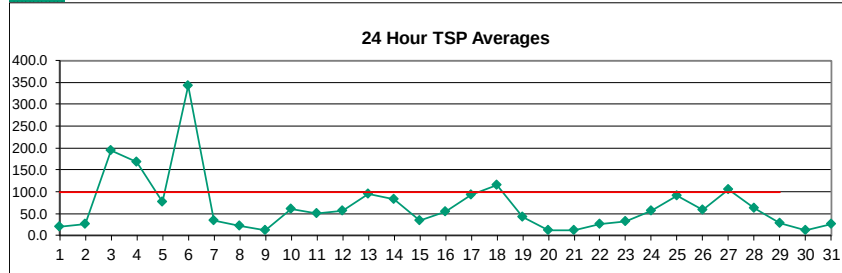
Number of Non-Zero Readings	729
Maximum 1-HR Average	485.0 UG/M3
Maximum 24-HR Average	223.7 UG/M3
Monthly Calibration	1
Standard Deviation	67
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	43.9 UG/M3

Windridge TSP (µg/m³) – May 2022

Day	HOUR																							
	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	22.0	16.0	22.0	36.0	36.0	39.0	40.0	49.0	27.0	13.0	8.0	8.0	13.0	13.0	7.0	49.0	44.0	1.0	6.0	6.0	7.0	5.0	6.0	5.0
2	7.0	5.0	8.0	8.0	5.0	4.0	16.0	80.0	82.0	65.0	54.0	22.0	21.0	17.0	14.0	23.0	36.0	19.0	18.0	20.0	31.0	32.0	14.0	20.0
3	38.0	36.0	15.0	11.0	13.0	55.0	125.0	43.0	92.0	226.0	168.0	147.0	280.0	273.0	367.0	403.0	259.0	209.0	239.0	312.0	178.0	400.0	499.0	274.0
4	292.0	290.0	82.0	133.0	136.0	333.0	185.0	208.0	291.0	194.0	143.0	145.0	191.0	247.0	154.0	141.0	117.0	141.0	91.0	112.0	88.0	159.0	129.0	10.0
5	7.0	6.0	6.0	4.0	12.0	16.0	72.0	147.0	118.0	53.0	243.0	253.0	42.0	9.0	29.0	4.0	8.0	44.0	61.0	91.0	77.0	248.0	177.0	127.0
6	138.0	123.0	194.0	180.0	74.0	321.0	540.0	578.0	985.0	985.0	589.0	414.0	439.0	610.0	666.0	279.0	179.0	93.0	88.0	83.0	183.0	121.0	260.0	82.0
7	1.0	15.0	13.0	10.0	6.0	15.0	54.0	25.0	92.0	97.0	114.0	46.0	60.0	2.0	72.0	49.0	32.0	14.0	34.0	11.0	15.0	7.0	7.0	11.0
8	18.0	3.0	17.0	9.0	40.0	27.0	10.0	11.0	15.0	33.0	19.0	25.0	18.0	81.0	27.0	84.0	37.0	10.0	10.0	6.0	2.0	1.0	1.0	0.0
9	0.0	3.0	3.0	1.0	2.0	3.0	4.0	5.0	4.0	4.0	10.0	21.0	15.0	16.0	10.0	24.0	18.0	67.0	32.0	6.0	25.0	16.0	16.0	1.0
10	6.0	11.0	38.0	5.0	7.0	10.0	23.0	55.0	98.0	104.0	132.0	96.0	78.0	84.0	38.0	26.0	19.0	17.0	94.0	77.0	94.0	181.0	136.0	13.0
11	6.0	0.0	1.0	0.0	0.0	9.0	15.0	101.0	156.0	118.0	28.0	56.0	137.0	172.0	57.0	86.0	35.0	88.0	61.0	57.0	0.0	1.0	1.0	1.0
12	2.0	4.0	3.0	24.0	13.0	19.0	30.0	43.0	56.0	148.0	139.0	96.0	109.0	107.0	106.0	32.0	27.0	21.0	107.0	134.0	83.0	55.0	17.0	4.0
13	10.0	12.0	8.0	9.0	8.0	15.0	76.0	27.0	83.0	103.0	106.0	C	218.0	38.0	123.0	166.0	65.0	134.0	134.0	283.0	133.0	203.0	153.0	101.0
14	143.0	280.0	140.0	76.0	35.0	24.0	56.0	78.0	133.0	40.0	78.0	22.0	27.0	60.0	93.0	101.0	69.0	91.0	58.0	89.0	119.0	85.0	58.0	38.0
15	24.0	12.0	6.0	6.0	5.0	1.0	5.0	23.0	64.0	118.0	59.0	33.0	29.0	26.0	77.0	46.0	46.0	24.0	27.0	46.0	3.0	5.0	43.0	85.0
16	72.0	0.0	4.0	5.0	5.0	4.0	7.0	32.0	82.0	75.0	112.0	117.0	140.0	64.0	72.0	178.0	80.0	82.0	48.0	50.0	16.0	13.0	12.0	15.0
17	171.0	92.0	110.0	101.0	9.0	9.0	21.0	19.0	15.0	9.0	19.0	136.0	129.0	68.0	118.0	18.0	78.0	180.0	169.0	265.0	174.0	120.0	142.0	60.0
18	6.0	5.0	11.0	7.0	3.0	37.0	92.0	88.0	40.0	8.0	174.0	504.0	446.0	91.0	31.0	56.0	96.0	109.0	218.0	259.0	90.0	128.0	175.0	82.0
19	36.0	14.0	100.0	93.0	77.0	49.0	67.0	80.0	172.0	111.0	108.0	50.0	11.0	17.0	7.0	7.0	6.0	3.0	3.0	6.0	4.0	2.0	5.0	3.0
20	0.0	1.0	3.0	0.0	6.0	5.0	3.0	4.0	16.0	24.0	14.0	21.0	15.0	13.0	26.0	16.0	27.0	8.0	9.0	20.0	7.0	11.0	10.0	8.0
21	4.0	4.0	9.0	5.0	9.0	15.0	8.0	16.0	54.0	21.0	24.0	14.0	15.0	8.0	7.0	8.0	14.0	10.0	11.0	8.0	19.0	8.0	8.0	7.0
22	4.0	14.0	11.0	11.0	13.0	8.0	4.0	11.0	8.0	37.0	45.0	20.0	2.0	20.0	18.0	16.0	47.0	61.0	103.0	82.0	84.0	5.0	6.0	6.0
23	6.0	9.0	6.0	4.0	4.0	10.0	7.0	8.0	13.0	89.0	85.0	22.0	59.0	70.0	32.0	46.0	62.0	37.0	61.0	54.0	34.0	42.0	3.0	4.0
24	5.0	8.0	20.0	5.0	7.0	25.0	18.0	36.0	41.0	29.0	26.0	121.0	214.0	189.0	138.0	90.0	91.0	98.0	33.0	87.0	29.0	17.0	18.0	3.0
25	1.0	0.0	4.0	6.0	3.0	27.0	38.0	86.0	122.0	84.0	90.0	44.0	198.0	160.0	106.0	267.0	168.0	155.0	91.0	34.0	109.0	112.0	184.0	95.0
26	11.0	9.0	5.0	4.0	6.0	19.0	47.0	37.0	79.0	38.0	176.0	91.0	46.0	169.0	118.0	81.0	153.0	119.0	78.0	58.0	12.0	10.0	8.0	7.0
27	72.0	33.0	13.0	28.0	23.0	30.0	21.0	30.0	103.0	138.0	240.0	167.0	132.0	89.0	260.0	59.0	38.0	59.0	111.0	139.0	119.0	201.0	302.0	93.0
28	116.0	139.0	96.0	118.0	88.0	6.0	14.0	95.0	80.0	36.0	26.0	45.0	54.0	81.0	59.0	40.0	39.0	41.0	105.0	203.0	8.0	6.0	6.0	11.0
29	8.0	13.0	8.0	128.0	10.0	102.0	55.0	87.0	34.0	6.0	11.0	17.0	14.0	18.0	17.0	22.0	23.0	15.0	4.0	5.0	17.0	21.0	11.0	8.0
30	5.0	5.0	5.0	6.0	4.0	5.0	30.0	10.0	10.0	22.0	25.0	24.0	9.0	8.0	11.0	11.0	11.0	9.0	9.0	4.0	3.0	8.0	24.0	24.0
31	16.0	12.0	8.0	10.0	14.0	29.0	96.0	99.0	35.0	22.0	18.0	11.0	16.0	13.0	25.0	17.0	15.0	19.0	35.0	25.0	13.0	13.0	14.0	26.0

MEAN	MAX
19.9	49.0
25.9	82.0
194.3	499.0
167.2	333.0
77.3	253.0
341.8	985.0
33.4	114.0
21.0	84.0
12.8	67.0
60.1	181.0
49.4	172.0
57.5	148.0
96.0	283.0
83.0	280.0
33.9	118.0
53.5	178.0
93.0	265.0
114.8	504.0
43.0	172.0
11.1	27.0
12.8	54.0
26.5	103.0
32.0	89.0
56.2	95.0
91.0	267.0
57.5	176.0
104.2	302.0
63.0	203.0
27.3	128.0
11.8	30.0
25.0	99.0

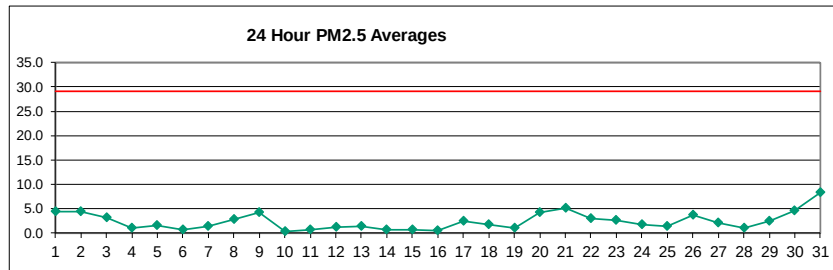
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31
MEAN	40.2	37.9	31.3	33.6	21.7	41.0	57.4	71.3	103.2	98.4	99.5	92.9	102.5	91.4	93.1	78.9	62.5	63.8	69.3	84.9	57.3	72.1	78.9	39.5
MAX	292.0	290.0	194.0	180.0	136.0	333.0	540.0	578.0	985.0	985.0	589.0	504.0	446.0	610.0	666.0	403.0	259.0	209.0	239.0	312.0	183.0	400.0	499.0	274.0



Number of 24HR Exceedences	5	Proposed Guideline
Number of Non-Zero Readings	733	
Maximum 1-HR Average	985.0 UG/M3	
Maximum 24-HR Average	341.8 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	99.9	Monthly Average
		744 HRS
		100.0 %
		67.6 UG/M3

West PM_{2.5} (µg/m³) – May 2022

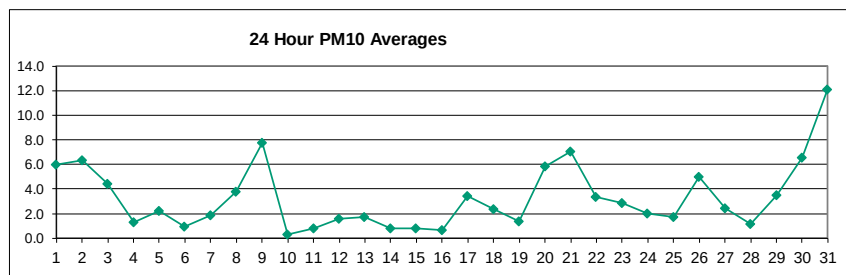
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7.3	7.7	7.7	7.8	7.9	7.9	6.8	7.4	6.1	8.4	4.1	4.4	2.6	2.0	1.5	1.3	1.3	1.2	1.3	1.3	1.8	1.8	3.8	2.4	4.4	8.4
2	2.1	4.1	2.8	2.9	3.1	3.2	3.8	3.3	3.5	2.7	2.0	1.9	2.2	3.8	6.3	6.8	8.6	6.5	4.2	5.4	6.8	7.5	6.2	8.3	4.5	8.6
3	6.8	7.5	11.0	5.0	4.2	4.1	3.7	5.2	3.9	3.4	2.5	1.8	1.6	1.4	1.4	1.8	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.8	3.2	11.0
4	1.4	1.4	1.6	1.2	1.0	1.1	1.6	2.4	1.8	1.6	1.2	1.0	0.5	0.5	0.5	0.7	0.8	1.0	0.7	0.5	0.5	0.4	0.5	0.6	1.0	2.4
5	0.8	1.3	1.9	1.5	3.5	4.8	3.6	2.6	3.3	3.1	1.9	1.8	1.8	1.4	1.2	0.6	0.5	0.6	0.5	0.3	0.2	0.2	0.1	0.1	1.6	4.8
6	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.9	1.3	1.2	1.2	1.2	1.3	1.5	1.3	1.1	1.0	0.8	0.7	0.6	0.7	0.6	0.7	0.7	1.5
7	0.7	0.8	0.8	0.9	1.0	0.9	0.7	0.6	0.6	0.7	0.5	0.4	0.4	0.6	0.5	0.5	0.5	0.6	0.6	6.2	2.4	3.5	4.2	4.5	1.4	6.2
8	4.4	8.3	3.8	2.1	2.5	2.0	1.5	1.6	1.7	0.9	0.5	0.4	0.6	5.6	1.1	1.2	10.6	3.8	4.7	1.8	2.5	3.9	0.8	0.6	2.8	10.6
9	0.7	3.9	1.8	2.3	4.4	3.0	2.9	2.9	4.6	7.9	9.6	10.4	6.6	9.1	5.7	8.0	2.8	0.3	0.2	0.4	4.8	7.3	2.6	0.4	4.3	10.4
10	0.4	0.2	0.2	0.3	0.2	0.2	0.3	0.6	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.3	0.3	0.3	0.6
11	0.4	0.4	0.5	0.4	0.4	0.7	0.6	0.7	0.7	0.4	0.3	0.4	0.7	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.5	1.0	1.4	0.7	1.5
12	1.8	1.5	1.4	1.5	1.4	1.6	2.1	1.9	2.3	1.4	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.1	1.1	1.3	1.5	1.7	1.3	2.3
13	1.7	1.9	2.0	2.0	1.7	2.0	2.3	3.9	2.7	1.8	1.5	1.5	1.3	1.1	0.9	0.5	0.4	0.2	0.3	0.4	0.4	0.3	0.4	0.3	1.3	3.9
14	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.8	1.0	1.1	1.2	1.1	0.9	0.9	0.9	0.8	0.8	1.0	0.9	0.7	0.8	0.7	1.2
15	0.9	0.8	0.8	0.8	0.8	0.7	0.9	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.3	0.4	0.7	1.0
16	0.4	0.5	0.6	0.5	0.7	0.4	0.7	1.1	0.6	0.5	0.6	0.6	0.5	0.4	0.5	0.3	0.5	0.5	0.5	0.7	0.7	0.4	0.4	0.5	0.5	1.1
17	0.5	0.4	0.3	0.5	0.9	2.9	12.6	7.6	10.0	4.3	2.1	0.9	0.8	1.3	1.3	1.6	2.1	2.1	1.6	1.4	1.2	1.2	1.3	1.3	2.5	12.6
18	1.8	2.0	6.3	3.8	3.7	2.7	3.0	2.9	2.9	3.5	1.8	1.3	0.7	0.4	0.5	0.7	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.2	1.7	6.3
19	0.2	0.2	0.1	0.1	0.1	0.1	3.1	5.9	0.6	0.7	0.7	0.5	1.8	1.0	0.7	1.3	0.5	0.6	0.4	0.4	0.6	0.9	1.5	1.4	1.0	5.9
20	2.1	2.8	4.1	4.9	2.0	3.4	3.5	5.6	2.1	1.7	2.1	3.9	6.7	10.5	3.9	2.8	4.0	5.0	3.1	3.3	6.0	6.1	6.4	3.8	4.2	10.5
21	3.8	6.0	3.9	3.5	3.6	3.8	3.7	3.1	2.8	3.3	4.8	3.5	7.0	7.1	4.2	6.0	7.6	6.1	7.4	11.7	5.2	4.3	4.9	4.9	5.1	11.7
22	4.2	5.0	4.7	4.2	4.0	4.0	3.7	3.3	2.8	2.3	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.2	2.3	2.5	3.1	3.1	3.8	3.0	5.0
23	3.4	3.6	3.5	3.3	3.3	3.4	3.8	3.2	2.9	2.7	2.6	2.6	2.6	2.4	2.2	1.9	1.8	1.7	1.6	1.5	1.6	1.7	1.8	2.2	2.6	3.8
24	2.0	2.0	1.9	2.2	2.0	2.3	2.7	2.5	2.6	2.0	2.0	1.9	1.5	1.2	1.1	1.2	1.1	1.1	1.2	1.0	1.1	1.1	1.2	1.3	1.7	2.7
25	1.6	1.4	1.6	1.6	1.8	1.6	2.0	2.2	2.1	1.7	1.4	1.2	1.2	1.2	1.4	1.4	1.3	0.7	1.0	1.0	1.0	1.4	1.7	1.9	1.5	2.2
26	2.4	3.2	2.6	2.5	2.6	2.9	4.2	5.0	5.4	5.0	4.9	7.1	7.5	2.1	2.4	2.5	2.5	2.6	2.5	2.6	2.8	3.2	5.4	5.1	3.7	7.5
27	4.2	4.3	4.5	5.2	5.3	5.7	4.9	3.8	2.5	1.9	0.8	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.4	0.4	0.5	0.6	2.0	5.7
28	0.6	0.5	0.6	0.8	0.8	0.7	0.8	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	0.9	0.9	0.8	0.8	0.8	1.1	2.2	1.8	1.7	1.0	2.2
29	1.6	1.7	1.7	1.6	1.6	1.7	1.5	1.8	3.9	3.3	2.5	2.4	5.6	4.3	3.5	6.8	3.6	1.3	2.3	1.0	2.0	1.6	1.7	1.5	2.5	6.8
30	3.2	3.9	2.4	1.8	1.8	1.7	8.0	13.9	2.7	4.7	5.1	4.7	2.8	2.0	2.7	2.8	4.3	2.8	4.7	5.3	6.0	5.5	8.1	7.8	4.5	13.9
31	8.8	10.3	8.9	7.5	8.7	9.1	8.2	8.9	7.5	9.7	7.9	5.0	7.8	7.5	5.8	5.9	12.4	11.5	8.3	5.8	7.3	8.6	10.0	6.6	8.3	12.4
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	2.3	2.8	2.7	2.4	2.4	2.5	3.2	3.4	2.8	2.7	2.3	2.2	2.3	2.4	1.9	2.1	2.5	1.9	1.8	2.0	2.1	2.4	2.4	2.2		
MAX	8.8	10.3	11.0	7.8	8.7	9.1	12.6	13.9	10.0	9.7	9.6	10.4	7.8	10.5	6.3	8.0	12.4	11.5	8.3	11.7	7.3	8.6	10.0	8.3		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	13.9 UG/M3	
Maximum 24-HR Average	8.3 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	2.393	Monthly Average
		744 HRS
		100.0 %
		2.4 UG/M3

West PM₁₀ (µg/m³) – May 2022

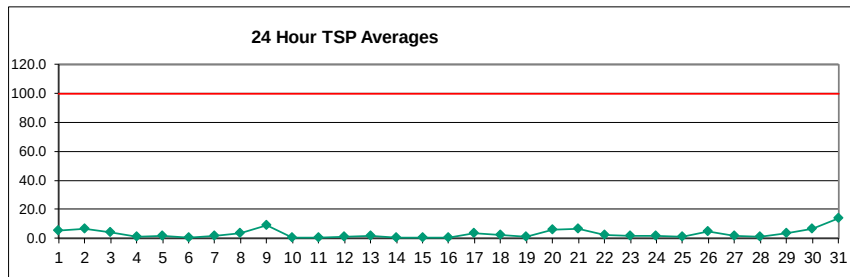
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.2	10.2	11.1	10.7	10.9	11.0	9.4	9.8	8.7	12.5	5.8	6.3	3.3	2.4	1.8	1.5	1.5	1.3	1.3	1.4	2.2	2.2	5.4	2.9	6.0	12.5
2	2.5	5.3	3.4	3.6	3.9	3.7	5.0	4.4	5.1	3.6	2.5	2.4	2.9	5.5	9.3	10.0	12.7	9.2	6.1	8.0	10.1	11.1	9.1	12.2	6.3	12.7
3	10.2	10.8	16.0	7.0	5.6	5.3	4.9	7.7	5.7	4.9	3.4	2.3	2.1	1.7	1.8	2.4	1.5	1.4	1.7	1.6	1.7	1.7	1.7	2.4	4.4	16.0
4	1.7	1.5	1.8	1.3	1.1	1.3	2.0	3.5	2.5	2.2	1.6	1.4	0.6	0.6	0.5	0.9	1.0	1.2	0.9	0.6	0.6	0.5	0.6	0.8	1.3	3.5
5	1.0	1.6	2.5	1.8	5.0	7.1	5.2	3.6	4.9	4.5	2.4	2.3	2.3	1.7	1.5	0.7	0.6	0.7	0.6	0.3	0.2	0.3	0.1	0.1	2.2	7.1
6	0.1	0.1	0.1	0.3	0.1	0.3	0.4	0.3	1.2	1.8	1.7	1.6	1.6	1.7	2.1	1.6	1.3	1.2	0.9	0.8	0.7	0.8	0.7	0.8	0.9	2.1
7	0.9	0.9	0.9	1.1	1.1	1.0	0.9	0.7	0.7	0.8	0.6	0.4	0.5	0.8	0.6	0.5	0.5	0.6	0.6	9.3	3.5	5.1	6.2	6.6	1.9	9.3
8	6.5	12.5	5.7	3.0	3.3	2.5	1.8	2.0	2.2	1.1	0.5	0.4	0.7	5.7	1.2	1.3	15.8	5.6	6.9	2.1	3.2	5.7	0.9	0.7	3.8	15.8
9	0.9	5.6	2.4	3.1	10.8	7.3	3.1	3.4	5.8	17.4	27.4	28.4	9.7	13.4	8.3	11.8	4.1	0.4	0.3	0.5	7.1	10.9	3.9	0.5	7.8	28.4
10	0.5	0.2	0.2	0.3	0.2	0.2	0.3	0.7	0.8	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.8
11	0.4	0.6	0.6	0.5	0.5	0.8	0.7	0.9	1.0	0.5	0.3	0.5	0.9	0.7	0.7	0.8	0.7	0.6	0.7	0.7	1.1	2.0	1.3	1.9	0.8	2.0
12	2.3	1.8	1.7	1.8	1.6	2.0	2.7	2.6	3.3	1.9	1.1	1.0	0.9	0.9	0.9	1.0	1.0	0.9	1.0	1.4	1.4	1.6	1.9	2.2	1.6	3.3
13	2.1	2.3	2.4	2.6	2.0	2.5	3.1	5.9	3.9	2.3	1.8	1.8	1.9	1.4	1.0	0.6	0.4	0.3	0.3	0.5	0.5	0.4	0.5	0.4	1.7	5.9
14	0.3	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.6	0.6	0.9	1.1	1.2	1.3	1.3	1.0	1.0	1.0	0.9	1.0	1.2	1.0	0.8	0.9	0.8	1.3
15	1.0	0.9	0.9	0.9	0.9	0.8	1.0	1.1	1.1	1.0	0.9	0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.5	0.8	1.1
16	0.4	0.6	0.6	0.5	0.8	0.5	0.9	1.5	0.8	0.6	0.9	0.8	0.6	0.5	0.6	0.4	0.6	0.6	0.6	0.9	0.8	0.5	0.4	0.6	0.7	1.5
17	0.6	0.4	0.4	0.5	1.2	4.2	18.9	11.3	15.0	6.5	3.1	1.0	0.9	1.5	1.5	1.7	2.5	2.5	1.9	1.7	1.3	1.3	1.4	1.4	3.5	18.9
18	2.2	2.6	9.4	5.6	5.4	3.6	4.1	4.2	4.0	5.0	2.4	1.8	0.9	0.6	0.6	0.8	0.6	0.6	0.5	0.7	0.3	0.2	0.2	0.2	2.4	9.4
19	0.2	0.2	0.1	0.1	0.1	0.1	4.7	8.8	0.9	0.9	1.0	0.6	2.6	1.5	0.8	1.8	0.6	0.8	0.4	0.5	0.8	1.3	1.9	1.7	1.4	8.8
20	2.9	3.9	5.8	7.1	2.6	4.8	5.0	8.2	2.8	1.9	2.7	5.5	9.5	15.5	5.5	3.9	5.7	7.2	3.8	4.3	8.6	9.0	8.9	5.1	5.8	15.5
21	5.1	8.6	5.2	4.2	4.2	4.4	4.2	3.5	3.2	4.3	6.7	4.6	10.3	10.3	5.9	8.8	11.3	9.0	11.0	17.4	7.5	6.2	6.9	6.8	7.1	17.4
22	5.1	6.0	5.6	4.7	4.3	4.5	3.9	3.7	3.1	2.4	2.2	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.3	2.5	2.9	3.9	3.7	4.6	3.4	6.0
23	3.9	4.0	3.8	3.6	3.6	3.7	4.4	3.6	3.4	3.0	2.8	2.8	2.8	2.7	2.4	2.1	2.0	1.9	1.7	1.7	1.9	2.0	2.1	2.7	2.9	4.4
24	2.3	2.3	2.2	2.5	2.3	2.8	3.5	3.4	3.6	2.5	2.6	2.4	1.7	1.3	1.2	1.4	1.3	1.3	1.3	1.1	1.3	1.2	1.3	1.5	2.0	3.6
25	1.9	1.6	1.9	1.8	2.1	1.8	2.7	3.1	2.9	2.3	1.7	1.3	1.4	1.5	1.6	1.9	1.7	0.8	1.0	1.0	1.0	1.5	1.8	2.0	1.8	3.1
26	2.7	3.9	2.9	2.9	3.0	3.7	5.8	7.3	8.1	7.5	7.3	10.6	11.1	2.5	2.9	2.7	2.7	2.9	2.9	3.0	3.3	4.1	7.9	7.3	5.0	11.1
27	5.1	5.2	5.2	6.4	6.1	7.0	6.0	5.1	3.2	2.5	1.0	0.5	0.4	0.3	0.6	0.6	0.6	0.7	0.4	0.3	0.4	0.5	0.6	0.7	2.5	7.0
28	0.7	0.6	0.7	0.9	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.1	1.0	1.1	1.1	0.9	1.0	0.9	0.9	0.9	1.4	3.0	2.3	2.0	1.1	3.0
29	1.8	1.9	2.0	1.9	1.8	2.0	1.8	2.2	5.8	4.9	3.7	3.6	8.3	6.4	5.1	10.2	5.4	1.8	3.4	1.4	3.0	2.2	2.4	2.0	3.5	10.2
30	4.7	5.7	3.3	2.4	2.5	2.3	11.9	20.9	3.9	6.7	7.5	6.8	3.7	2.5	3.7	3.8	6.1	3.8	6.8	8.0	8.9	8.1	12.0	11.4	6.6	20.9
31	12.4	15.0	13.4	10.9	12.3	12.8	10.4	12.5	11.2	14.6	11.8	7.4	11.6	11.2	8.5	8.8	18.3	17.2	12.5	8.6	10.8	12.9	14.9	9.9	12.1	18.3
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	3.0	3.8	3.6	3.1	3.2	3.4	4.2	4.7	3.9	3.9	3.5	3.4	3.2	3.2	2.5	2.8	3.4	2.6	2.4	2.7	2.9	3.3	3.3	3.0		
MAX	12.4	15.0	16.0	10.9	12.3	12.8	18.9	20.9	15.0	17.4	27.4	28.4	11.6	15.5	9.3	11.8	18.3	17.2	12.5	17.4	10.8	12.9	14.9	12.2		



Number of Non-Zero Readings	744
Maximum 1-HR Average	28.4 UG/M3
Maximum 24-HR Average	12.1 UG/M3
IZS Calibration Time	
Down Time	0
Standard Deviation	3.8
OperatioEI Time	744 HRS
OperatioEI Uptime	100.0 %
Monthly Average	3.3 UG/M3

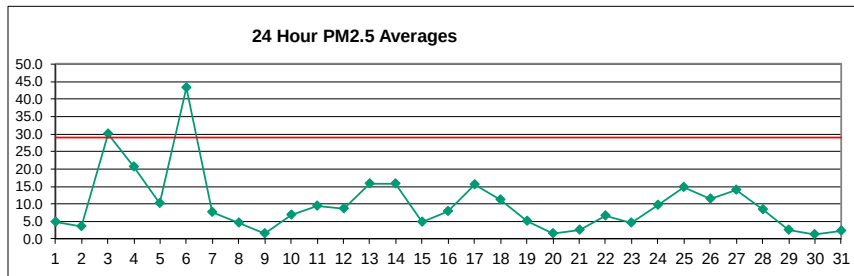
West TSP (µg/m³) – May 2022

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.1	10.6	10.1	9.9	9.7	10.9	7.6	8.4	7.4	13.9	5.0	5.6	2.7	1.6	1.2	1.0	1.0	0.9	0.9	0.9	1.5	1.5	4.7	2.1	5.3	13.9
2	1.7	3.7	2.5	2.5	2.7	2.6	4.3	3.4	4.8	3.0	1.8	1.8	2.3	5.6	10.6	11.2	14.5	10.3	6.5	8.5	11.3	12.3	9.9	13.7	6.3	14.5
3	11.4	11.9	18.2	5.7	4.2	3.8	3.8	7.8	5.5	4.3	2.9	1.7	1.7	1.2	1.4	2.2	1.1	1.0	1.2	1.2	1.2	1.2	1.2	2.1	4.1	18.2
4	1.2	1.0	1.3	0.9	0.8	0.9	1.7	3.5	2.3	1.9	1.3	1.1	0.5	0.4	0.4	0.6	0.8	0.9	0.7	0.4	0.5	0.4	0.4	0.6	1.0	3.5
5	0.7	1.3	1.9	1.3	5.0	7.4	4.7	3.4	5.1	4.5	1.7	1.6	1.8	1.6	1.2	1.2	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.1	2.0	7.4
6	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.2	1.2	1.8	1.6	1.5	1.4	1.5	1.7	1.2	0.9	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.7	1.8
7	0.6	0.6	0.6	0.7	0.8	0.7	0.6	0.4	0.5	0.5	0.4	0.3	0.3	0.6	0.5	0.4	0.4	0.4	0.4	10.5	3.6	5.4	6.7	7.1	1.8	10.5
8	6.8	14.1	6.0	2.5	2.4	1.9	1.2	1.6	1.7	0.8	0.4	0.3	0.5	3.7	0.8	0.9	18.2	5.9	7.6	1.4	2.4	5.1	0.6	0.5	3.6	18.2
9	0.7	5.4	1.9	2.9	7.3	6.6	2.0	2.4	4.2	23.7	37.5	41.3	10.2	15.2	8.9	13.1	4.2	0.3	0.2	0.4	7.5	12.2	4.2	0.4	8.9	41.3
10	0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.7	0.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.7
11	0.3	0.4	0.5	0.4	0.4	0.6	0.6	0.8	0.8	0.4	0.2	0.3	0.7	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.8	1.7	1.0	1.4	0.6	1.7
12	1.8	1.3	1.2	1.3	1.1	1.4	2.1	2.4	3.4	1.7	0.8	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.8	1.0	1.0	1.1	1.5	1.7	1.3	3.4
13	1.5	1.7	1.8	2.0	1.4	1.8	2.5	6.5	3.9	1.8	1.3	1.4	2.4	1.1	0.7	0.4	0.3	0.2	0.2	0.3	0.4	0.3	0.4	0.2	1.4	6.5
14	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.6	0.7	0.8	0.8	0.9	0.7	0.7	0.6	0.6	0.6	0.8	0.7	0.5	0.6	0.5	0.9
15	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.5	0.8
16	0.3	0.4	0.4	0.4	0.6	0.3	0.7	1.4	0.6	0.5	0.8	0.7	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.6	0.3	0.3	0.4	0.5	1.4
17	0.4	0.3	0.2	0.4	1.0	4.6	21.9	13.0	17.3	7.1	3.1	0.8	0.6	1.0	1.1	1.1	1.8	1.8	1.2	1.2	0.9	0.9	1.0	0.9	3.5	21.9
18	1.6	2.0	9.9	5.3	4.8	2.9	3.8	4.3	3.8	5.2	2.1	1.6	0.7	0.4	0.5	0.6	0.4	0.4	0.4	0.5	0.2	0.1	0.1	0.1	2.2	9.9
19	0.1	0.2	0.1	0.1	0.1	0.1	5.2	10.1	0.8	0.8	0.9	0.5	2.7	1.5	0.6	1.6	0.4	0.5	0.3	0.4	0.7	1.0	1.4	1.2	1.3	10.1
20	2.6	3.8	5.8	7.3	2.2	4.7	4.9	8.7	2.3	1.3	2.1	5.3	10.4	17.7	5.6	3.6	5.6	7.1	2.8	3.4	8.6	9.4	9.1	4.3	5.8	17.7
21	4.0	8.5	4.1	2.9	2.8	3.0	2.8	2.3	2.1	3.6	6.7	3.8	11.3	11.2	5.6	9.5	12.8	9.6	12.4	19.8	7.6	6.2	6.6	5.5	6.9	19.8
22	3.6	4.1	3.8	3.1	2.8	3.0	2.6	2.5	2.1	1.6	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.7	2.0	3.0	2.6	3.3	2.3	4.1
23	2.7	2.7	2.5	2.4	2.4	2.4	3.0	2.4	2.3	2.0	1.9	1.9	1.9	1.8	1.6	1.4	1.4	1.3	1.1	1.1	1.3	1.4	1.5	1.9	1.9	3.0
24	1.6	1.6	1.5	1.7	1.5	2.1	2.9	2.9	3.3	2.0	2.0	2.0	1.2	0.9	0.8	1.0	0.9	0.9	0.9	0.7	1.0	0.9	0.9	1.1	1.5	3.3
25	1.4	1.1	1.3	1.2	1.5	1.3	2.4	2.9	2.5	1.9	1.3	0.8	1.0	1.0	1.3	1.6	1.4	0.5	0.7	0.7	0.7	1.0	1.2	1.4	1.3	2.9
26	1.8	2.9	2.0	2.0	2.1	2.8	5.4	7.6	8.6	8.2	8.1	12.0	12.3	1.8	2.2	1.8	1.8	2.0	1.9	2.0	2.4	3.2	8.0	6.9	4.6	12.3
27	3.6	3.6	3.6	4.6	4.2	5.3	4.4	4.1	2.4	2.1	0.7	0.3	0.3	0.2	0.5	0.4	0.4	0.5	0.3	0.2	0.3	0.3	0.4	0.4	1.8	5.3
28	0.4	0.4	0.4	0.6	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.7	0.6	0.7	0.6	0.6	0.6	1.0	2.7	1.9	1.4	0.8	2.7
29	1.3	1.4	1.4	1.3	1.3	1.4	1.2	1.8	6.2	5.5	4.0	3.7	9.3	7.0	5.6	11.7	6.0	1.5	3.4	1.1	3.0	1.9	2.1	1.7	3.5	11.7
30	4.5	6.0	2.9	2.2	2.2	1.9	13.3	24.1	4.0	7.2	8.0	7.4	3.3	1.9	3.6	3.6	6.4	3.5	7.2	8.4	9.6	8.6	13.0	11.6	6.8	24.1
31	12.5	16.5	15.4	12.1	13.8	14.5	12.0	14.3	12.8	16.8	13.5	8.3	13.2	12.7	9.5	9.9	21.1	19.8	14.3	9.8	12.2	14.9	17.3	11.3	13.7	21.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	2.6	3.5	3.3	2.5	2.6	2.9	3.9	4.7	3.7	4.1	3.7	3.6	3.1	3.1	2.3	2.7	3.5	2.4	2.3	2.6	2.7	3.2	3.2	2.7		
MAX	12.5	16.5	18.2	12.1	13.8	14.5	21.9	24.1	17.3	23.7	37.5	41.3	13.2	17.7	10.6	13.1	21.1	19.8	14.3	19.8	12.2	14.9	17.3	13.7		



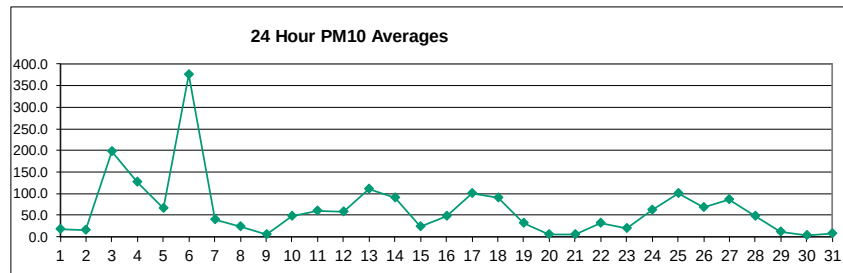
Berm PM_{2.5} (µg/m³) – May 2022

DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.9	3.9	4.0	4.2	5.1	4.4	5.4	7.5	7.0	4.9	3.0	1.6	4.3	3.5	2.9	11.9	5.2	13.7	11.6	4.7	1.3	1.0	1.1	1.1	4.9	13.7
2	1.4	1.5	1.4	1.9	1.9	2.0	3.1	8.8	12.0	9.3	7.7	5.9	2.5	2.0	1.9	2.3	3.1	1.8	1.9	2.4	2.8	2.7	2.2	2.3	3.5	12.0
3	3.1	3.4	2.2	2.4	3.5	11.3	10.5	4.2	9.0	28.9	35.8	31.4	72.3	52.6	62.7	64.6	39.3	34.4	42.7	41.5	23.8	55.7	59.3	24.7	30.0	72.3
4	20.2	13.6	7.0	16.7	24.2	47.8	19.6	20.3	32.6	23.2	17.2	19.4	30.6	30.1	32.0	27.4	18.8	17.7	21.8	25.7	8.1	14.6	4.4	1.1	20.6	47.8
5	1.5	1.9	1.4	1.1	2.5	2.5	5.1	11.5	16.7	14.1	44.3	34.8	7.1	2.9	11.4	3.7	1.3	7.4	9.0	9.0	7.7	21.7	17.2	8.6	10.2	44.3
6	6.8	7.5	3.8	7.2	8.3	33.7	75.8	76.1	122.6	136.4	81.7	62.4	57.0	73.6	81.4	48.0	28.2	13.7	10.9	9.8	27.9	28.3	25.6	9.4	43.2	136.4
7	1.4	2.6	2.0	2.5	2.0	4.9	5.5	6.4	9.0	34.8	24.2	27.8	14.9	1.5	7.8	11.9	7.5	6.8	4.4	1.8	1.5	1.0	0.8	1.0	7.7	34.8
8	1.3	0.8	0.9	1.6	12.1	8.7	2.5	1.8	2.9	2.2	11.1	4.4	4.9	17.9	18.9	12.8	1.5	1.0	1.0	0.9	1.0	0.7	0.7	0.2	4.7	18.9
9	0.3	0.4	0.5	0.4	0.2	0.5	1.1	1.9	2.0	2.5	3.0	3.5	2.9	2.3	1.8	1.9	2.0	4.6	1.5	2.9	1.0	0.8	0.6	0.5	1.6	4.6
10	0.9	0.5	0.5	0.5	0.4	0.9	2.4	3.9	5.7	6.8	11.1	9.9	9.0	15.6	15.2	12.4	10.7	12.2	9.4	7.4	5.9	12.1	12.1	1.7	7.0	15.6
11	0.5	0.4	0.3	0.4	0.5	1.5	2.4	10.1	24.0	15.8	21.5	21.3	26.7	28.4	15.8	12.1	9.3	15.8	8.5	7.4	0.6	0.4	0.4	0.7	9.4	28.4
12	0.5	0.6	0.9	1.4	1.1	2.7	2.7	4.2	6.5	18.3	20.6	15.9	23.3	16.1	21.8	11.6	9.3	8.8	16.3	17.2	4.5	3.1	1.5	0.9	8.7	23.3
13	1.6	1.9	1.7	1.5	1.7	1.6	4.4	4.0	10.9	17.0	13.4	18.2	17.8	10.3	29.2	41.5	33.8	32.8	23.4	35.7	16.1	28.1	21.2	11.5	15.8	41.5
14	20.6	55.3	33.4	10.5	2.2	1.0	4.1	7.6	26.8	10.1	14.3	14.8	15.1	21.9	25.3	21.9	15.5	13.2	17.3	12.3	15.8	10.9	5.2	1.6	15.7	55.3
15	1.4	0.8	0.6	0.9	1.1	1.0	2.1	4.3	12.5	19.0	8.6	9.9	11.7	8.4	8.7	7.8	1.7	2.7	2.3	2.8	0.8	0.8	2.8	3.7	4.8	19.0
16	2.9	0.5	0.5	0.5	0.5	1.0	0.8	3.5	10.0	11.1	18.0	17.6	19.0	7.8	13.0	39.2	11.0	10.4	8.7	4.7	1.8	2.8	2.2	1.9	7.9	39.2
17	8.9	31.9	26.4	10.3	4.3	1.5	1.2	1.3	1.3	1.0	1.2	17.8	20.0	16.6	35.1	12.6	18.4	32.1	31.0	29.3	24.1	22.2	19.6	4.8	15.5	35.1
18	1.0	1.0	1.0	0.9	1.3	7.8	11.3	10.5	6.4	1.9	20.2	60.0	37.4	10.1	3.1	2.6	5.5	8.5	16.1	21.9	4.6	13.2	17.6	6.1	11.3	60.0
19	2.9	1.2	6.7	9.8	1.9	10.4	5.5	7.0	20.1	15.9	19.9	6.5	1.2	0.9	1.2	2.4	4.0	0.9	1.1	1.0	0.7	0.5	0.3	0.4	5.1	20.1
20	0.5	0.6	0.5	0.6	0.8	0.9	0.8	0.8	4.0	4.7	1.7	3.4	1.5	1.6	1.6	1.3	1.9	2.1	1.5	2.3	1.7	1.9	1.4	1.3	1.6	4.7
21	1.3	1.4	1.4	3.6	4.3	3.1	2.5	4.3	5.7	2.6	3.0	3.5	2.0	1.7	2.3	2.0	2.1	1.7	1.7	2.3	2.6	1.5	1.5	1.5	2.5	5.7
22	2.5	4.4	4.0	3.2	3.2	2.2	2.4	2.4	2.0	10.9	12.7	6.5	4.6	5.7	8.6	12.8	13.3	14.7	17.2	10.3	6.1	2.1	2.0	2.0	6.5	17.2
23	2.2	2.4	2.5	2.3	2.5	2.8	2.4	2.6	3.2	8.6	9.6	4.6	11.3	10.2	5.5	5.7	5.8	6.9	6.5	6.9	2.5	1.5	1.2	1.9	4.6	11.3
24	2.0	3.5	2.4	1.4	1.4	3.5	2.4	4.9	4.1	3.0	4.2	30.7	33.0	20.0	27.0	13.9	25.6	17.2	9.0	16.7	3.5	1.7	1.4	0.7	9.7	33.0
25	0.7	0.7	1.0	1.4	1.8	2.7	4.3	8.9	14.1	14.3	11.4	17.6	40.7	32.3	29.3	51.7	19.0	18.2	19.3	15.2	8.7	11.7	21.4	7.8	14.8	51.7
26	2.4	2.6	2.7	2.0	2.2	3.1	6.1	5.5	7.2	4.9	13.3	9.4	4.5	48.4	39.9	31.7	28.4	21.4	14.1	13.2	2.5	2.0	2.0	2.2	11.3	48.4
27	7.8	5.1	4.9	5.7	5.7	5.9	4.3	4.4	12.7	17.3	26.3	35.1	20.9	20.3	18.8	13.8	9.4	6.1	10.0	22.4	14.6	25.3	31.5	8.3	14.0	35.1
28	12.1	9.4	8.5	16.6	9.3	1.3	1.9	12.0	11.1	4.4	4.0	4.5	5.6	29.8	7.0	14.5	5.1	5.1	21.7	13.5	1.8	0.7	1.1	1.8	8.5	29.8
29	2.0	1.3	1.7	14.6	1.8	5.2	7.4	9.5	2.3	0.6	0.8	0.9	1.3	1.1	1.2	1.3	1.2	0.9	0.8	0.6	1.7	0.7	1.2	1.4	2.6	14.6
30	0.8	0.9	0.7	0.6	0.6	0.5	0.9	0.8	1.0	1.4	1.8	1.4	1.0	1.2	2.1	4.5	1.5	1.2	1.1	1.0	1.3	1.2	2.6	2.5	1.4	4.5
31	2.7	1.4	1.0	1.5	2.2	2.9	5.0	7.6	2.9	2.0	1.4	1.6	1.8	1.4	1.9	1.5	1.9	1.8	2.1	1.7	1.6	1.8	1.4	2.7	2.2	7.6
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	3.8	5.3	4.1	4.1	3.6	5.8	6.6	8.3	13.2	14.5	15.1	16.2	16.3	16.0	17.2	16.2	11.0	10.8	11.1	11.1	6.4	8.8	8.5	3.7		
MAX	20.6	55.3	33.4	16.7	24.2	47.8	75.8	76.1	122.6	136.4	81.7	62.4	72.3	73.6	81.4	64.6	39.3	34.4	42.7	41.5	27.9	55.7	59.3	24.7		



Berm PM₁₀ (µg/m³) – May 2022

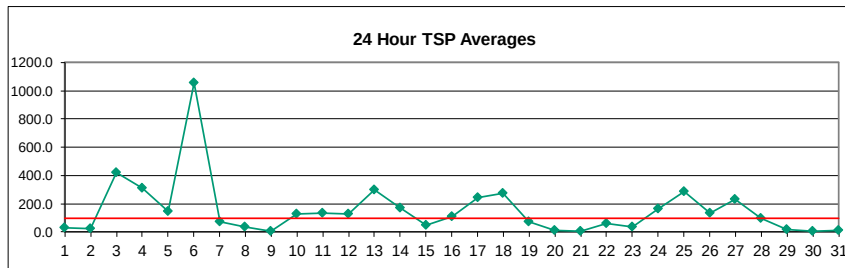
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.9	6.8	10.0	8.0	9.6	6.3	8.0	12.2	19.7	17.2	8.9	2.5	26.7	16.9	14.6	68.7	28.0	76.9	62.6	20.2	2.1	1.1	1.5	1.2	18.2	76.9
2	2.4	2.6	2.3	4.5	4.0	4.3	10.2	48.4	73.6	53.8	47.9	33.7	9.5	6.5	5.9	8.7	12.3	5.0	5.4	8.3	8.4	7.5	4.0	4.2	15.5	73.6
3	7.8	10.3	3.2	3.7	8.0	51.0	53.1	18.9	59.1	213.9	246.3	214.8	503.8	359.8	410.9	433.9	271.0	232.2	266.4	286.9	133.8	398.7	392.8	184.2	198.5	503.8
4	109.5	64.3	28.5	82.4	116.7	290.8	138.7	140.3	209.1	151.5	106.0	108.4	185.1	188.5	209.5	175.5	111.2	127.6	150.8	161.9	49.1	93.4	25.4	3.0	126.1	290.8
5	3.6	4.5	2.5	1.5	8.1	6.3	18.3	61.4	110.6	106.7	335.1	217.6	56.5	12.9	73.5	23.8	5.1	43.6	41.4	49.9	53.3	165.2	113.4	59.9	65.6	335.1
6	51.6	60.9	22.5	43.7	80.5	362.5	814.8	761.1	1174.2	1221.6	709.7	516.8	463.0	615.5	710.7	389.5	220.7	86.9	69.8	65.2	180.5	182.7	161.0	41.9	375.3	1221.6
7	4.5	10.4	6.7	8.9	7.0	20.3	26.7	27.8	47.9	223.4	142.4	108.2	79.7	5.9	48.3	65.1	41.3	34.5	25.3	5.7	5.0	1.8	1.1	1.9	39.6	223.4
8	2.7	1.2	2.0	4.2	47.2	33.1	8.8	6.4	10.2	11.0	75.3	26.6	27.0	102.4	115.7	75.8	7.7	1.9	1.4	1.1	1.1	0.8	1.0	0.3	23.5	115.7
9	0.4	0.5	0.5	0.4	0.3	0.5	1.2	2.3	2.3	3.2	4.7	7.4	5.6	5.0	4.8	5.1	7.2	26.5	8.4	16.9	2.1	2.2	1.3	1.0	4.6	26.5
10	3.4	1.6	1.0	1.7	0.9	3.8	13.1	21.9	38.7	44.5	88.4	74.4	66.1	111.3	93.0	83.9	66.4	79.8	64.9	51.5	39.9	104.3	103.2	12.3	48.7	111.3
11	1.1	0.7	0.4	1.1	1.9	6.2	10.1	81.2	161.6	115.7	127.0	131.1	168.6	187.1	92.9	86.2	62.6	114.6	57.0	48.7	1.0	0.6	0.5	1.9	60.8	187.1
12	1.0	0.7	1.4	4.9	2.5	13.1	14.1	23.1	43.1	136.8	158.0	108.1	162.3	107.6	139.8	78.1	55.4	50.8	116.3	125.8	26.8	18.6	3.5	1.4	58.1	162.3
13	4.0	5.1	3.8	4.1	4.4	4.6	38.8	19.7	84.7	120.0	97.1	114.3	139.7	69.0	202.6	294.6	233.4	231.5	167.3	263.9	114.6	190.5	173.7	67.0	110.3	294.6
14	109.6	269.5	149.4	44.2	10.5	3.3	27.5	55.5	192.4	69.0	78.5	85.3	86.2	138.4	181.8	125.9	105.2	87.1	108.7	62.8	83.6	53.3	24.1	4.9	89.9	269.5
15	5.0	1.8	0.8	2.4	2.9	2.2	11.0	14.5	55.1	103.4	54.7	54.0	57.3	41.4	59.5	36.6	6.1	12.1	9.8	13.9	2.0	3.5	13.3	21.7	24.4	103.4
16	14.3	0.9	1.7	0.8	1.5	3.3	2.2	21.2	58.0	63.8	110.9	115.9	128.9	52.9	75.6	242.9	72.2	64.6	48.3	21.6	8.9	11.9	7.7	7.2	47.4	242.9
17	42.7	145.3	113.0	40.7	17.5	4.7	4.3	4.6	4.3	2.7	3.9	127.5	136.8	124.2	232.5	86.2	125.1	250.2	222.6	207.2	154.0	160.3	151.9	27.0	99.6	250.2
18	1.6	1.3	1.3	1.1	2.7	53.3	75.8	69.2	35.7	7.7	183.2	468.6	317.4	71.2	17.6	6.6	41.2	62.2	165.8	260.1	39.3	113.5	151.0	40.3	91.2	468.6
19	16.1	6.8	42.0	61.3	15.2	60.0	37.0	53.1	145.7	122.4	150.2	41.9	6.5	2.6	2.5	5.5	5.8	1.2	1.6	1.4	0.9	0.5	0.3	0.4	32.5	150.2
20	0.6	0.6	0.5	0.7	0.9	1.0	0.8	1.0	19.4	26.6	4.3	14.4	3.7	2.9	4.7	2.8	5.3	2.9	2.0	7.7	2.7	2.5	1.7	1.4	4.6	26.6
21	1.4	1.5	1.5	4.8	6.0	4.2	3.1	9.6	35.0	7.3	8.7	15.8	4.1	2.4	4.9	4.6	3.9	2.2	2.2	2.9	2.9	1.7	1.7	1.6	5.6	35.0
22	5.7	12.6	9.5	6.5	6.7	2.8	4.2	5.8	3.2	73.2	73.1	28.3	19.1	26.2	43.1	79.2	70.0	88.5	91.0	58.9	25.0	3.5	2.6	2.6	30.9	91.0
23	3.3	3.0	3.2	3.0	3.7	4.6	3.0	5.0	9.5	52.0	52.9	18.7	57.8	52.2	25.1	26.8	31.3	38.0	34.1	38.4	9.8	3.3	1.5	4.1	20.2	57.8
24	4.0	10.0	6.4	2.0	1.7	16.6	8.6	28.5	22.3	14.5	23.3	230.9	223.9	147.0	167.3	101.2	177.1	113.3	54.2	115.5	19.8	5.2	5.1	1.0	62.5	230.9
25	0.8	0.8	1.2	2.4	5.0	11.7	21.7	54.3	92.8	73.1	69.4	131.9	252.9	239.7	208.7	368.2	144.6	137.8	131.7	121.4	54.6	80.3	142.9	47.9	99.8	368.2
26	6.4	6.2	5.4	2.8	3.5	8.5	41.7	26.4	42.6	23.2	93.7	57.3	21.6	317.8	259.9	203.7	175.0	142.4	86.2	79.7	6.3	2.9	2.1	2.7	67.4	317.8
27	27.2	15.8	10.9	13.4	16.1	18.3	10.2	13.6	84.3	109.2	183.2	242.5	133.6	136.1	126.1	80.4	59.9	45.2	77.9	155.0	88.0	187.9	214.7	39.9	87.1	242.5
28	63.3	54.2	44.6	129.1	49.1	5.2	7.7	62.0	61.7	26.9	21.6	27.3	35.5	172.8	42.0	80.9	26.8	31.2	127.5	67.4	6.3	1.0	2.2	3.7	47.9	172.8
29	4.4	2.5	4.5	67.8	4.8	29.6	37.1	47.9	10.0	1.8	2.2	2.7	5.8	4.0	4.9	5.5	4.8	2.7	2.1	1.1	5.2	2.2	4.0	4.1	10.9	67.8
30	1.5	1.9	1.0	0.8	0.7	0.8	2.1	1.8	2.2	5.6	5.9	4.7	1.7	1.8	5.8	17.1	3.7	2.2	1.6	1.4	1.7	1.6	6.6	5.6	3.3	17.1
31	3.8	1.8	1.6	2.7	5.4	8.9	8.4	32.4	14.1	8.1	4.0	5.7	5.6	4.1	7.0	5.5	11.4	6.4	8.2	4.3	3.1	2.9	2.2	9.8	7.0	32.4
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	16.5	22.8	15.6	17.9	14.4	33.6	47.2	55.9	94.3	103.5	105.5	107.6	109.4	107.3	115.8	105.4	70.7	71.0	71.4	75.1	36.5	58.2	55.4	19.5		
MAX	109.6	269.5	149.4	129.1	116.7	362.5	814.8	761.1	1174.2	1221.6	709.7	516.8	503.8	615.5	710.7	433.9	271.0	250.2	266.4	286.9	180.5	398.7	392.8	184.2		



Number of Non-Zero Readings	744
Maximum 1-HR Average	1221.6 UG/M3
Maximum 24-HR Average	375.3 UG/M3
Monthly Calibration	0
Standard Deviation	114.1
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	63.8 UG/M3

Berm TSP (µg/m³) – May 2022

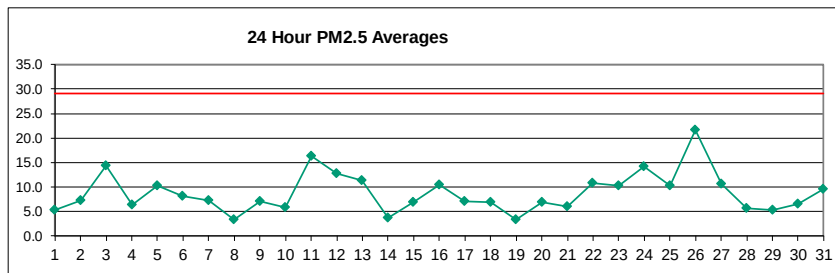
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	16.1	20.9	15.7	11.8	12.8	5.1	7.7	13.3	27.4	31.1	12.1	2.3	48.6	24.3	28.8	129.4	50.7	99.9	95.2	30.3	2.3	0.8	1.6	0.9	28.7	129.4
2	3.3	2.3	1.7	3.7	2.9	5.4	13.0	79.5	127.4	94.6	81.0	61.4	15.0	9.0	13.1	12.7	22.1	7.3	11.4	17.5	12.6	20.4	12.9	4.1	26.4	127.4
3	17.1	11.1	3.4	6.1	8.4	94.0	101.2	34.4	120.4	433.6	453.6	401.0	987.6	730.0	890.1	943.8	583.5	511.9	615.7	636.7	263.0	871.7	890.7	512.8	421.7	987.6
4	207.5	130.3	44.0	159.5	242.8	728.7	379.9	402.4	566.8	402.0	312.7	238.5	446.0	498.4	500.6	474.4	285.2	328.2	370.3	375.1	131.9	235.3	65.0	3.0	313.7	728.7
5	3.7	5.1	2.0	1.2	10.8	7.0	22.3	80.9	184.5	214.0	739.8	455.1	143.1	23.4	143.8	50.9	11.2	94.1	83.0	124.2	163.5	515.1	330.0	176.4	149.4	739.8
6	189.5	220.7	58.4	152.8	300.5	1292.9	2453.7	2436.1	2982.1	3168.4	2135.8	1540.5	1323.3	1550.7	1948.5	1235.5	647.5	199.2	152.6	158.1	429.4	426.2	363.4	50.5	1059.0	3168.4
7	3.2	9.4	4.6	8.6	5.3	25.3	36.9	28.0	68.7	469.5	280.4	166.5	144.8	12.4	113.1	91.2	91.2	62.7	60.6	9.8	12.4	2.7	4.5	6.0	71.6	469.5
8	3.2	1.4	2.7	4.5	39.3	27.2	12.2	12.1	10.5	20.5	131.4	39.3	42.1	193.3	180.3	159.4	23.1	2.3	1.1	0.7	0.7	0.5	0.8	0.2	37.9	193.3
9	0.3	0.3	0.3	0.3	0.2	0.3	0.8	1.7	1.6	2.8	7.5	8.8	6.6	7.1	12.3	9.9	10.6	54.3	10.7	29.0	2.1	1.4	2.4	0.7	7.2	54.3
10	3.3	4.2	0.9	3.2	0.9	3.7	34.3	57.5	92.5	130.7	249.1	220.2	178.1	312.0	187.1	188.5	166.4	191.1	184.6	138.8	121.2	315.2	306.7	35.8	130.3	315.2
11	1.2	1.0	0.3	1.6	1.8	5.7	13.6	184.8	356.2	311.2	228.4	290.1	390.1	439.4	182.8	213.4	135.9	249.1	138.7	116.0	3.0	0.5	0.3	2.6	136.2	439.4
12	1.0	0.5	1.3	6.3	4.4	27.8	27.2	48.6	77.0	329.3	378.7	228.7	383.1	233.3	305.9	172.8	112.9	91.7	258.2	297.6	53.7	54.3	5.2	2.5	129.3	383.1
13	4.2	6.4	5.3	5.6	6.4	8.4	96.9	29.5	227.7	317.5	208.0	244.2	392.3	152.0	503.9	864.9	618.7	627.5	455.6	859.5	301.9	538.4	553.0	168.5	299.8	864.9
14	171.8	301.3	136.3	62.1	24.7	6.9	72.1	107.8	431.0	147.6	149.6	152.6	174.1	311.3	492.3	274.2	254.6	211.4	274.5	132.1	145.6	61.5	38.5	6.7	172.5	492.3
15	15.5	3.8	1.0	1.7	4.2	2.1	25.8	16.0	95.7	202.8	149.3	100.6	108.0	78.7	138.1	70.2	14.0	29.5	18.8	34.2	2.5	4.8	28.1	78.5	51.0	202.8
16	45.5	1.2	4.7	1.3	6.5	7.2	3.3	53.8	139.2	133.7	226.4	283.6	280.8	127.7	158.9	569.2	197.0	143.4	100.9	45.7	18.9	11.2	7.2	11.9	107.5	569.2
17	59.1	224.9	138.5	59.7	12.9	4.8	9.6	7.4	6.4	4.4	6.6	330.0	417.3	289.7	638.7	197.2	327.3	687.7	616.3	572.1	434.4	431.0	414.8	41.8	247.2	687.7
18	1.4	1.2	1.3	0.7	2.4	113.4	143.2	95.0	55.8	13.2	528.1	1394.6	1093.0	214.2	39.6	12.7	117.0	176.1	628.4	999.1	104.4	349.3	432.7	85.6	275.1	1394.6
19	20.6	15.0	98.9	109.7	34.2	103.8	71.0	148.0	403.6	293.1	368.5	80.5	12.4	3.4	2.5	7.9	6.3	1.0	1.5	1.3	0.7	0.3	0.2	0.3	74.4	403.6
20	0.4	0.4	0.3	0.4	0.6	0.6	0.5	0.7	39.4	50.3	9.6	58.4	10.3	6.1	9.0	3.4	17.7	2.3	4.0	17.9	3.1	2.1	2.1	0.9	10.0	58.4
21	0.9	0.9	1.0	4.7	6.1	3.5	2.3	8.2	83.4	9.4	14.9	20.5	3.4	2.0	7.6	9.0	6.5	1.8	1.6	1.9	2.1	1.8	1.1	1.1	8.2	83.4
22	3.9	9.6	9.3	8.6	7.8	1.9	4.1	14.2	3.9	163.9	121.3	46.6	30.9	51.1	76.0	156.8	142.2	190.1	186.7	136.3	37.2	2.6	2.2	3.3	58.8	190.1
23	4.8	4.6	2.6	2.5	2.8	6.2	4.7	7.7	27.1	121.6	99.3	32.5	78.1	89.6	36.8	49.0	60.4	68.1	61.9	63.4	17.7	3.9	1.6	3.8	35.4	121.6
24	4.0	13.8	8.9	2.1	1.6	36.6	21.4	70.2	46.8	33.0	54.8	622.5	687.9	423.0	397.4	252.9	475.4	314.3	131.3	267.8	42.0	11.6	14.0	0.9	163.9	687.9
25	0.5	0.5	1.1	1.9	6.7	24.7	58.7	128.8	243.0	151.3	185.3	335.7	679.9	660.4	635.4	1153.8	481.9	455.8	395.2	378.8	132.9	236.5	371.9	112.9	284.7	1153.8
26	5.4	5.5	5.3	4.2	4.5	13.0	84.4	41.7	69.1	34.8	180.4	78.1	30.5	702.2	542.7	386.7	416.6	308.8	174.4	157.9	9.9	3.1	1.4	1.9	135.9	702.2
27	26.7	22.2	8.2	13.8	32.1	40.3	16.1	21.9	217.1	294.9	555.6	671.4	318.9	350.6	377.5	163.9	151.7	126.1	269.6	405.0	194.4	492.9	649.3	92.5	229.7	671.4
28	142.1	131.1	106.5	362.6	100.6	9.5	14.4	97.7	96.4	60.0	47.7	73.7	89.2	285.7	92.1	134.9	55.7	62.8	252.8	92.3	6.4	1.4	1.7	3.4	96.7	362.6
29	3.8	4.6	9.7	72.7	5.7	39.7	44.2	59.9	16.6	4.5	7.8	5.1	12.7	10.6	9.8	11.0	9.9	6.5	3.7	1.1	10.3	6.6	6.6	6.4	15.4	72.7
30	1.5	2.2	0.8	0.6	0.6	0.6	2.1	3.3	4.6	17.8	15.2	12.0	2.0	2.9	7.6	35.0	5.1	3.5	2.1	3.1	2.7	1.6	6.3	10.1	6.0	35.0
31	3.3	1.8	2.5	2.8	12.7	16.0	9.4	51.9	23.9	12.1	5.5	11.6	6.1	6.9	13.6	9.5	19.8	11.8	13.9	5.6	3.8	4.0	3.1	19.9	11.3	51.9
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	31.1	37.4	21.9	34.8	29.1	85.9	122.2	140.1	220.8	247.5	256.3	264.7	275.4	251.7	280.2	259.5	178.0	171.6	179.9	197.1	86.0	148.7	145.8	46.6		
MAX	207.5	301.3	138.5	362.6	300.5	1292.9	2453.7	2436.1	2982.1	3168.4	2135.8	1540.5	1323.3	1550.7	1948.5	1235.5	647.5	687.7	628.4	999.1	434.4	871.7	890.7	512.8		



Number of 24HR Exceedences	16	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	3168.4 UG/M3	
Maximum 24-HR Average	1059.0 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	309.1	Monthly Average
		744 HRS
		100.0 %
		154.7 UG/M3

Entrance PM_{2.5} (µg/m³) – May 2022

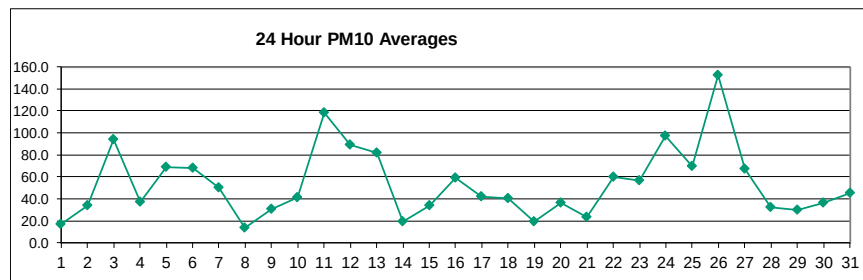
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.0	6.3	5.9	6.4	8.9	10.2	7.3	8.4	6.7	4.8	4.3	4.2	4.2	3.1	3.7	2.1	2.5	1.8	1.7	1.4	10.5	6.9	6.1	5.4	5.4	10.5
2	2.8	3.3	4.1	3.7	7.9	10.3	11.6	12.5	8.5	8.7	5.3	8.8	8.4	5.6	12.6	9.6	9.6	5.8	7.8	5.3	4.8	7.1	4.6	4.5	7.2	12.6
3	6.2	5.1	5.1	13.2	14.5	41.6	20.8	48.6	58.9	20.1	7.5	7.4	8.6	9.9	13.7	12.6	6.8	5.0	2.5	9.9	1.9	1.6	5.5	18.9	14.4	58.9
4	5.2	1.8	5.0	2.4	1.8	3.9	8.4	7.8	7.0	10.0	6.4	8.4	8.0	9.1	7.7	9.1	4.7	3.5	1.8	1.4	10.9	10.1	5.1	12.1	6.3	12.1
5	18.8	30.5	9.5	10.9	19.8	9.3	11.9	21.3	10.5	10.1	16.7	17.3	8.0	8.8	12.4	5.0	4.3	2.8	2.1	5.5	5.3	3.2	2.8	1.4	10.3	30.5
6	3.5	2.0	1.5	1.7	0.7	3.7	3.5	6.4	18.5	39.4	23.0	11.9	11.7	11.2	13.1	9.0	4.1	4.7	9.2	8.0	2.5	0.9	0.9	2.6	8.1	39.4
7	14.0	29.8	19.2	24.3	13.5	6.0	10.1	9.2	2.2	1.8	3.0	2.2	6.5	8.8	5.7	2.9	3.8	1.4	0.8	1.7	1.8	3.4	1.6	2.1	7.3	29.8
8	3.9	1.6	2.9	3.5	8.0	4.3	3.5	3.7	4.6	3.9	1.3	1.3	1.1	16.0	1.5	3.5	3.6	1.6	1.6	1.1	1.5	2.2	2.7	1.2	3.3	16.0
9	0.7	0.8	0.7	0.8	0.6	1.1	2.4	2.8	3.7	10.9	15.3	21.7	21.0	22.1	11.6	14.1	4.8	2.3	3.1	3.3	6.3	7.0	5.5	7.9	7.1	22.1
10	10.2	3.4	3.0	3.4	10.9	5.9	5.2	7.0	10.0	7.9	15.3	12.4	8.3	8.7	6.8	3.9	4.9	1.6	2.1	0.9	0.6	1.3	2.1	5.9	5.9	15.3
11	21.0	39.0	21.8	35.8	43.0	49.5	34.3	12.6	6.4	11.8	5.4	9.6	11.2	10.0	16.2	14.6	8.6	4.5	5.8	1.2	10.5	4.3	8.4	6.1	16.3	49.5
12	5.3	5.3	24.8	23.7	27.4	32.4	32.9	20.1	17.7	10.6	14.7	9.7	7.6	11.1	9.7	7.3	6.4	3.7	3.4	2.4	2.6	6.3	11.1	7.7	12.7	32.9
13	17.3	20.3	13.6	25.0	21.8	20.4	24.3	29.1	13.9	7.1	4.2	5.7	16.4	9.4	9.4	10.8	6.9	4.0	2.7	3.1	3.4	1.9	1.5	1.2	11.4	29.1
14	1.4	2.6	1.3	1.8	1.7	2.5	5.3	6.6	5.3	3.5	6.2	5.9	3.3	6.9	7.1	3.7	2.3	2.0	3.3	4.5	2.4	3.1	2.1	2.7	3.6	7.1
15	3.7	6.4	9.5	13.9	12.3	13.8	9.3	7.0	4.7	8.4	6.1	1.8	1.5	1.7	6.1	5.5	3.3	5.4	7.8	6.8	13.7	10.3	2.2	2.8	6.8	13.9
16	2.0	12.5	18.0	22.9	14.4	9.2	23.0	21.1	6.6	8.6	14.5	11.9	8.2	7.6	8.1	7.9	4.2	3.8	2.7	2.1	6.3	15.0	11.3	7.8	10.4	23.0
17	2.5	0.7	0.9	23.2	34.2	9.4	6.1	5.5	8.7	6.4	8.7	8.1	6.1	4.3	6.9	4.1	6.6	9.8	4.2	4.1	4.5	2.5	1.7	2.4	7.2	34.2
18	4.7	2.3	4.3	10.3	8.7	8.8	16.5	14.7	9.6	6.8	9.4	13.1	11.1	9.6	8.1	7.2	3.1	2.2	3.4	3.2	5.9	0.8	1.2	0.8	6.9	16.5
19	2.2	5.5	1.0	0.2	1.6	2.9	9.6	11.3	7.5	6.7	8.2	7.5	3.7	2.4	1.0	2.1	0.7	0.9	0.7	0.6	1.0	0.7	1.2	0.9	3.3	11.3
20	0.7	1.0	1.3	1.1	1.9	1.6	1.9	4.8	5.5	17.4	25.5	12.4	5.9	10.3	13.7	20.7	8.6	2.7	3.8	4.8	4.3	6.7	3.8	4.0	6.9	25.5
21	2.2	2.9	3.4	4.5	8.2	6.7	13.2	7.1	5.3	8.4	7.0	6.8	4.6	4.2	7.0	4.8	8.1	4.6	2.8	6.2	6.5	13.6	3.1	3.1	6.0	13.6
22	12.8	36.6	19.7	23.6	26.6	21.1	19.7	17.3	17.0	4.9	3.7	3.3	4.0	4.2	4.0	2.7	2.9	2.9	3.7	3.7	4.2	7.2	5.4	9.6	10.9	36.6
23	8.7	8.9	12.6	11.1	15.8	20.6	16.0	30.0	17.6	5.3	4.9	4.8	7.6	6.3	9.6	6.7	5.4	4.2	4.8	9.3	7.7	3.7	8.4	17.3	10.3	30.0
24	22.4	37.9	29.7	19.8	18.0	28.0	22.8	12.3	17.6	11.2	8.3	12.6	14.7	8.8	6.9	8.3	9.8	5.7	2.7	2.6	8.3	14.6	7.7	8.7	14.1	37.9
25	6.2	12.2	32.0	36.5	19.3	16.2	9.4	10.3	10.6	5.2	9.0	9.9	7.5	6.8	9.6	11.2	5.6	4.8	4.3	3.2	2.4	3.6	3.9	4.8	10.2	36.5
26	13.3	34.7	44.0	54.7	38.1	40.5	22.3	33.9	35.3	29.4	23.0	33.6	16.8	11.6	11.1	9.6	8.5	6.9	4.8	5.7	12.8	6.6	5.0	15.1	21.6	54.7
27	12.4	17.1	10.6	16.1	30.1	31.7	33.0	18.3	9.0	7.1	10.7	10.5	8.2	4.0	9.7	5.8	3.6	3.9	4.1	1.3	1.3	1.6	2.1	1.5	10.6	33.0
28	0.8	1.3	2.5	8.0	2.8	9.9	25.0	4.2	3.9	5.1	4.4	4.0	6.2	6.4	4.8	3.5	3.1	2.4	2.8	3.5	4.7	7.5	10.1	7.1	5.6	25.0
29	17.5	16.0	18.0	10.8	13.2	5.2	2.6	3.3	5.8	2.9	4.0	2.4	2.1	5.1	2.0	2.8	4.7	2.7	1.5	0.9	1.7	1.5	1.1	0.7	5.3	18.0
30	0.9	2.7	1.5	2.5	10.5	18.9	8.6	5.3	8.6	8.2	6.6	4.0	4.6	2.2	6.4	9.2	12.6	6.1	11.9	2.6	3.2	8.1	5.0	5.3	6.5	18.9
31	5.1	3.3	4.8	4.7	11.9	10.7	29.2	21.8	12.1	9.8	8.7	11.6	12.8	6.8	12.8	8.0	11.8	9.8	9.2	9.2	3.3	3.1	3.3	3.7	9.5	29.2
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	7.6	11.4	10.7	13.6	14.5	14.7	14.5	13.7	11.6	9.7	9.4	9.2	8.1	7.8	8.4	7.4	5.7	4.0	4.0	3.9	5.1	5.4	4.4	5.7		
MAX	22.4	39.0	44.0	54.7	43.0	49.5	34.3	48.6	58.9	39.4	25.5	33.6	21.0	22.1	16.2	20.7	12.6	9.8	11.9	9.9	13.7	15.0	11.3	18.9		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	58.9 UG/M3	
Maximum 24-HR Average	21.6 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	8.371	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		8.8 UG/M3

Entrance PM₁₀ (µg/m³) – May 2022

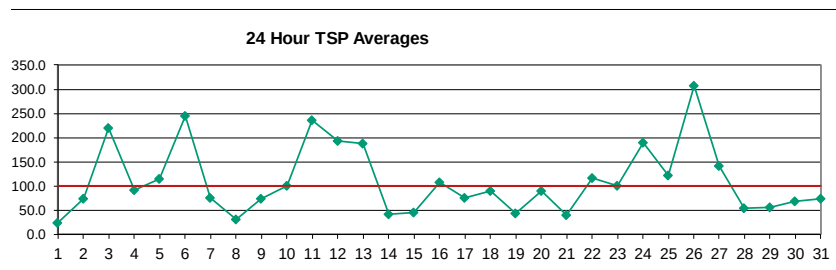
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	10.1	9.1	8.2	9.0	13.2	15.3	10.8	15.6	21.3	21.4	12.0	17.9	25.7	15.3	16.5	7.6	7.8	4.4	2.9	1.7	56.9	38.3	30.1	25.5	16.5	56.9
2	6.4	6.6	5.6	4.9	11.8	15.2	41.8	53.2	39.8	45.6	21.3	51.0	54.8	31.9	90.4	60.7	78.2	29.2	43.5	30.7	19.8	38.3	14.9	12.4	33.7	90.4
3	25.4	18.4	13.3	75.3	82.5	226.2	118.5	349.1	406.8	107.4	49.5	59.9	63.8	66.4	136.8	114.4	43.9	30.7	12.2	46.0	5.9	3.7	30.4	170.7	94.0	406.8
4	28.7	3.0	18.6	8.1	6.3	19.2	41.1	46.5	40.9	52.5	40.5	57.6	70.4	80.8	59.4	70.3	30.1	18.5	8.0	5.8	60.0	44.4	23.8	65.1	37.5	80.8
5	139.4	232.1	63.8	74.9	137.4	42.2	61.4	149.9	63.8	69.7	136.3	112.2	67.4	50.5	84.0	31.1	26.1	16.7	8.5	22.2	27.7	21.9	13.7	6.5	69.1	232.1
6	23.0	9.5	7.5	11.5	3.6	37.1	28.3	54.8	187.1	432.7	205.9	93.8	91.5	88.8	106.4	61.6	22.1	24.7	60.5	51.7	9.5	1.9	1.2	13.8	67.9	432.7
7	116.5	251.4	144.5	190.1	93.7	31.8	57.0	56.0	11.3	8.8	19.7	9.0	55.2	60.0	35.5	14.7	9.2	4.3	2.2	7.5	6.5	13.5	3.9	6.0	50.3	251.4
8	7.0	2.6	4.4	5.2	34.0	18.9	13.2	17.5	23.3	19.9	5.8	5.2	2.7	90.9	3.1	20.2	33.5	5.2	2.3	1.3	1.7	2.8	3.9	1.7	13.6	90.9
9	1.0	1.0	0.7	0.8	0.6	1.3	2.8	3.3	4.5	31.8	53.8	122.6	100.6	131.0	65.9	72.8	25.7	13.7	17.1	18.2	10.2	10.4	8.2	47.2	31.1	131.0
10	66.1	18.7	8.6	17.9	78.7	27.8	37.1	56.7	79.8	65.3	125.9	93.0	63.1	65.5	49.5	28.1	41.1	12.7	11.4	4.2	2.0	3.6	6.4	30.2	41.4	125.9
11	136.6	310.2	142.8	244.3	327.3	342.9	271.1	87.5	48.3	72.7	38.6	68.6	85.1	79.6	118.2	109.4	71.1	31.2	34.8	4.2	82.2	26.3	69.2	41.5	118.5	342.9
12	24.5	31.9	177.0	170.7	184.9	228.0	273.0	139.0	120.7	72.8	104.5	68.4	59.1	87.8	73.6	51.2	42.1	25.7	20.7	11.2	10.6	38.2	77.4	51.6	89.4	273.0
13	134.4	152.1	90.8	178.0	156.1	134.4	163.0	211.9	110.1	49.8	21.1	36.3	152.4	70.9	76.9	88.3	54.2	31.2	16.0	15.1	13.0	8.8	4.7	3.3	82.2	211.9
14	5.5	10.7	4.3	5.3	4.9	9.7	37.0	45.9	29.8	21.6	40.0	35.9	18.6	48.3	46.8	18.7	11.3	9.5	11.7	18.1	7.8	11.9	7.8	7.2	19.5	48.3
15	15.7	28.3	57.7	86.5	57.5	65.0	44.4	29.1	19.5	38.7	35.5	7.9	7.2	6.6	32.3	25.7	11.7	21.4	44.3	33.8	66.9	56.2	8.1	13.6	33.9	86.5
16	7.9	53.7	81.8	117.2	74.6	41.4	131.1	141.4	45.2	62.4	55.7	60.0	71.3	47.7	53.5	67.5	27.8	27.3	17.2	13.9	36.3	83.2	61.9	38.2	59.1	141.4
17	10.0	2.1	3.6	142.1	225.3	64.9	40.3	32.6	53.9	35.9	53.6	60.7	48.6	22.5	49.0	18.6	27.0	36.7	18.5	18.0	18.3	10.5	3.2	6.4	41.8	225.3
18	21.8	4.7	12.6	50.4	49.5	42.3	93.2	93.2	59.9	36.8	62.2	116.7	100.5	64.3	23.1	20.5	14.8	10.6	25.7	22.0	41.8	3.8	4.3	3.0	40.7	116.7
19	11.4	33.5	4.8	0.4	7.2	14.8	54.2	76.4	57.8	49.4	58.1	46.0	22.6	12.5	1.6	3.0	0.9	1.3	1.0	0.8	1.3	0.9	1.3	1.0	19.2	76.4
20	0.8	1.1	1.4	1.2	2.5	1.8	5.1	22.4	35.0	110.2	177.1	73.2	34.9	60.3	76.6	116.5	44.1	5.3	11.1	16.2	19.5	27.4	9.5	10.3	36.0	177.1
21	2.4	3.5	4.1	6.4	12.1	9.6	37.6	26.6	22.9	55.7	33.9	33.3	20.1	13.6	38.2	18.8	45.9	20.1	4.8	40.3	41.2	56.8	5.9	6.0	23.3	56.8
22	67.1	269.8	104.7	137.8	157.4	107.7	107.4	110.7	106.9	23.6	14.5	10.1	16.1	16.2	11.9	6.0	9.7	7.6	11.4	9.4	12.0	37.8	23.0	53.0	59.7	269.8
23	44.7	55.2	66.1	53.3	88.9	139.6	100.9	204.0	104.1	23.3	19.5	16.7	38.7	32.7	52.9	31.6	28.8	15.9	19.4	42.7	28.6	12.6	35.3	104.5	56.7	204.0
24	140.4	294.2	201.9	143.8	113.3	218.6	152.5	74.5	113.4	78.4	58.2	101.1	115.2	61.1	49.9	54.0	70.1	39.9	11.5	10.5	45.7	86.9	40.1	56.7	97.2	294.2
25	39.4	91.6	257.3	293.7	130.8	110.0	59.1	55.4	61.6	25.2	50.0	64.3	53.9	54.4	66.0	95.6	39.4	30.9	26.0	15.6	8.5	14.1	12.7	14.7	69.6	293.7
26	68.3	260.7	362.0	464.4	271.7	311.1	175.9	240.2	236.6	189.5	134.5	222.5	114.4	94.6	78.5	63.1	58.3	32.2	16.5	25.4	82.0	29.2	18.6	100.7	152.1	464.4
27	46.5	89.2	52.1	106.7	185.6	193.7	228.8	125.2	48.9	48.7	91.5	92.5	62.0	31.3	84.6	33.2	23.5	23.6	16.0	5.5	3.8	5.7	9.6	3.7	67.2	228.8
28	1.4	4.4	10.4	74.9	12.3	49.3	138.9	19.8	19.8	29.3	21.8	21.0	35.3	50.2	35.6	15.7	11.5	7.7	8.7	14.3	27.5	48.1	71.5	38.0	32.0	138.9
29	114.2	121.7	99.8	48.1	57.1	16.4	7.1	16.5	31.8	19.4	22.6	13.9	12.2	30.7	10.9	15.8	33.6	15.6	6.4	2.4	6.7	7.0	2.9	1.3	29.8	121.7
30	1.4	10.9	3.5	10.5	64.0	136.8	52.7	31.3	52.0	48.2	31.7	23.9	20.8	3.9	32.1	50.6	88.0	35.2	81.9	8.9	11.8	50.4	10.7	7.7	36.2	136.8
31	7.1	4.6	23.7	7.0	17.6	15.9	43.8	93.1	80.6	71.0	57.7	72.1	92.9	43.9	89.4	46.7	74.1	69.7	63.5	58.1	11.9	10.9	14.7	15.4	45.2	93.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	42.7	77.0	65.7	88.4	85.9	86.7	84.8	86.4	75.4	65.1	59.8	60.2	57.3	52.1	56.4	46.2	35.7	21.2	20.5	18.6	25.1	26.0	20.3	30.9		
MAX	140.4	310.2	362.0	464.4	327.3	342.9	273.0	349.1	406.8	432.7	205.9	222.5	152.4	131.0	136.8	116.5	88.0	69.7	81.9	58.1	82.2	86.9	77.4	170.7		



Number of Non-Zero Readings	744
Maximum 1-HR Average	464.4 UG/M3
Maximum 24-HR Average	152.1 UG/M3
Monthly Calibration Standard Deviation	0 63.56
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	53.7 UG/M3

Entrance TSP (µg/m³) – May 2022

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	15.5	8.8	6.3	7.2	12.6	15.5	10.3	18.7	44.8	53.2	18.6	43.5	55.2	32.9	27.2	20.1	9.3	5.9	3.4	1.1	63.4	46.8	39.8	34.2	24.8	63.4
2	12.1	6.6	5.0	4.2	12.8	16.5	78.7	101.2	67.3	83.0	36.0	117.0	131.0	91.2	243.6	169.5	215.4	57.1	99.4	66.4	35.9	70.5	34.2	19.3	73.9	243.6
3	35.3	26.2	20.2	99.9	114.0	514.2	319.8	774.5	837.9	222.3	150.4	149.3	170.9	162.9	389.0	325.7	119.6	75.4	40.2	66.4	16.3	14.0	100.6	555.1	220.8	837.9
4	99.5	9.1	33.3	31.6	20.4	54.6	78.7	100.3	123.7	118.2	112.8	156.8	222.8	244.7	182.3	212.4	62.6	42.6	18.3	24.6	73.3	62.5	30.3	75.9	91.3	244.7
5	151.9	265.0	52.5	89.3	147.0	47.3	84.7	204.9	89.5	134.3	306.1	278.6	234.5	111.2	163.3	83.4	60.6	30.4	13.9	35.7	65.1	72.5	26.1	18.1	115.2	306.1
6	64.3	40.2	12.0	44.0	15.9	126.9	116.0	252.2	755.5	1565.1	797.9	353.4	327.3	328.8	383.9	226.7	75.9	55.7	162.2	120.8	26.7	6.4	1.3	19.6	244.9	1565.1
7	119.0	255.5	143.1	308.6	140.1	48.7	84.7	113.0	22.0	20.8	41.1	20.6	143.2	112.9	110.2	22.7	19.8	7.9	4.3	17.4	14.2	25.2	9.4	10.5	75.6	308.6
8	8.4	4.0	4.5	5.5	87.6	44.3	35.4	28.1	45.7	40.9	12.5	7.8	5.2	185.4	4.9	55.0	134.8	11.9	2.3	0.9	1.1	2.4	4.4	1.7	30.6	185.4
9	0.8	0.8	0.4	0.5	0.4	0.9	1.8	2.2	3.1	74.4	117.1	306.5	265.4	336.6	185.6	204.4	55.8	45.8	28.8	28.1	12.6	11.4	9.3	88.5	74.2	336.6
10	138.4	44.8	9.8	34.0	97.2	42.7	95.5	152.7	215.6	164.2	379.5	241.5	177.1	173.6	126.4	70.4	104.4	38.2	28.0	13.6	4.5	3.4	10.3	48.0	100.6	379.5
11	251.9	410.2	228.3	432.3	639.0	656.3	696.5	203.7	128.1	200.9	102.1	168.9	193.9	231.0	227.6	205.9	167.9	79.3	71.8	13.6	125.7	50.1	101.6	85.8	236.4	696.5
12	31.6	69.9	352.8	369.6	397.3	517.5	670.5	285.5	242.0	161.1	237.2	145.5	138.4	197.9	156.9	125.8	96.7	62.1	49.6	27.7	17.3	60.4	141.0	84.5	193.3	670.5
13	277.0	287.1	226.2	406.8	352.3	289.2	353.6	368.4	233.4	139.2	39.1	76.9	445.3	165.3	205.1	265.4	181.8	80.6	37.7	37.2	18.4	20.1	8.1	6.5	188.4	445.3
14	9.0	15.4	9.5	7.7	5.1	14.9	90.7	89.9	49.6	47.2	91.9	74.8	45.4	112.3	114.1	62.0	31.5	22.2	26.3	26.9	12.0	17.5	15.2	8.4	41.6	114.1
15	17.4	29.2	73.5	111.5	67.1	75.7	56.7	32.0	25.4	60.2	67.6	14.3	21.3	18.6	50.5	38.4	19.1	26.7	55.7	43.1	77.6	65.3	12.5	29.7	45.4	111.5
16	19.7	70.5	126.8	183.2	110.8	60.7	208.9	244.6	108.7	138.6	85.7	116.2	156.1	83.1	100.0	176.3	62.2	63.5	36.5	29.5	57.3	168.2	114.9	79.8	108.4	244.6
17	15.8	6.5	9.6	160.9	340.4	96.2	79.2	74.6	99.9	65.8	118.6	163.6	129.5	49.1	118.1	38.2	54.3	69.8	41.2	34.8	37.0	19.9	3.2	7.4	76.4	340.4
18	26.3	6.7	12.8	57.7	56.5	64.3	136.3	160.5	101.1	84.6	137.5	359.5	345.6	156.7	40.0	25.8	42.0	34.3	97.9	68.8	120.2	8.1	11.8	5.8	90.0	359.5
19	25.8	86.7	11.1	0.6	8.9	24.4	117.7	181.6	161.1	112.1	150.1	84.3	34.2	24.9	1.7	3.0	0.7	1.2	1.0	0.6	1.1	0.6	0.9	0.7	43.1	181.6
20	0.5	0.8	0.9	0.9	1.9	1.2	11.3	37.4	85.5	156.0	451.0	274.4	125.5	180.5	226.9	250.2	141.0	11.3	25.7	46.4	39.5	38.4	11.3	22.7	89.2	451.0
21	1.5	2.5	3.4	6.0	12.9	9.2	74.7	39.4	48.2	96.3	65.7	60.3	46.9	16.2	97.8	38.4	96.5	36.6	5.3	66.2	53.4	64.8	5.7	7.8	39.8	97.8
22	132.2	594.5	182.5	313.9	317.6	149.8	218.8	225.6	209.7	60.6	42.0	17.0	26.9	29.4	23.2	9.5	18.5	14.3	21.9	13.8	15.8	45.4	34.3	68.2	116.1	594.5
23	63.3	99.5	83.9	67.8	184.4	336.4	207.4	405.6	200.2	54.7	43.7	27.8	59.1	56.8	84.4	59.5	57.8	23.8	23.2	40.6	35.1	17.6	40.1	122.3	99.8	405.6
24	217.9	524.6	336.2	280.9	229.6	407.7	281.9	164.1	197.3	143.4	128.1	240.1	314.2	174.1	131.0	114.9	173.9	100.5	23.0	20.5	60.7	145.4	84.8	76.0	190.5	524.6
25	57.6	123.0	243.9	306.0	205.3	247.8	117.1	99.0	115.4	51.3	101.2	127.9	136.7	141.2	174.3	268.6	99.2	109.1	85.6	46.5	19.6	22.9	18.0	18.6	122.3	306.0
26	70.1	545.8	827.4	1131.3	465.6	690.1	414.1	493.4	423.6	315.5	217.9	378.4	267.6	261.2	162.8	146.2	128.6	52.6	26.3	38.7	102.8	56.8	34.4	105.1	306.5	1131.3
27	60.9	128.1	73.2	346.1	259.1	333.9	429.7	253.7	115.8	116.9	240.4	264.3	149.8	83.2	266.6	70.2	51.6	53.6	31.7	15.8	5.3	9.7	27.4	7.6	141.4	429.7
28	3.2	12.3	19.9	203.5	24.1	58.2	181.7	44.0	33.8	50.0	44.5	41.7	96.6	101.8	68.3	28.7	17.0	12.8	11.5	17.8	32.9	57.7	91.8	55.0	54.5	203.5
29	194.0	249.2	183.0	73.5	67.9	15.8	7.4	27.0	55.3	47.9	51.1	36.4	24.5	54.1	28.6	33.3	94.1	32.1	11.7	2.9	10.6	19.9	6.9	3.3	55.4	249.2
30	1.3	11.2	5.5	16.1	78.8	167.0	90.6	58.1	104.9	124.2	86.9	89.4	38.3	9.1	71.4	97.0	211.7	68.2	185.1	18.0	18.4	68.6	15.3	6.8	68.4	211.7
31	5.9	3.9	38.6	8.4	18.9	17.3	50.5	147.0	169.0	159.9	103.2	144.0	128.8	78.8	174.9	76.7	110.3	125.1	86.3	70.9	14.2	14.2	21.3	20.8	74.5	174.9
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	68.7	127.1	107.6	164.8	144.9	166.0	174.2	173.6	164.9	156.9	147.7	147.8	150.2	129.2	140.0	113.7	87.6	46.8	43.7	34.0	38.3	41.5	34.4	54.6		
MAX	277.0	594.5	827.4	1131.3	639.0	690.1	696.5	774.5	837.9	1565.1	797.9	378.4	445.3	336.6	389.0	325.7	215.4	125.1	185.1	120.8	125.7	168.2	141.0	555.1		



Number of 24HR Exceedences	13	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	1565.1 UG/M3	
Maximum 24-HR Average	306.5 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	144.0	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		110.8 UG/M3