

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

NOVEMBER 2021

DECEMBER 21, 2021





AMBIENT AIR QUALITY MONTHLY REPORT

NOVEMBER 2021

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: DECEMBER 21, 2021

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December 21, 2021

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – November 2021

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 November 2021.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	98.6%	-	1
PM _{2.5}	98.5%	0	0
PM ₁₀	99.7%	-	-
NO	99.6%	-	-
NO ₂	99.6%	0	-
NO _x	99.6%	-	-
SO ₂	97.5%	0	0
Met Parameters	100.0%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Windridge Station for November 2021.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	98.8%	-	-	15
PM_{2.5}	99.0%	1	0	-
PM₁₀	99.2%	-	-	-

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 November 2021.

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	28.6%	0	0	0
Berm	35.4%	6	2	8
Entrance	71.4%	1	0	15

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.
Team Leader, Environmental
Management, Vancouver Office

SIGNATURES

PREPARED BY



December 21, 2021

Rowena Seto, B.Sc.
Junior Air Quality Specialist, Environment

Date

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



December 21, 2021

Tyler Abel, M.Sc.
Team Leader, Environmental Management,
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Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB. 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 November 1, 2021 and November 30, 2021.

This monthly report was prepared by Rowena Seto, Junior Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Team Leader of Environmental Management in the Vancouver Region at WSP.

1.1 EXSHAW CREEK FLOOD MITIGATION

Due to flood mitigation construction at Exshaw creek (Figure 1), 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.



Figure 1 Photo of Completed Flood Mitigation Work at Exshaw Creek

1.2 FUGITIVE DUST CONTRIBUTIONS FROM LAC DES ARCS

In the past, Lafarge environmental staff have noted the potential contributions of fugitive dust in the airshed from the exposed lake bed of Lac Des Arcs, immediately southwest of the Lafarge plant site. In some months of the year, low water levels have left more of the lake shore/bed exposed. During high wind events, the sediments from the exposed lake bed can be re-suspended, dispersed in air and become a significant source of fugitive dust impacting the community. This additional source of fugitive dust in the airshed would have an impact on ambient concentration of particulate matter at the monitor and exacerbate any dust originating from the plant site itself.

In November 2021, Lafarge environmental staff noted that water levels were low enough that the lake bed was exposed (Figure 2), therefore being a potential source of fugitive dust this month.



Figure 2 Photo of Lac Des Arcs (October 2021)

2 NOVEMBER 2021 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 the stations 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)	99.6	26.8	0	11.6	-
SO ₂ (ppb)	97.5	10.7	0	4.7	0
PM _{2.5} (µg/m ³)	98.5	37.1	0 ¹	8.5	0
PM ₁₀ (µg/m ³)	99.7	465.9	-	99.9	-
TSP (µg/m ³)	98.6	961.5	-	169.4	1
Temperature (°C)	100.0	12.3	-	8.5	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	52.9/W	-	42.8/WSW	-
Precipitation (mm)	100.0	3 ²	-	15.5 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 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 meteorological sensors recorded 100.0% uptime for the month of November.
- NO₂ recorded 99.6% uptime due to three hours of operator error that occurred on November 1st from 12:00 to 14:00.
- SO₂ recorded 97.5% uptime due to eighteen hours of equipment change from November 1st at 16:00 to November 2nd at 09:00.
- TSP recorded 98.6% uptime due to nine hours of equipment malfunction that occurred on November 15th from 05:00 to 13:00 and one hour of power outage on November 17th at 02:00.
- PM₁₀ recorded 99.7% uptime due to one hour of equipment malfunction on November 15th at 13:00 and one hour of power outage on November 17th at 02:00.
- PM_{2.5} recorded 98.5% uptime due to ten hours of equipment malfunction that occurred on November 15th from 04:00 to 13:00 and one hour of power outage on November 17th at 02:00.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	99.0	135.0	1*	17.0	0
PM ₁₀ (µg/m ³)	99.2	485.0	-	230.3	-
TSP (µg/m ³)	98.8	985.0	-	343.1	15

* 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 one hour exceeding the 1-hour PM_{2.5} AAAQG.
- There were 15 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The TSP monitor recorded 98.8% uptime due to nine hours of equipment malfunction that occurred on November 15th from 13:00 to 14:00 and November 16th from 06:00 to 12:00.
- The PM₁₀ monitor recorded 99.2% uptime due to six hours of equipment malfunction that occurred on November 10th at 00:00, November 12th at 04:00, and November 15th at 00:00, 06:00, 11:00, 13:00.
- The PM_{2.5} monitor recorded 99.0% uptime due to seven hours of equipment malfunction that occurred on November 15th at 13:00 and November 18th from 08:00 to 13:00.

2.3 WEST GRIMM

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

Table 2-3 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	28.6	8.4	0*	5.2	0
PM ₁₀ (µg/m ³)	28.6	11.2	-	6.6	-
TSP (µg/m ³)	28.6	11.4	-	5.7	0

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- The analyzer had 28.6% uptime for the month of November due the GRIMM monitor being removed for annual calibration and maintenance from November 9th at 15:00 to November 30th at 23:00.

2.4 BERM GRIMM

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

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)	35.4	129.3	6*	45.8	2
PM ₁₀ (µg/m ³)	35.4	889.3	-	321.5	-
TSP (µg/m ³)	35.4	2798.4	-	1078.6	8

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

Data Quality Notes:

- There were 2 exceedances of the 24-hour PM_{2.5} Guidelines.
- There were 6 exceedances of the 1-hour PM_{2.5} Guidelines.
- There were 8 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 35.4% uptime during the month of November due to the GRIMM monitor being removed for annual calibration and maintenance (returned to operation November 9th at 16:00), and equipment malfunction from November 20th at 07:00 to November 30th at 23:00.

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)	71.4	132.6	1*	20.9	0
PM ₁₀ (µg/m ³)	71.4	1198.7	-	135.9	-
TSP (µg/m ³)	71.4	2902.9	-	523.4	15

* 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 was one exceedance of the 1-hour PM_{2.5} Guidelines.
- There were 15 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 71.4% uptime for the month of November due to the GRIMM monitor being removed for annual calibration and maintenance (returned to operation as of November 9th at 15:00).

3 LAGOON STATION

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

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-9) and tables and graphs illustrating the monitoring results for November 2021.

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 November 16 th . The monitor had 98.5% uptime due to ten hours of equipment malfunction that occurred on November 15 th from 04:00 to 13:00 and one hour of power outage on November 17 th at 02:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on November 16 th . The monitor 99.7% uptime due to one hour of equipment malfunction on November 15 th at 13:00 and one hour of power outage on November 17 th at 02:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on November 16 th . The monitor had 98.6% uptime due to nine hours of equipment malfunction that occurred on November 15 th from 05:00 to 13:00 and one hour of power outage on November 17 th at 02:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on November 2 nd . The monitor had 99.6% uptime due to three hours of operator error that occurred on November 1 st from 12:00 to 14:00.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on November 1 st and 2 nd . The monitor had 97.5% uptime due to eighteen hours of equipment change from November 1 st at 16:00 to November 2 nd at 09:00.

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

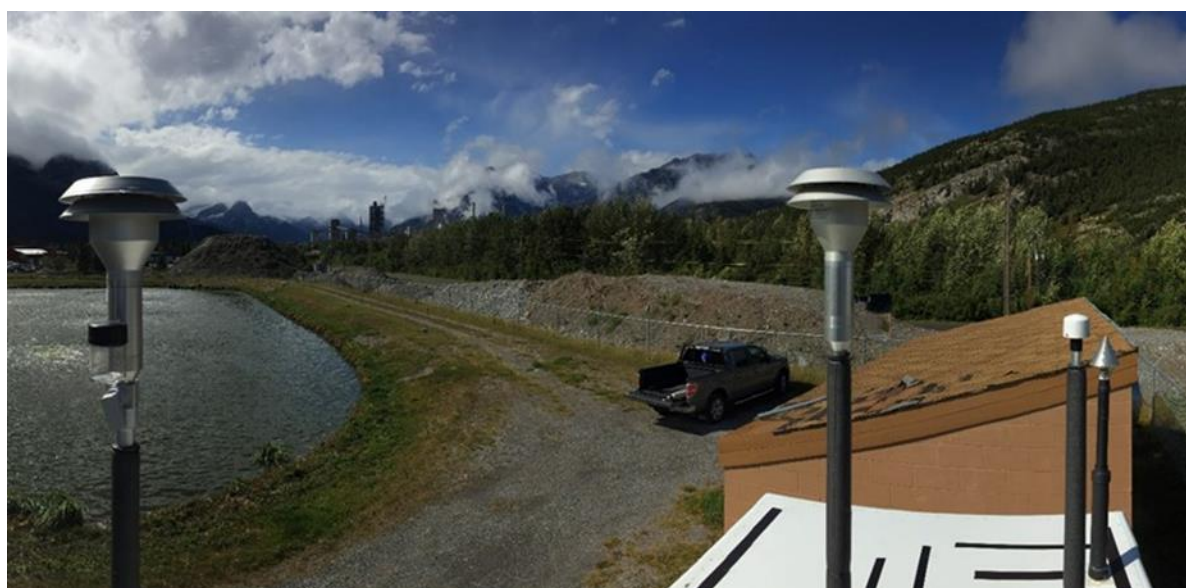


Figure 3-1 Inlets on the top of WSP's Lagoon monitor

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in November 2021. Table 3-3 summarizes the recorded exceedances at the Lagoon station. 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 November 2021 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There was 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 November, 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 have 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 November 2021 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	-	0.7	6.7	26.8	24	9	8.1	241.3	11.6	12	99.6
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	2.1	10.7	24	21	45.5	265.3	4.7	9	97.5
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	3.1	37.1	20	9	39.6	263.3	8.5	20	98.5
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	26.2	465.9	20	9	39.6	263.3	99.9	20	99.7
TSP (µg/m ³)	-	100	Lagoon	-	1	0.0	39.4	961.5	20	9	39.6	263.3	169.4	20	98.6
Temperature (°C)	-	-	Lagoon	-	-	-10.1	1.7	12.3	4	16	34.1	253.0	8.5	5	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	3.7	24.1	52.9/W	25	7	52.9	250.5	42.8/WSW	30	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	3.0	15	21	19.3	259.4	15.5		100.0

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

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Lagoon						
2021-11-20	169.4	-	271.0	30.3	51.0	High wind event
Total # of Exceedances	1	0				
Maximum # of Exceedances (November)	2 (2010)	0 (2010 - 2020)				
Average # of Exceedances (November)	0	0				
Minimum # of Exceedances (November)	0 (2011, 2012, 2013, 2014, 2016, 2017, 2019)	0 (2010 - 2020)				

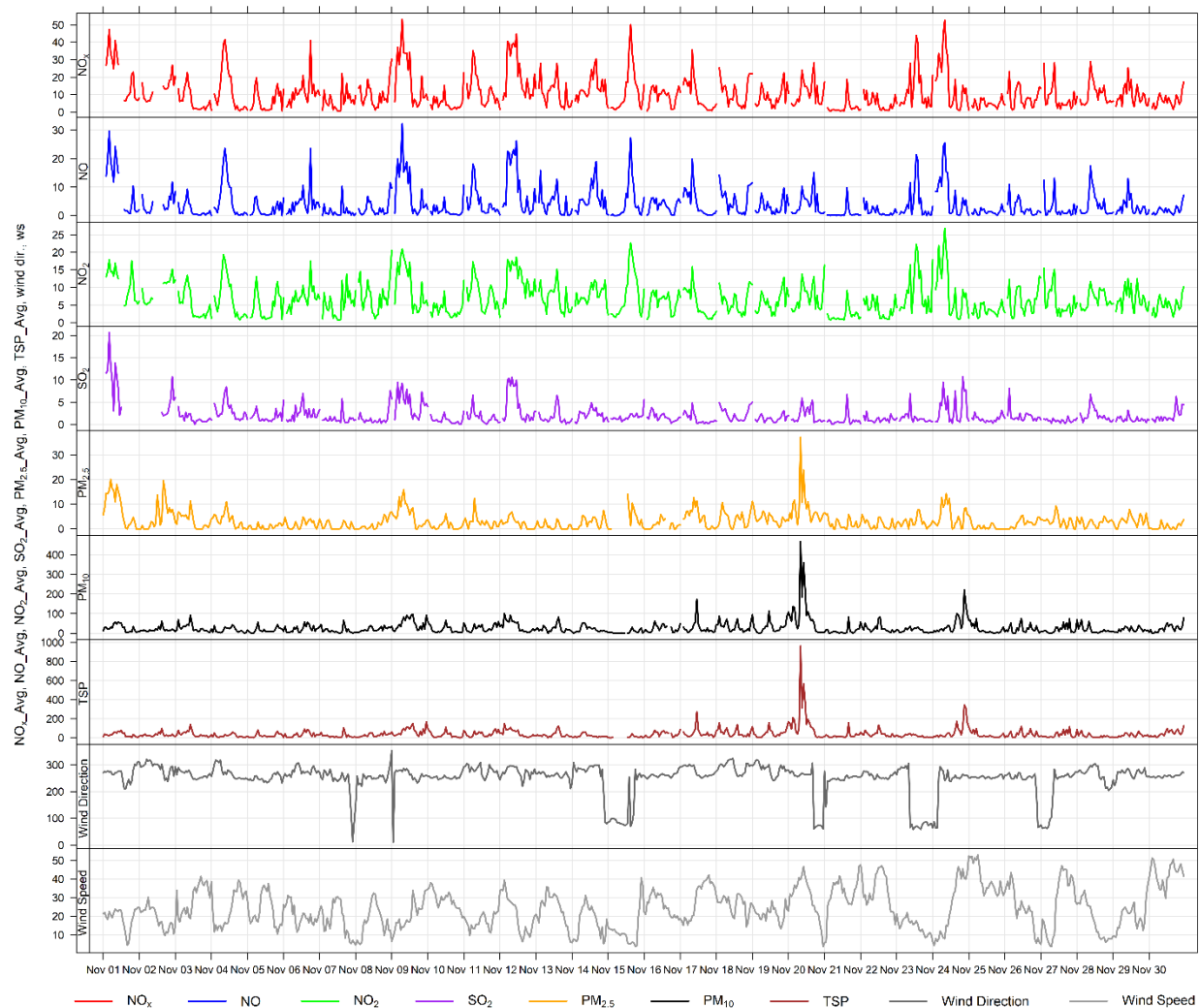


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

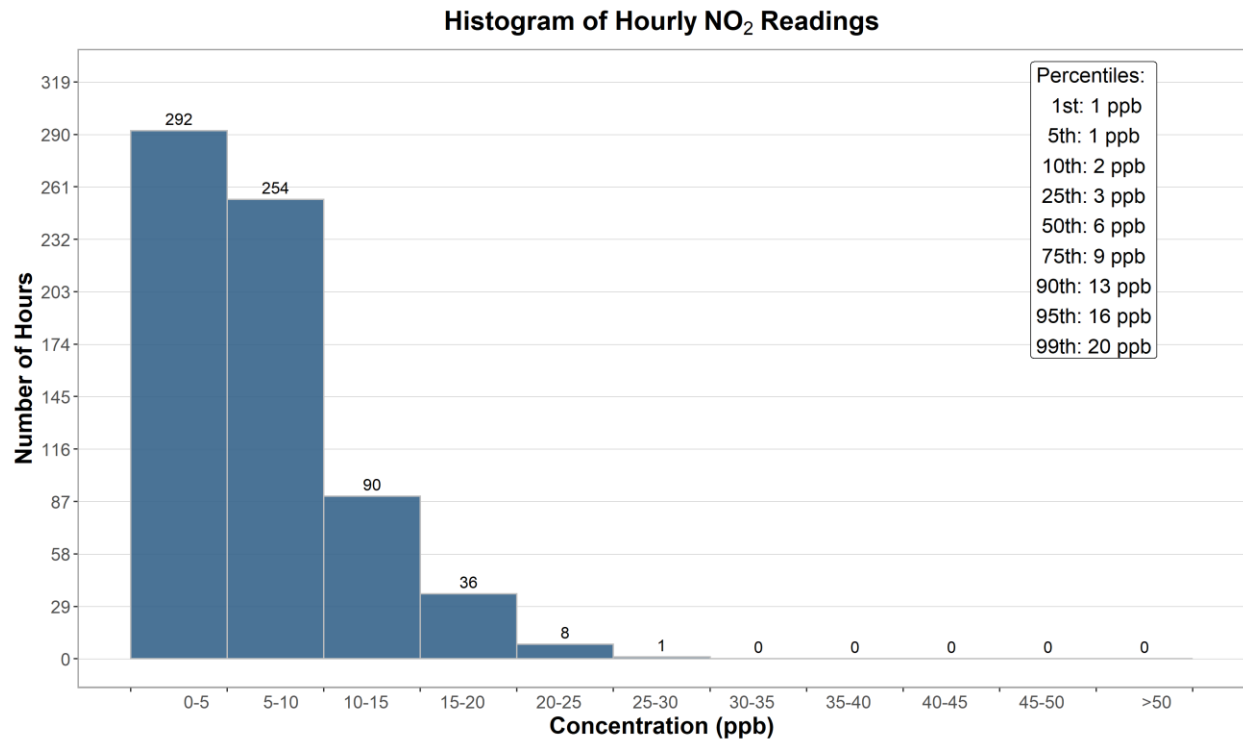


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

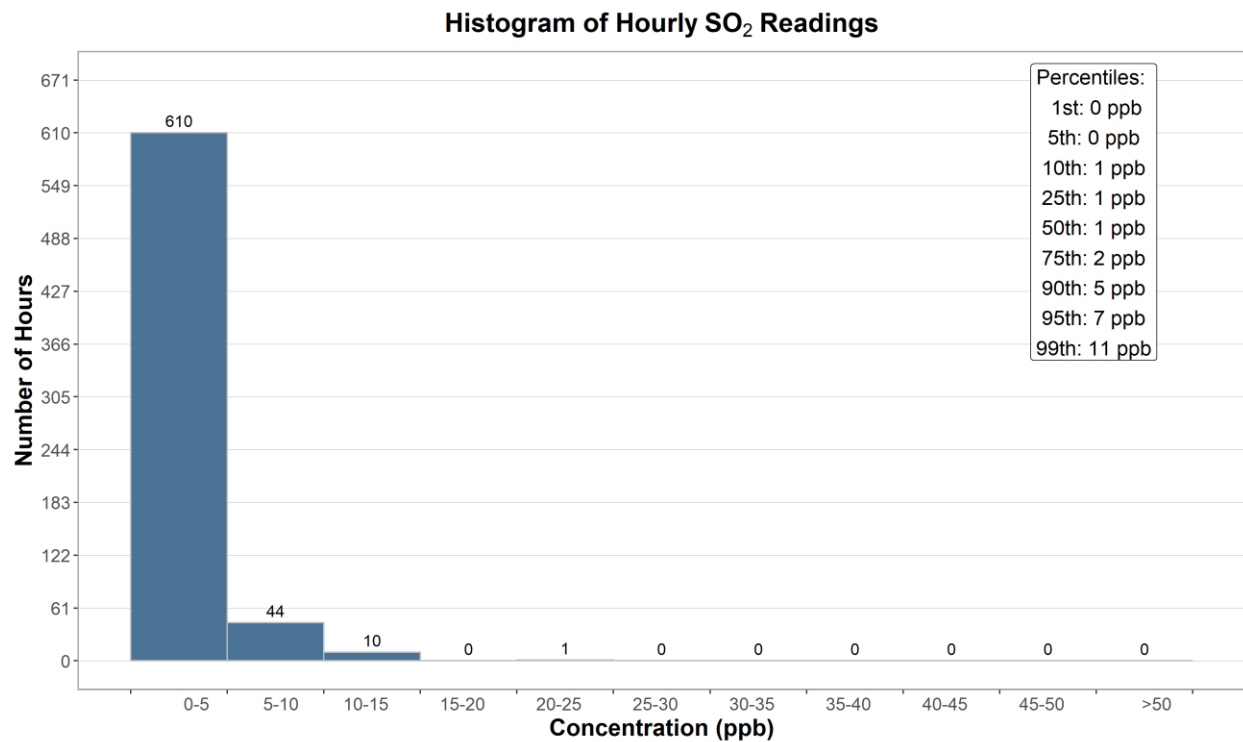


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

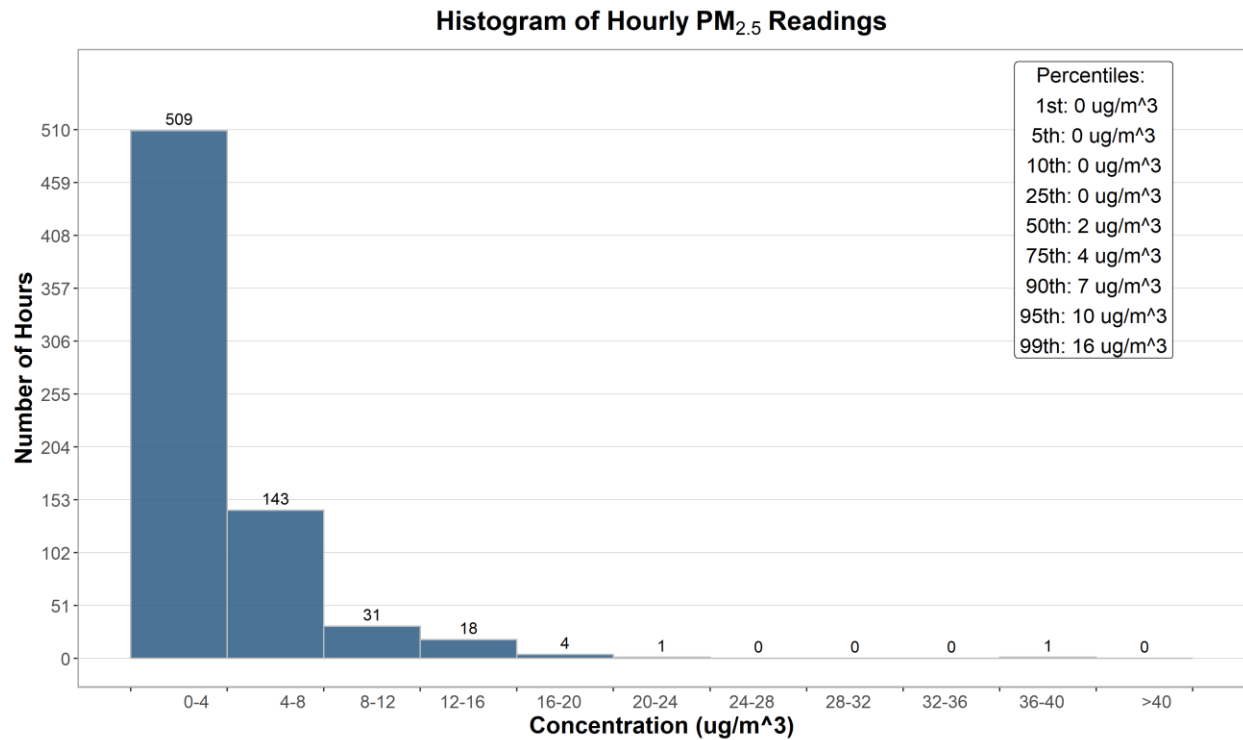


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

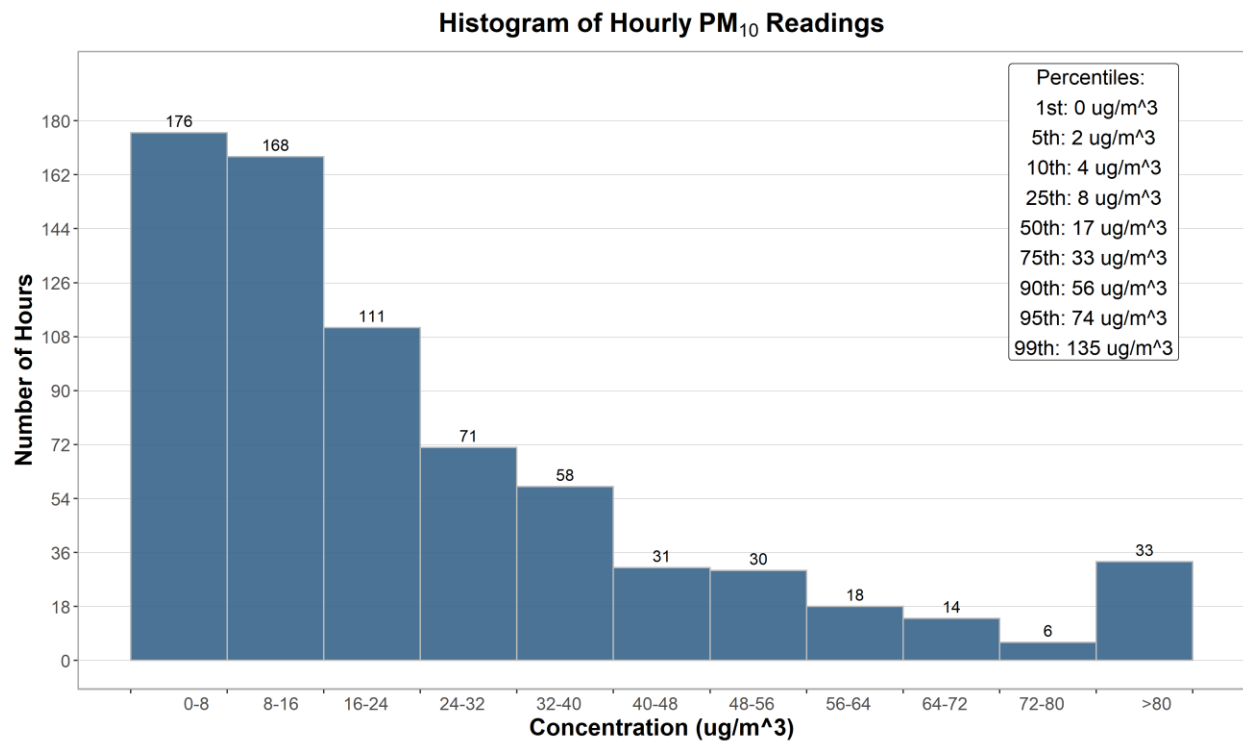


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

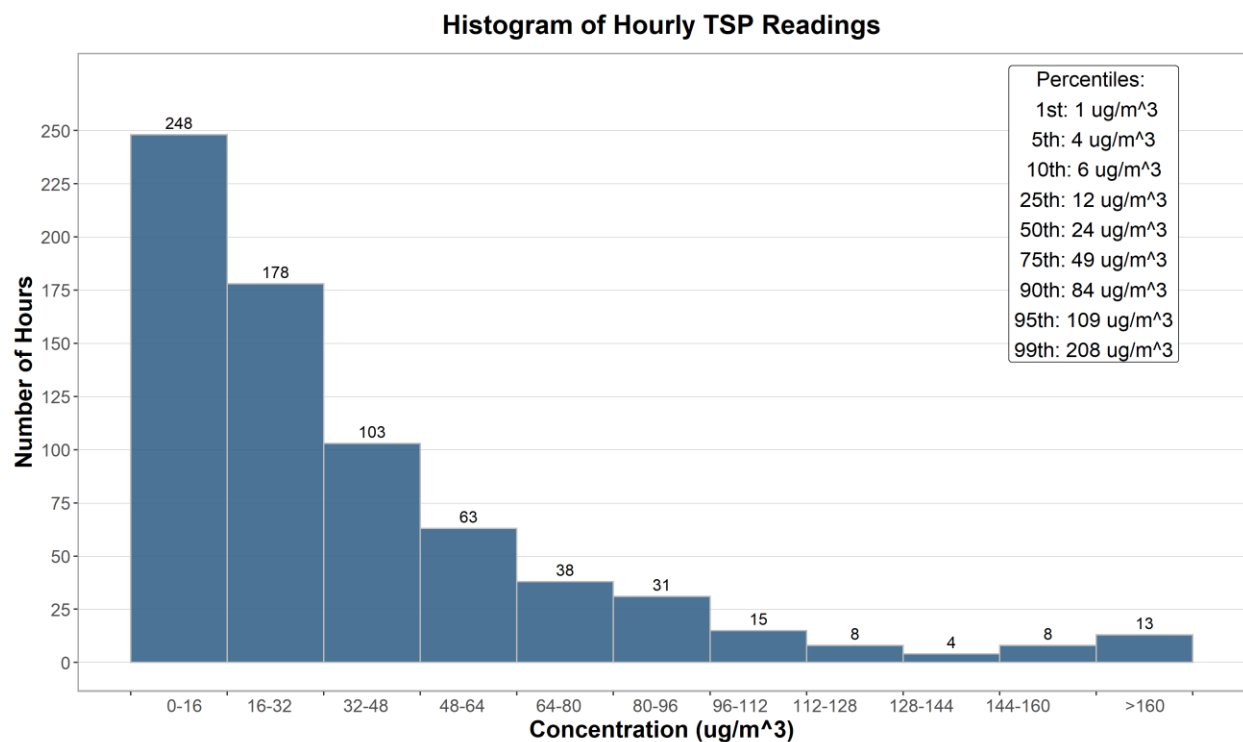


Figure 3-7 **Histogram of hourly TSP concentrations at the Lagoon station**

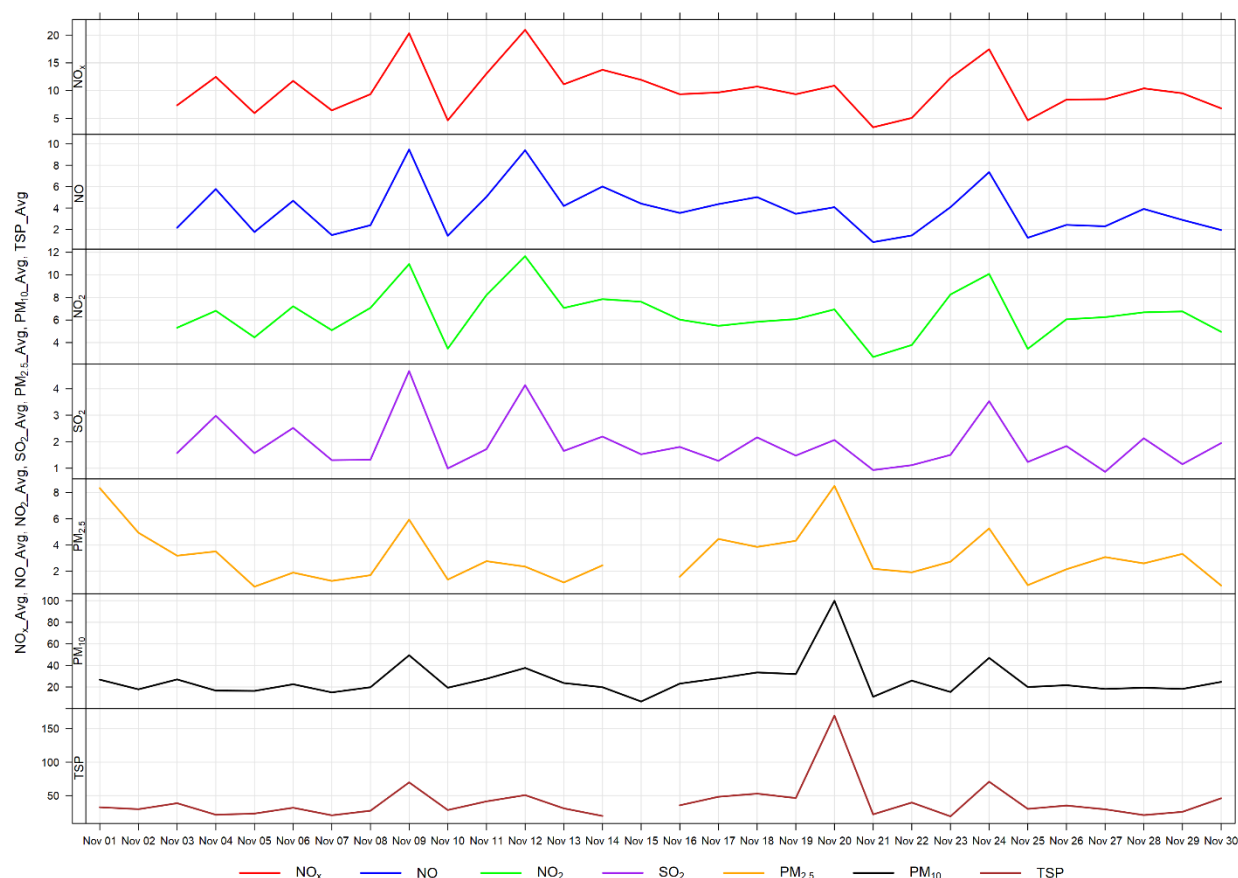


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

The following wind rose (Figure 3-9) shows the wind rose for the one day of TSP exceedances. The wind rose shows that the winds predominately came from the west and east-northeast directions, 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 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.

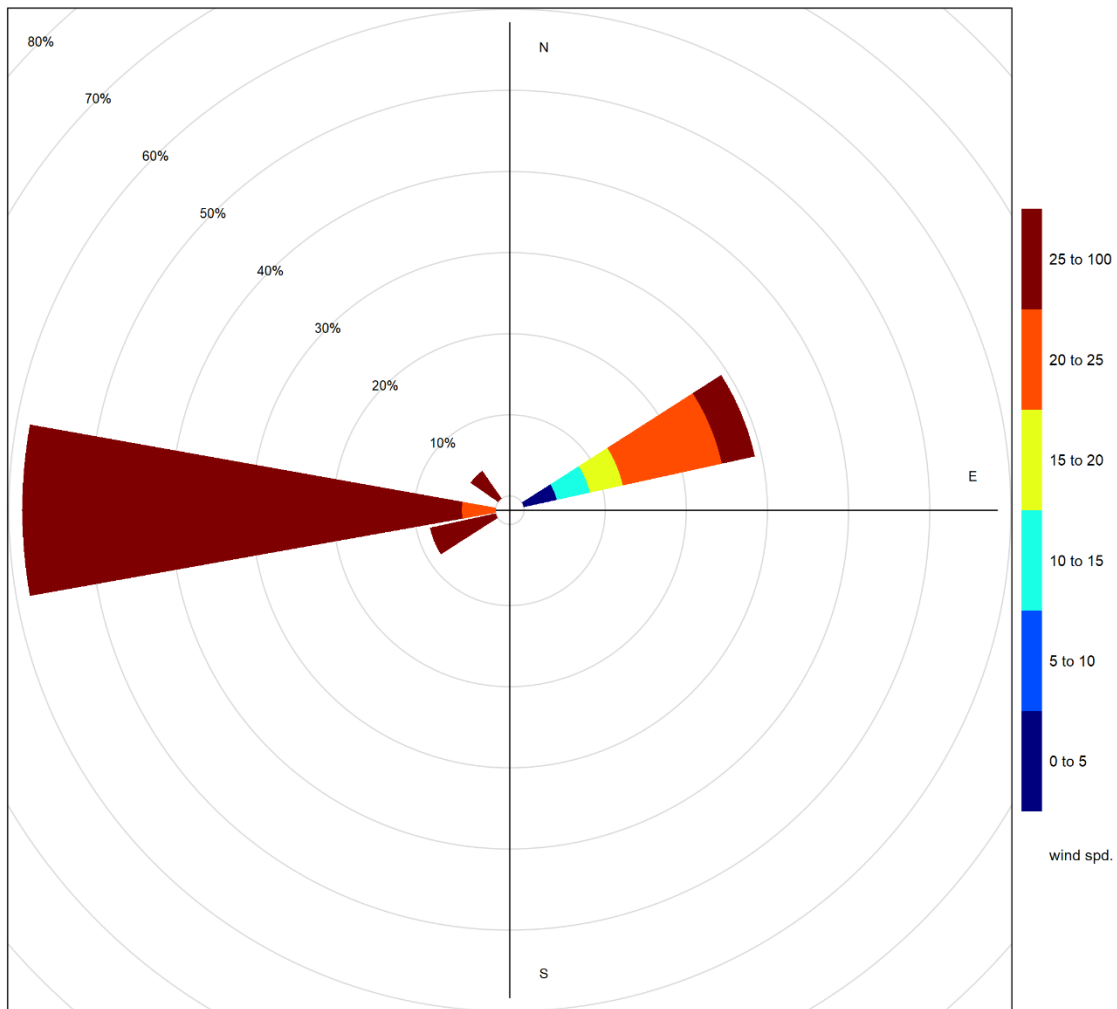


Figure 3-9 Wind rose for TSP exceedance day recorded at the Lagoon Station

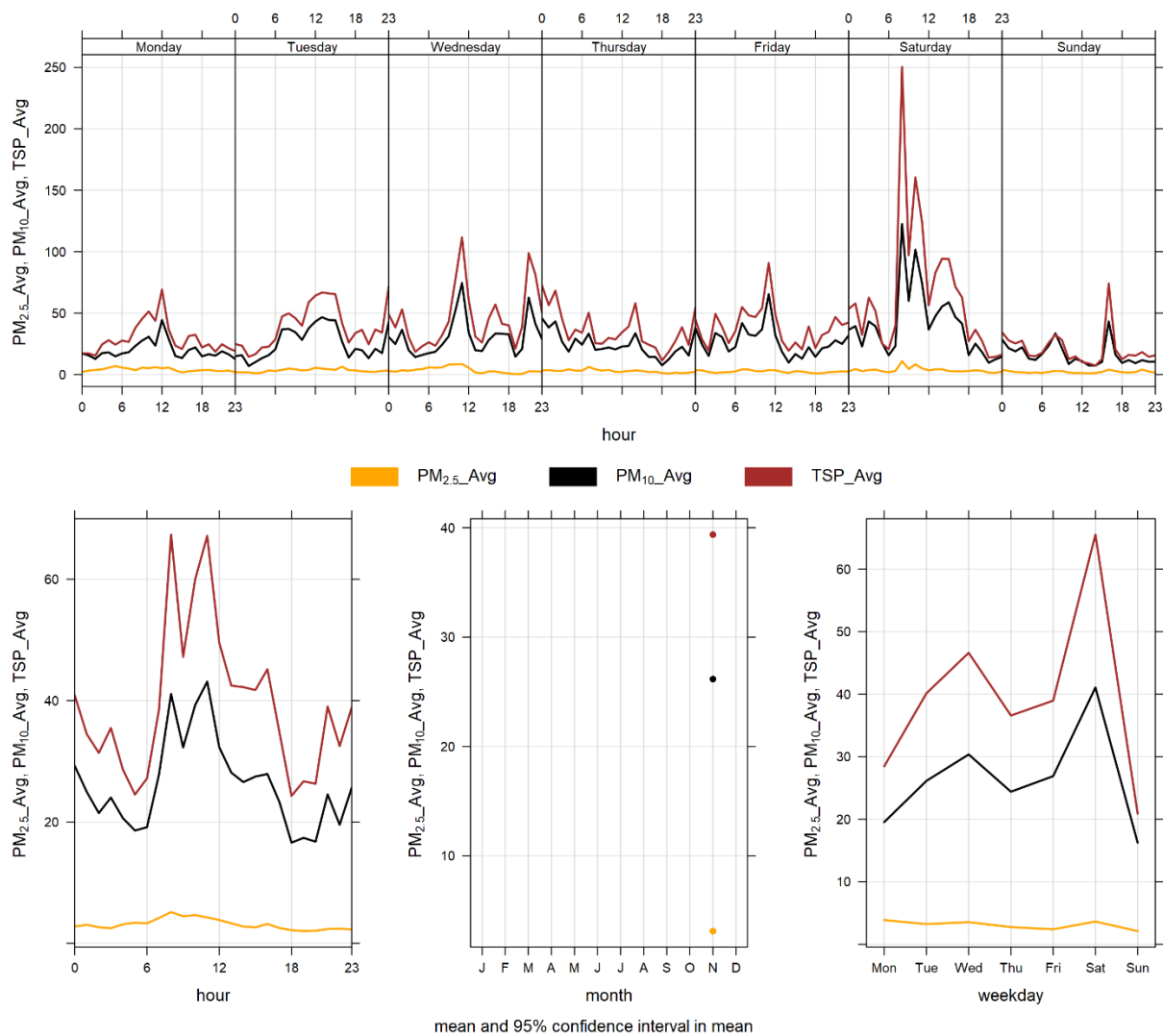


Figure 3-10 Lagoon monitor particulate matter time variation

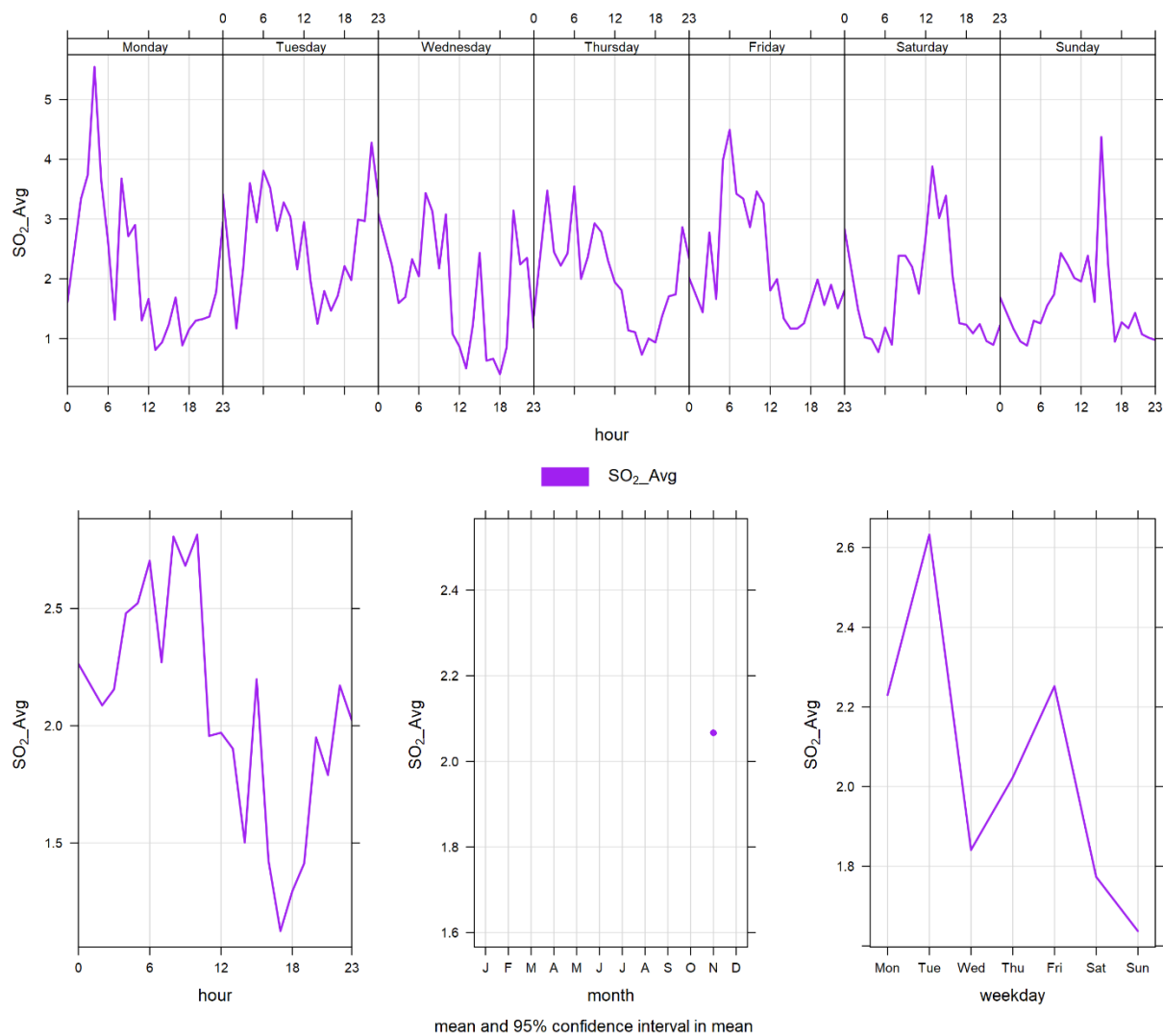


Figure 3-11 Lagoon monitor SO_2 time variation

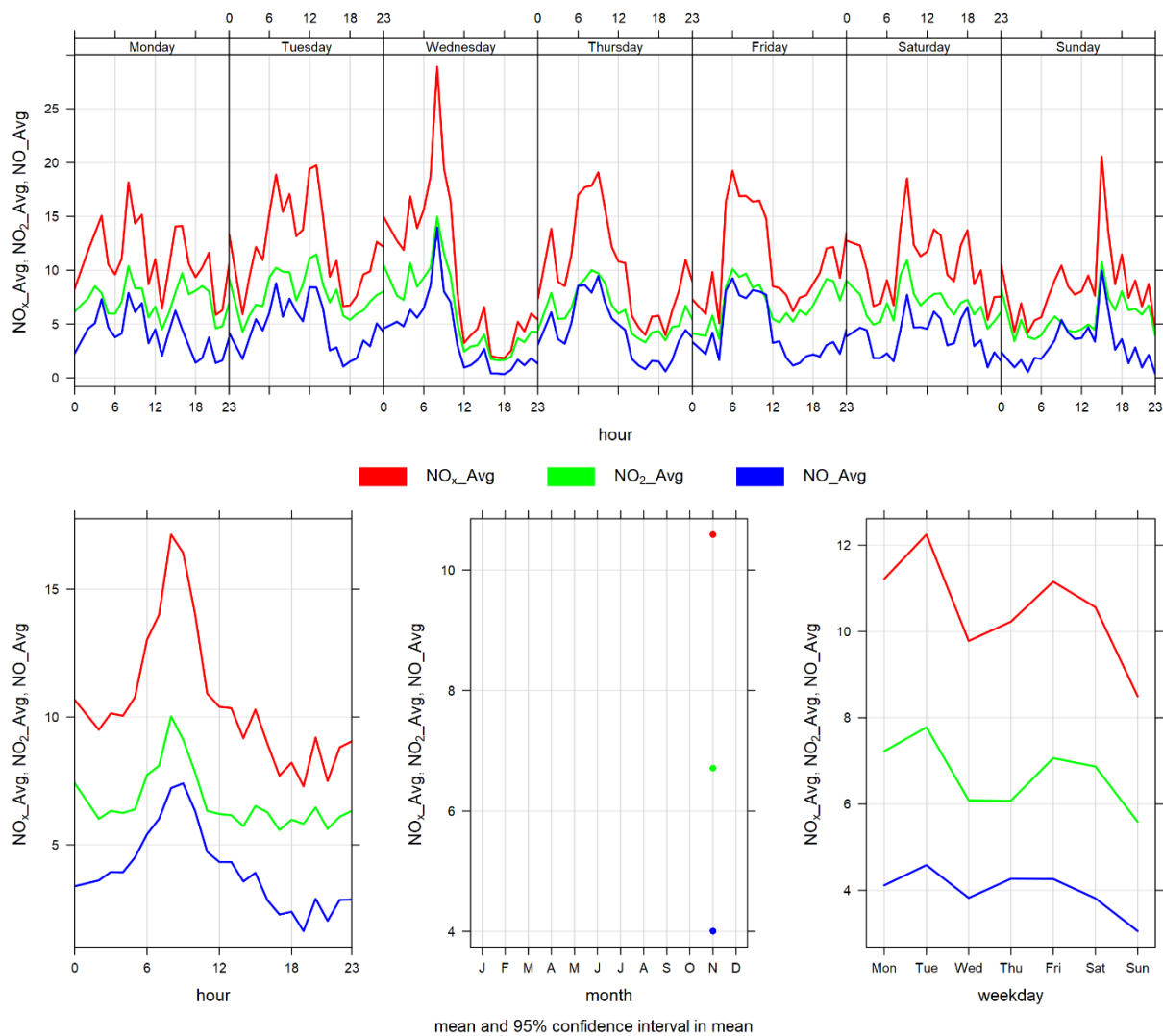


Figure 3-12 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for November 2021.

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 November 16 th . The monitor recorded 99.0% uptime due to seven hours of equipment malfunction that occurred on November 15 th at 13:00 and November 18 th from 08:00 to 13:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on November 16 th . The monitor recorded 99.2% uptime due to six hours of equipment malfunction that occurred on November 10 th at 00:00, November 12 th at 04:00, and November 15 th at 00:00, 06:00, 11:00, 13:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on November 16 th . The monitor recorded 98.8% uptime due to nine hours of equipment malfunction that occurred on November 15 th from 13:00 to 14:00 and November 16 th from 06:00 to 12:00.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in November 2021, 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, one exceedance of the 1-hour PM_{2.5} AAAQG, and 15 exceedances of the 24-hour TSP AAAQO. The TSP exceedances occurred predominantly on days with high speed westerly winds.

Historically in November, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 9 and 0, respectively. Prior to this year, the maximum number of 24-hour TSP AAAQO exceedances recorded in November was 14 days in 2020.

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 November 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 November 2021 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	1	0	0.0	4.4	135.0	20	8	40.7	258.7	17.0	20	99.0
PM₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	82.2	485.0	20	21	20.6	74.7	230.3	20	99.2
TSP (µg/m³)	-	100	Windridge	-	15	0.0	113.3	985.0	20	11	46.7	265.8	343.1	20	98.8

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						
2021-11-03	147.8	-	260.5	29.0	49.2	High wind event
2021-11-05	124.5	-	246.7	23.1	38.9	High wind event
2021-11-08	116.0	-	253.1	17.2	44.3	Wind predominately from the west
2021-11-09	160.3	-	263.6	20.2	53.6	High wind event
2021-11-10	219.8	-	253.1	29.2	37.7	High wind event
2021-11-17	201.3	-	269.9	29.0	55.8	High wind event
2021-11-18	113.6	-	289.1	26.4	60.2	High wind event
2021-11-20	343.1	-	271.0	30.3	51.0	High wind event
2021-11-21	163.4	-	249.0	31.4	49.7	High wind event
2021-11-22	153.3	-	257.5	34.6	36.7	High wind event
2021-11-24	196.6	-	256.6	24.3	60.7	High wind event
2021-11-25	204.8	-	253.9	40.2	50.6	High wind event
2021-11-26	106.3	-	255.9	24.5	52.4	High wind event
2021-11-27	210.7	-	259.2	26.7	58.1	High wind event
2021-11-30	159.5	-	258.1	42.8	42.0	High wind event
Total # of Exceedances	15	0				

Maximum # of Exceedances (November)	14 (2020)	0 (2017, 2018, 2020)				
Average # of Exceedances (November)	9	0				
Minimum # of Exceedances (November)	6 (2017)	0 (2017, 2018, 2020)				

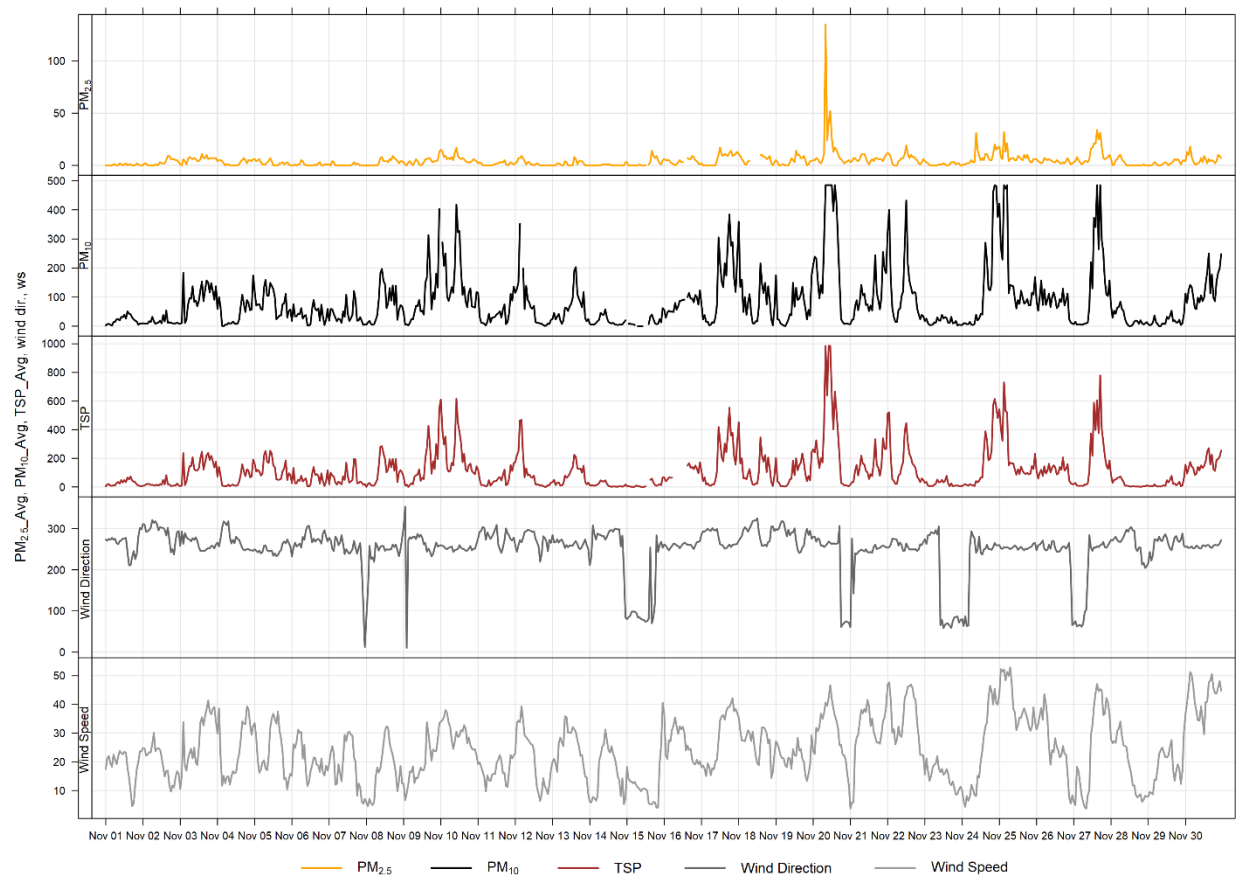


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

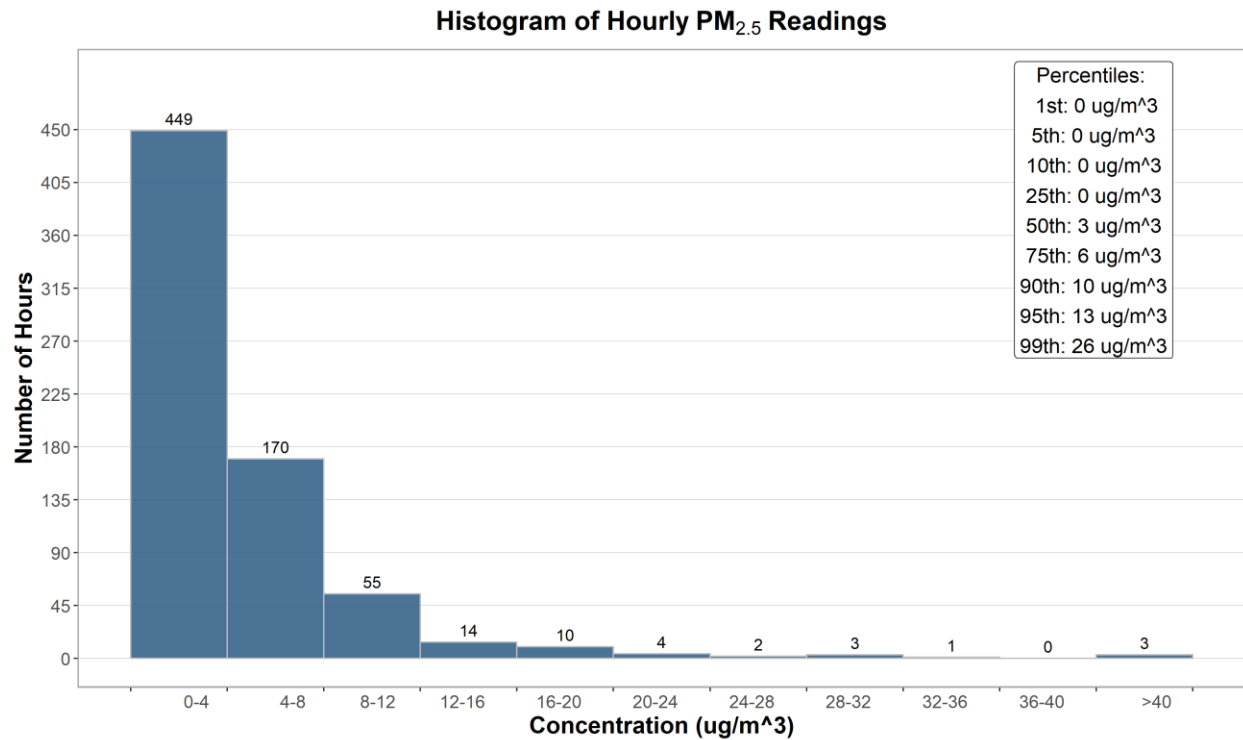


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

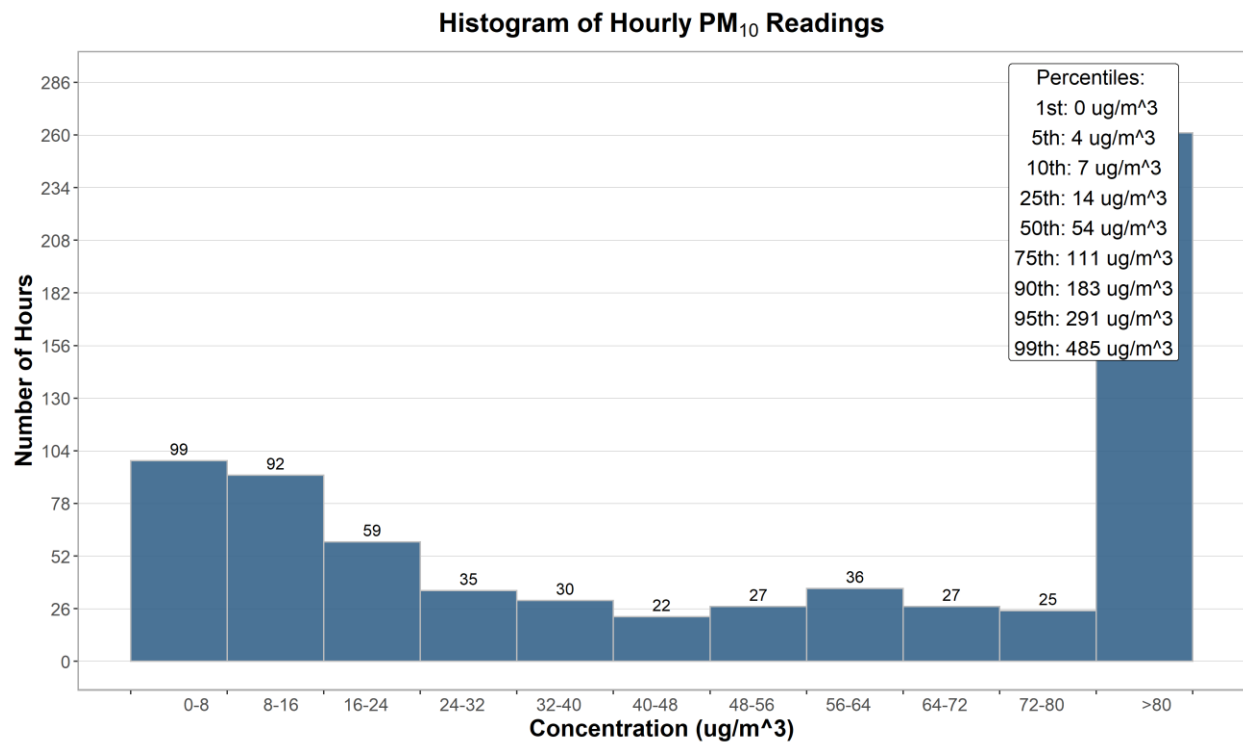


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

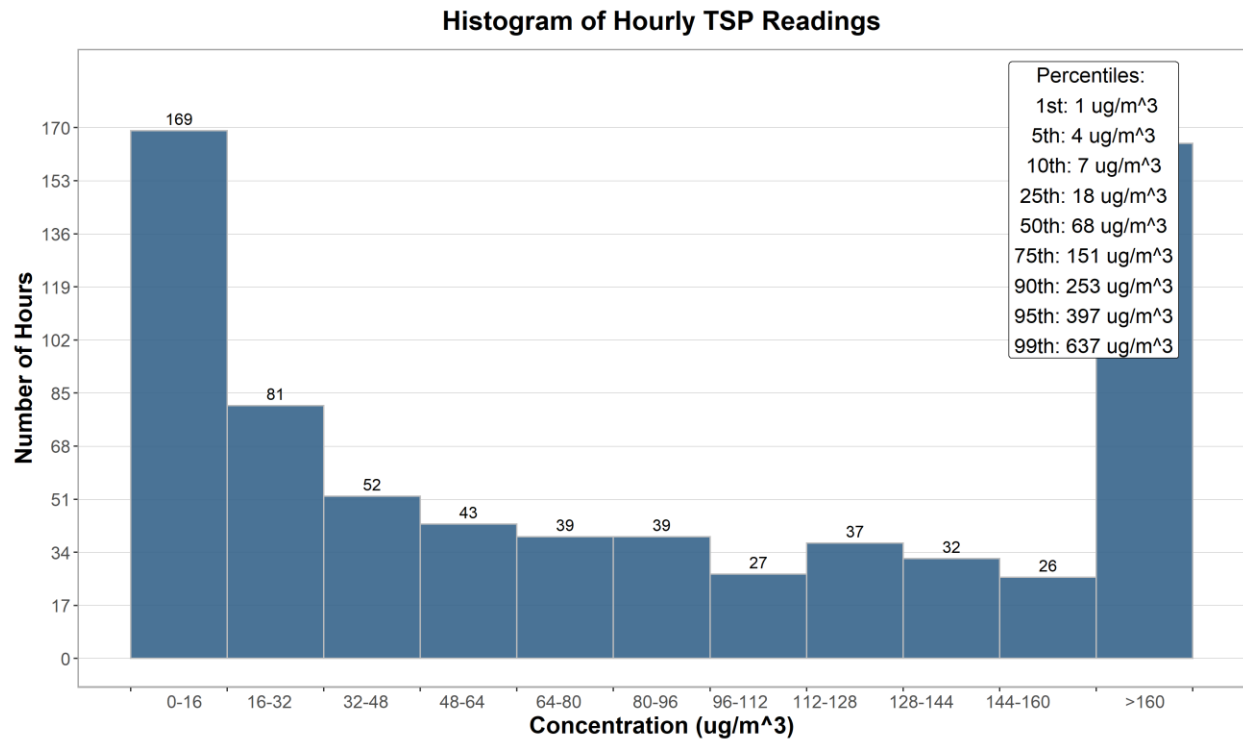


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

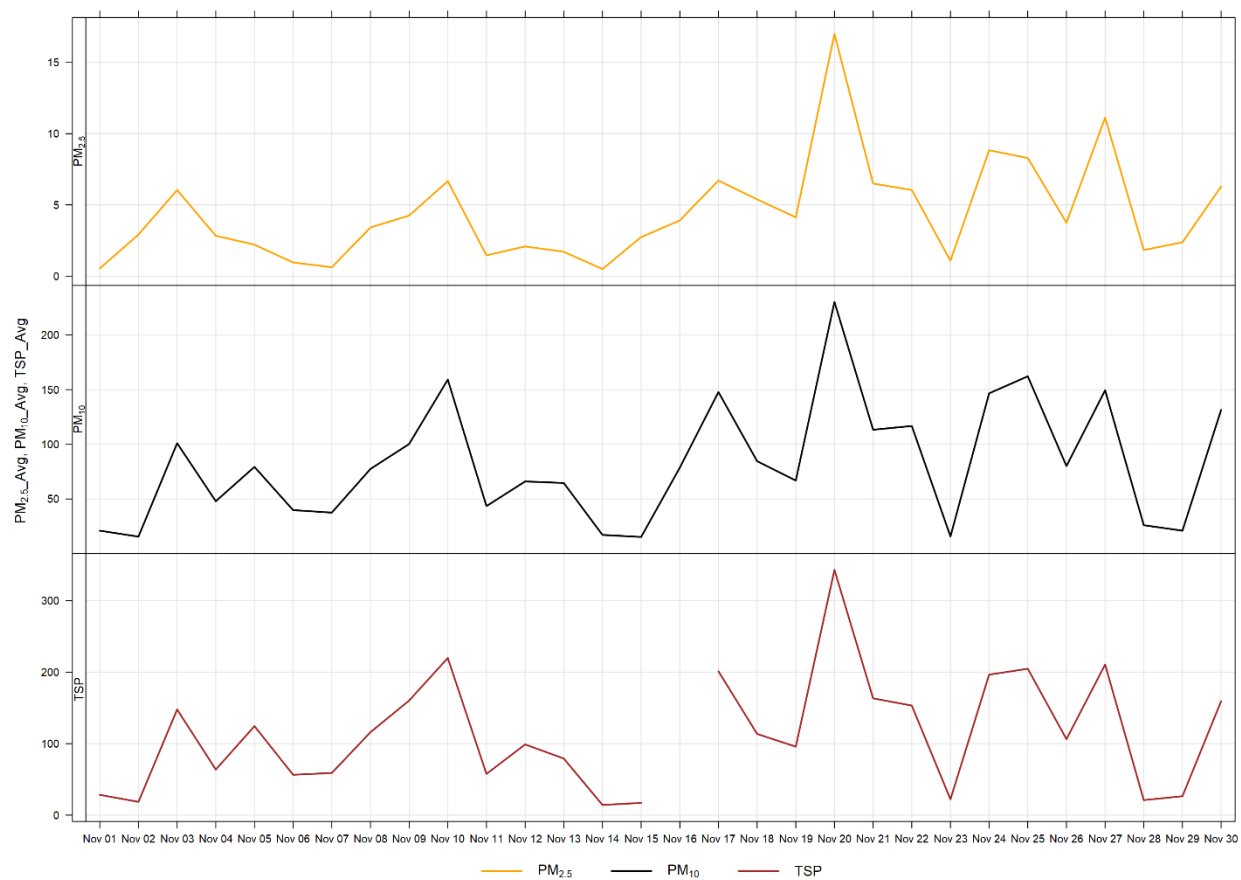


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 15 days of TSP exceedances. The wind rose shows that the winds predominantly came from the west-southwest and west directions, and were predominately over 25 km/hr. This month the TSP exceedances were largely driven by windblown fugitive dust.

Figure 4-7 illustrates the hourly PM concentrations recorded at the Windridge monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 4-7 is based on data collected during November 2021 and similar to the Lagoon station 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.

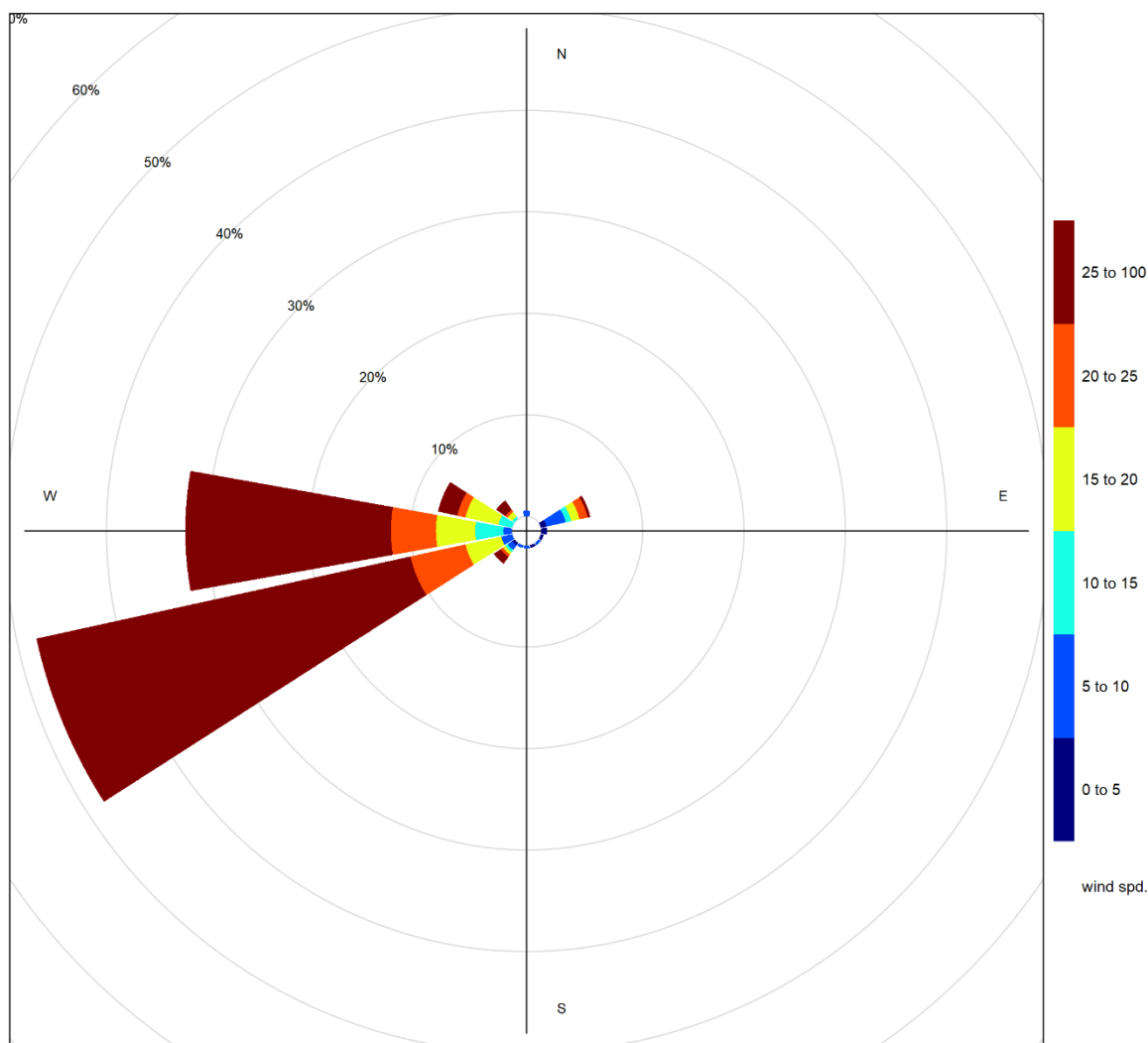


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

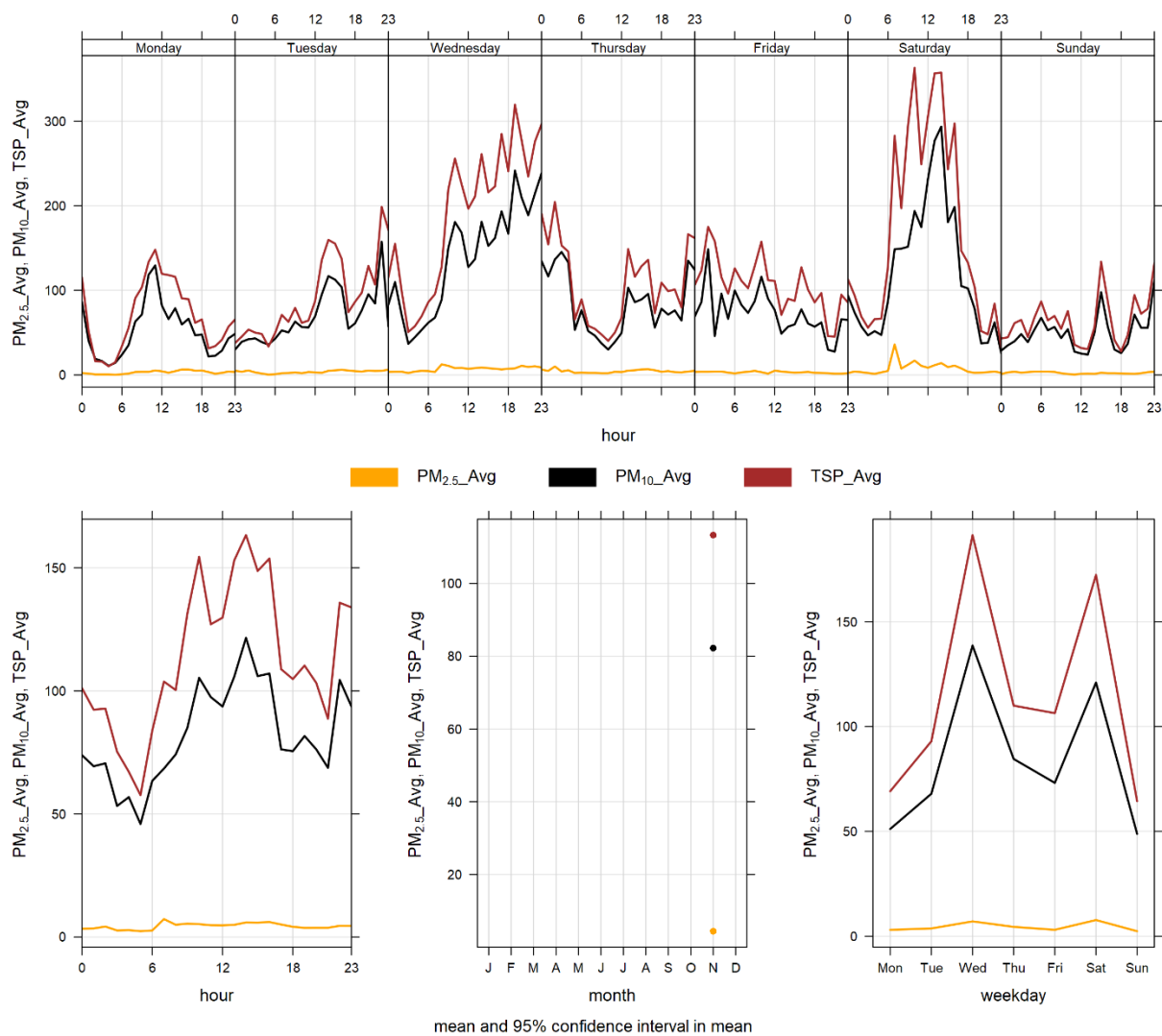


Figure 4-7 Windridge particulate matter time variation

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 28.6% uptime for the month of November due to the instrument being removed for annual calibration and maintenance from November 9 th at 15:00 to November 30 th at 23:00

5.2 MONITORING RESULTS AND TRENDS

The West GRIMM was installed in 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 exceedance 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. The West monitor was only operational for 8 days in November 2021 due to the instrument being removed for annual calibration and maintenance. Therefore, the analysis presented here is for only for a small portion of the month.

Historically in November there has been one exceedance of the 24-hour TSP Guideline, and zero exceedances of the 24-hour PM_{2.5} Guideline.

Table 5-2 Summary of November 2021 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	0.3	3.2	8.4	2	16	16.9	302.4	5.2	3	28.6
PM₁₀ (µg/m ³)	-	-	West	-	-	0.4	4.1	11.2	2	16	16.9	302.4	6.6	3	28.6
TSP (µg/m ³)	-	100	West	-	0	0.3	3.7	11.4	3	16	35.9	246.7	5.7	3	28.6

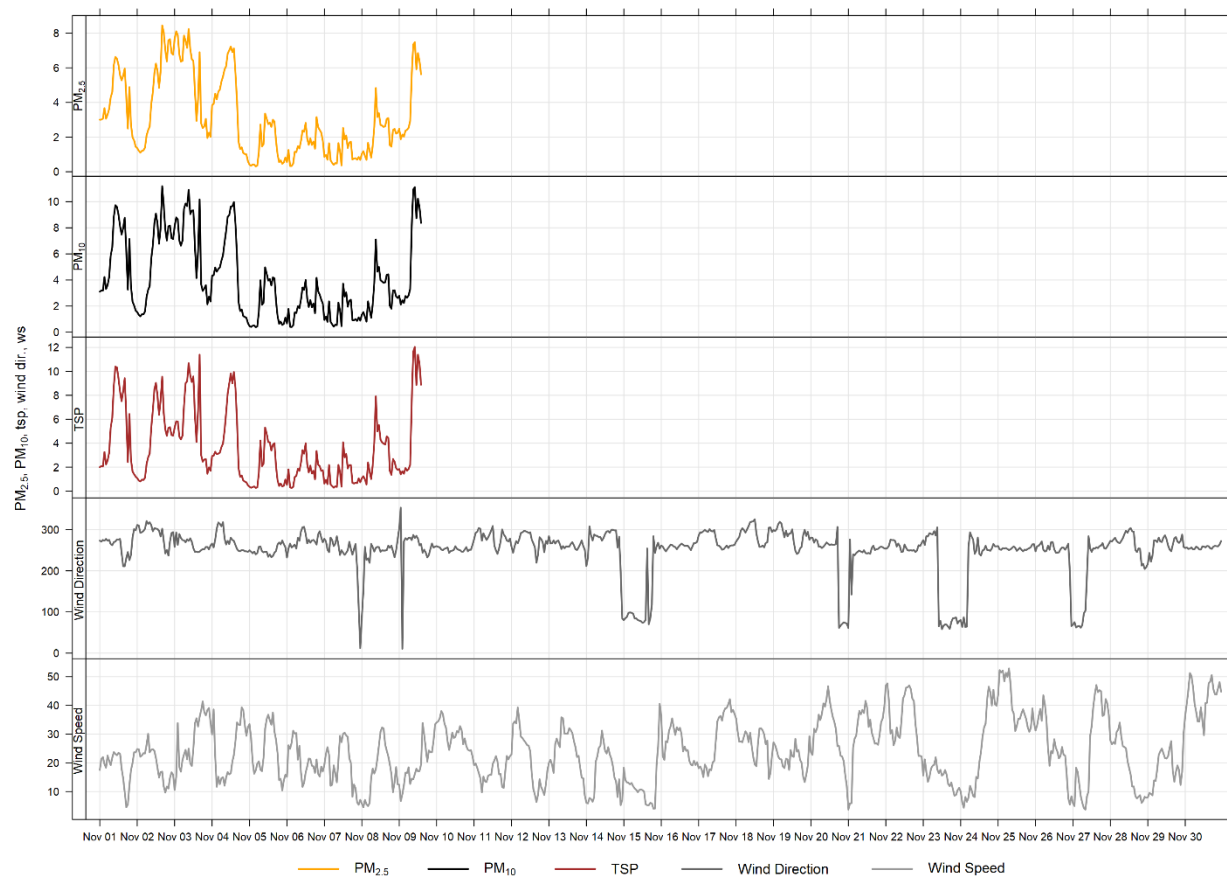


Figure 5-1 1-hour particulate matter concentrations at the West monitor

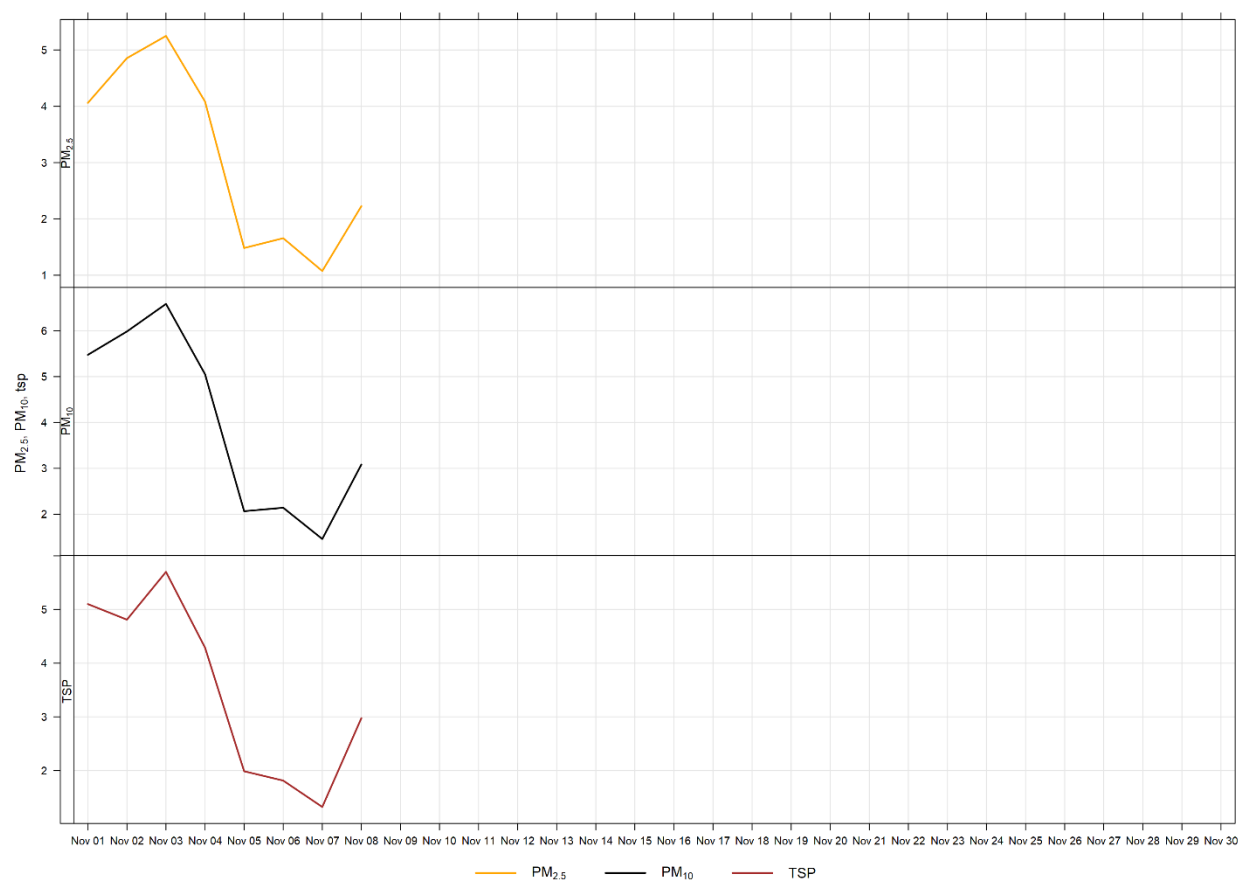


Figure 5-2 24-hour particulate matter concentrations at the West monitor

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 November 2021. As the monitor is generally 'up-wind' of the facility, the daily variations in PM are more likely a result of higher traffic volume during daylight hours than specific Lafarge operations.

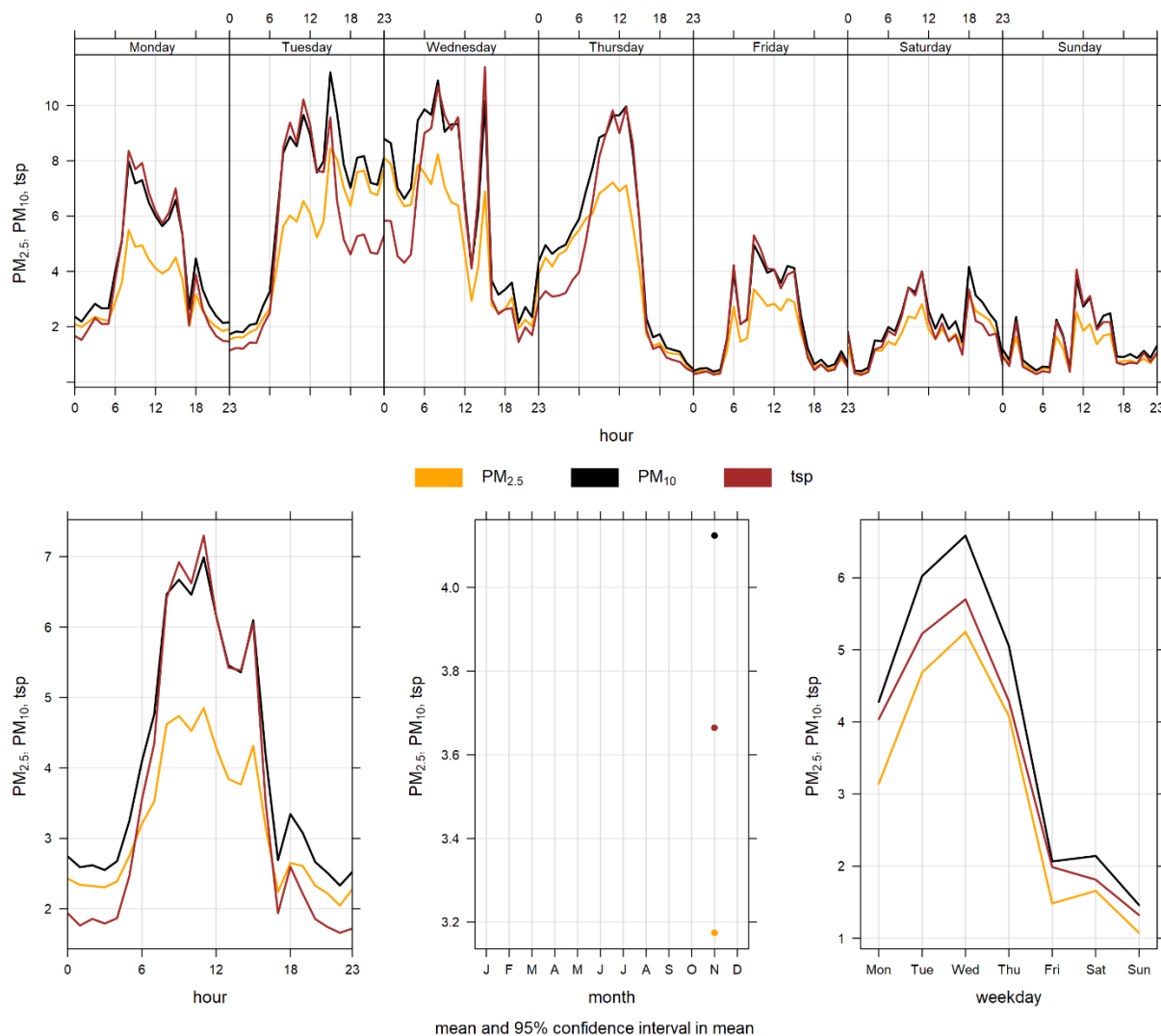


Figure 5-3 West monitor particulate matter time variation

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 35.4% uptime during the month of November due to the GRIMM monitor being removed for annual calibration and maintenance (returned to operation November 9th at 16:00), and equipment malfunction from November 20th at 07:00 to November 30th at 23:00.

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 in 2009. 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.

The Berm monitor was only operational for 11 days in November 2021 due to annual calibration and maintenance on the monitor and equipment malfunction following the re-installation. Therefore, the analysis presented here is for only a small portion of the month. There were 8 and 2 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were 6 hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of November, the Berm monitor records an average of 17 and one exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during November occurred in 2011 and 2020 where there were 23 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in November was 4 days in 2020.

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 November 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 November 2021 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	6	2	0.2	20.1	129.3	10	11	28.7	251.0	45.8	10	35.4
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.3	151.0	889.3	10	11	28.7	251.0	321.5	10	35.4
TSP (µg/m ³)	-	100	Berm	-	8	0.2	508.5	2798.4	17	18	39.2	261.4	1078.6	17	35.4

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						
2021-11-10	1027.7	45.8	253.1	29.2	37.7	High wind event
2021-11-11	259.9	-	278.8	17.2	51.5	Wind predominantly from the west
2021-11-12	478.3	-	276.4	21.3	61.7	High wind event
2021-11-13	334.3	-	261.7	24.2	53.5	High wind event
2021-11-16	406.9	-	260.2	25.9	47.0	High wind event
2021-11-17	1078.6	34.0	269.9	29.0	55.8	High wind event
2021-11-18	583.9	-	289.1	26.4	60.2	High wind event
2021-11-19	424.5	-	283.6	21.5	61.3	High wind event
Total # of Exceedances	8	2				
Maximum # of Exceedances (November)	23 (2011, 2020)	4 (2020)				
Average # of Exceedances (November)	17	1				
Minimum # of Exceedances (November)	12 (2015, 2019)	0 (2010, 2013, 2016, 2019)				

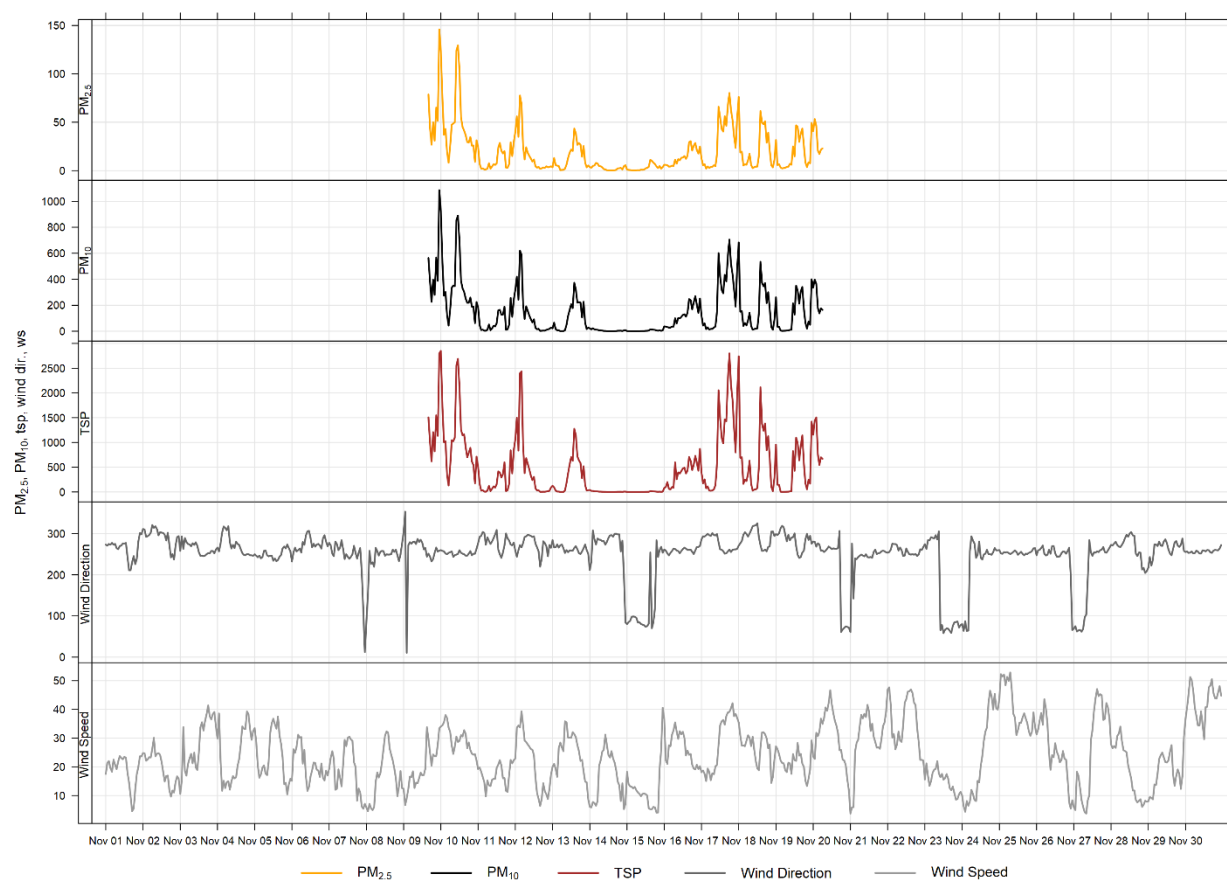


Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

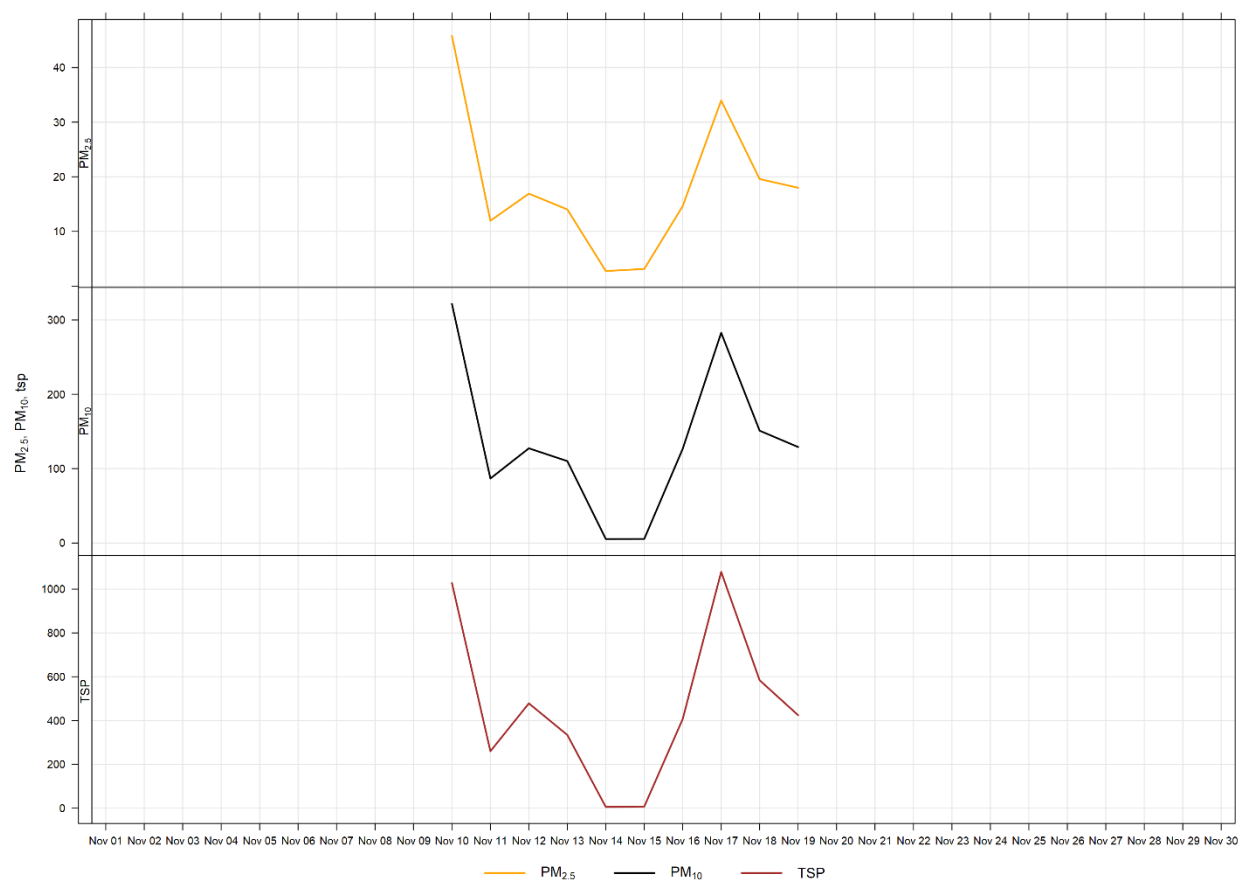


Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 8 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 the TSP exceedances were largely driven by windblown fugitive dust.

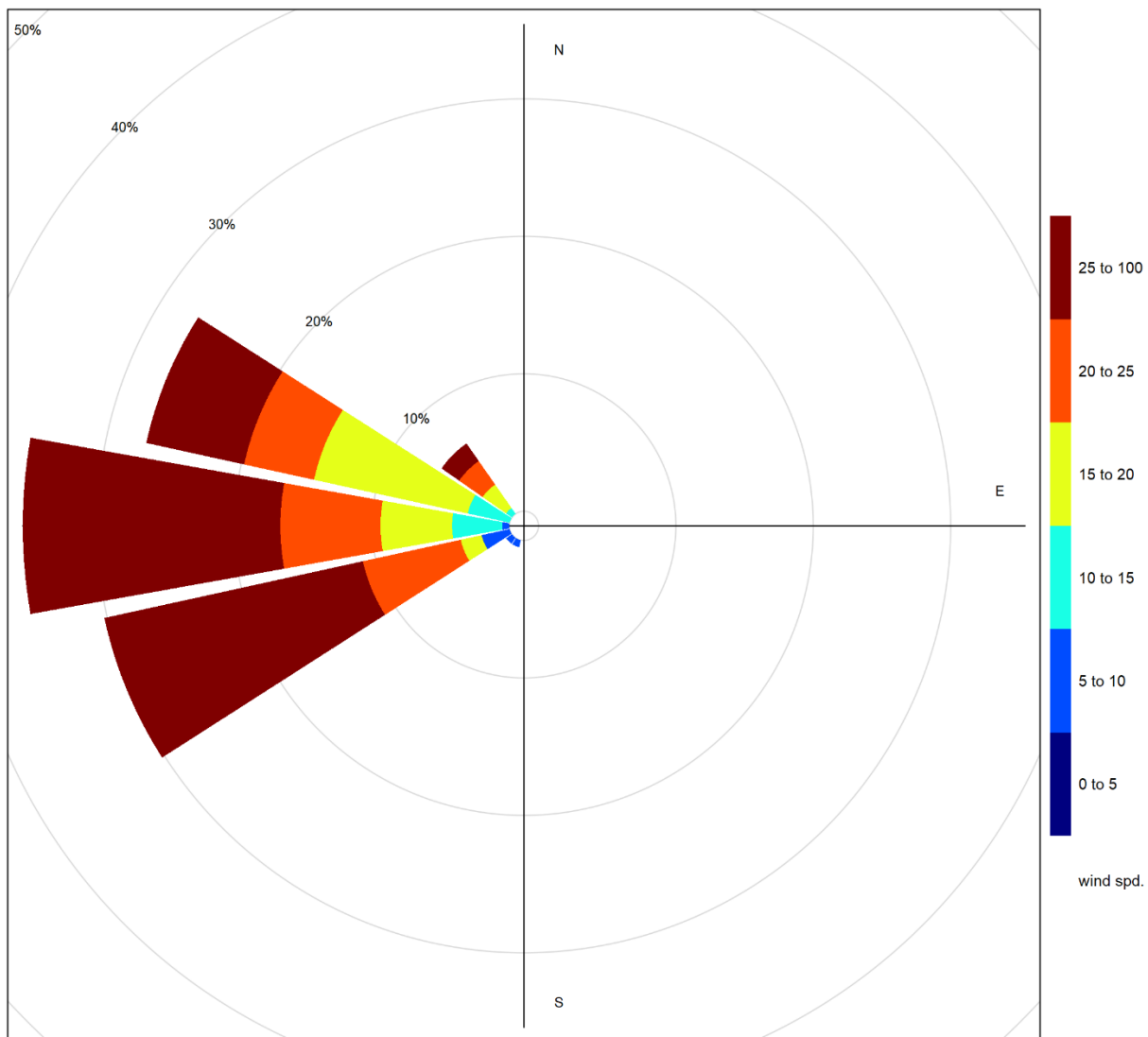


Figure 6-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

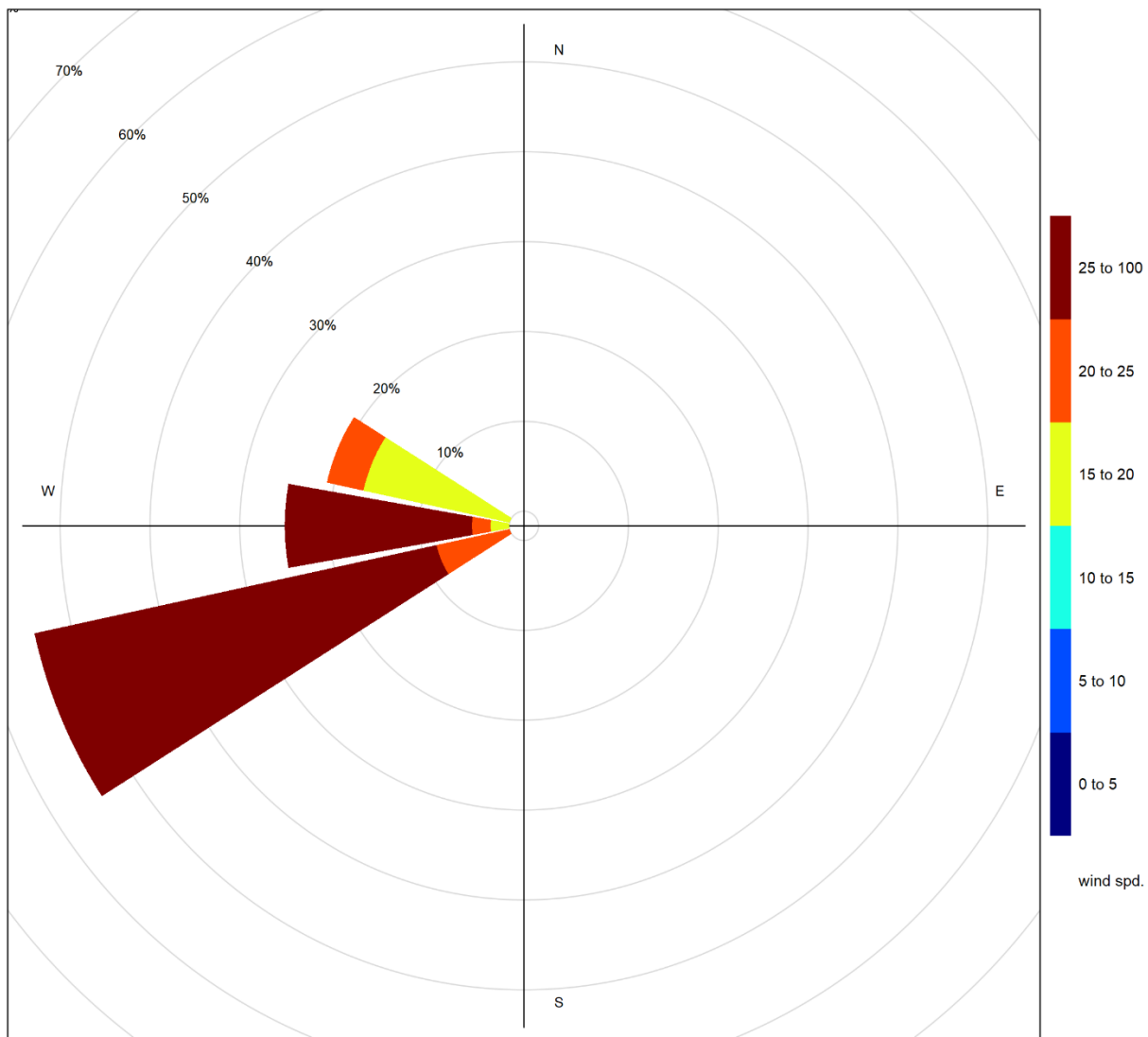


Figure 6-4 Wind rose for PM_{2.5} exceedance days recorded at the Berm GRIMM

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 71.4% uptime for the month of November due to the GRIMM monitor being removed for annual calibration and maintenance (returned to operation as of November 9 th at 15:00)

7.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of dispersion modelling conducted in 2009. This area was indicated as being the area where the maximum PM concentrations were expected. 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 November, there were 15 and zero exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There was one hour exceeding the 1-hour PM_{2.5} Guideline. The Entrance monitor was only operational for 21 days in November 2021 due to annual calibration and maintenance on the monitor. Therefore, the analysis presented here is for only a portion of the month.

Historically, the Entrance monitor records an average of 16 and zero exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of November. The maximum number of TSP exceedances recorded during November occurred in 2014, which had 25 days that exceeded the guideline. The minimum number of TSP exceedances recorded during November occurred in 2012, which had one day that exceeded the guideline. The maximum number of PM_{2.5} exceedances recorded during November occurred in 2013 and 2014, which had 2 days that exceeded the guideline.

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 15 days that exceeded the TSP Guideline. The wind rose show that the winds predominantly came from the westerly directions, and were predominately over 20 km/hr.

Table 7-2 Summary of November 2021 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	1	0	0.2	9.1	132.6	20	8	40.7	258.7	20.9	19	71.4
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	0.2	55.3	1198.7	20	8	40.7	258.7	135.9	18	71.4
TSP (µg/m ³)	-	100	Entrance	-	15	0.2	210.6	2902.9	20	8	40.7	258.7	523.4	24	71.4

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						
2021-11-10	188.3	-	253.1	29.2	37.7	High wind event
2021-11-11	323.2	-	278.8	17.2	51.5	Wind predominately from the west
2021-11-12	283.3	-	276.4	21.3	61.7	High wind event
2021-11-16	140.0	-	260.2	25.9	47.0	High wind event
2021-11-17	467.7	-	269.9	29.0	55.8	High wind event
2021-11-18	512.6	-	289.1	26.4	60.2	High wind event
2021-11-19	311.3	-	283.6	21.5	61.3	High wind event
2021-11-20	414.6	-	271.0	30.3	51.0	High wind event
2021-11-21	132.3	-	249.0	31.4	49.7	High wind event
2021-11-22	170.3	-	257.5	34.6	36.7	High wind event
2021-11-24	523.4	-	256.6	24.3	60.7	High wind event
2021-11-25	244.2	-	253.9	40.2	50.6	High wind event
2021-11-26	102.2	-	255.9	24.5	52.4	High wind event
2021-11-27	179.9	-	259.2	26.7	58.1	High wind event
2021-11-30	175.3	-	258.1	42.8	42.0	High wind event

Total # of Exceedances	15	0				
Maximum # of Exceedances (November)	25 (2014)	2 (2013, 2014)				
Average # of Exceedances (November)	16	0				
Minimum # of Exceedances (November)	1 (2012)	0 (2010, 2011, 2015, 2016, 2017, 2018, 2019, 2020)				

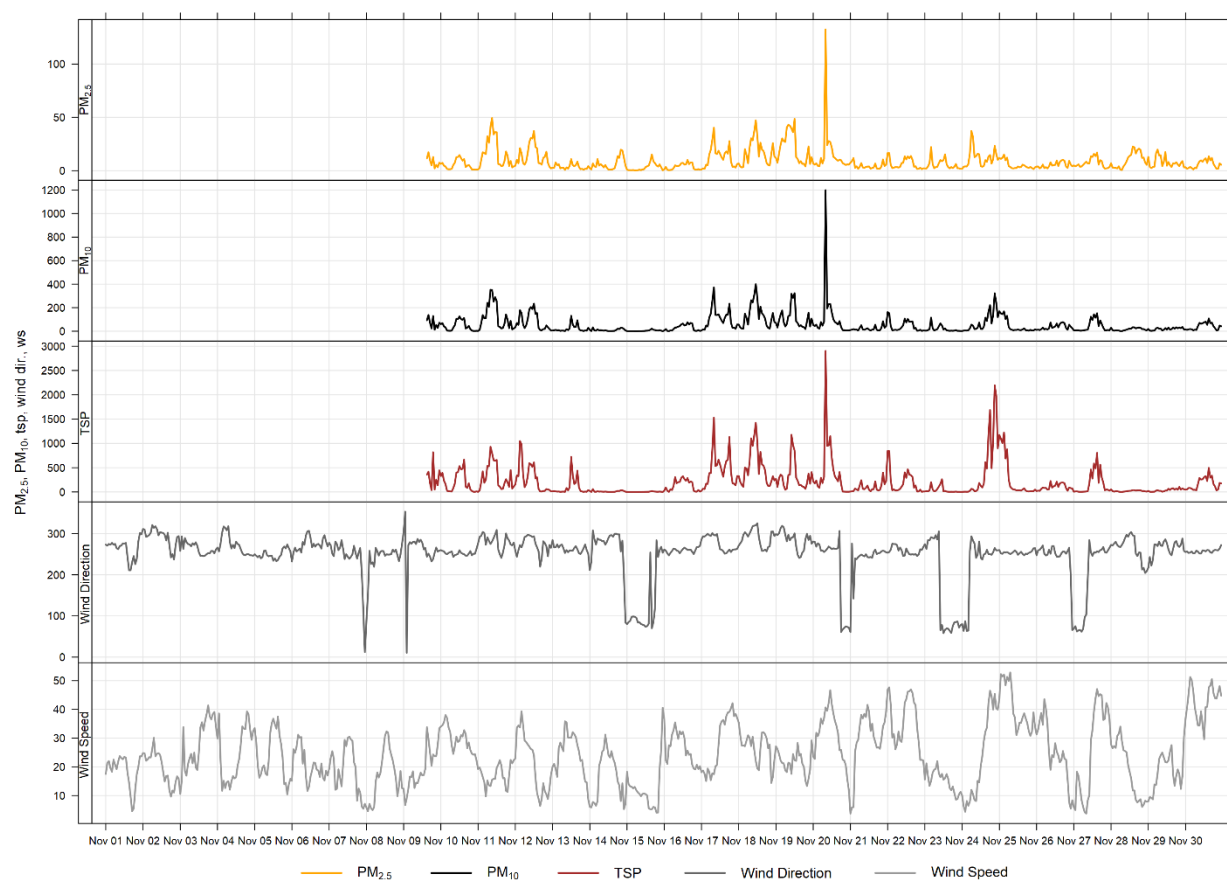


Figure 7-1 1-hour particulate matter concentrations recorded at the Entrance monitor

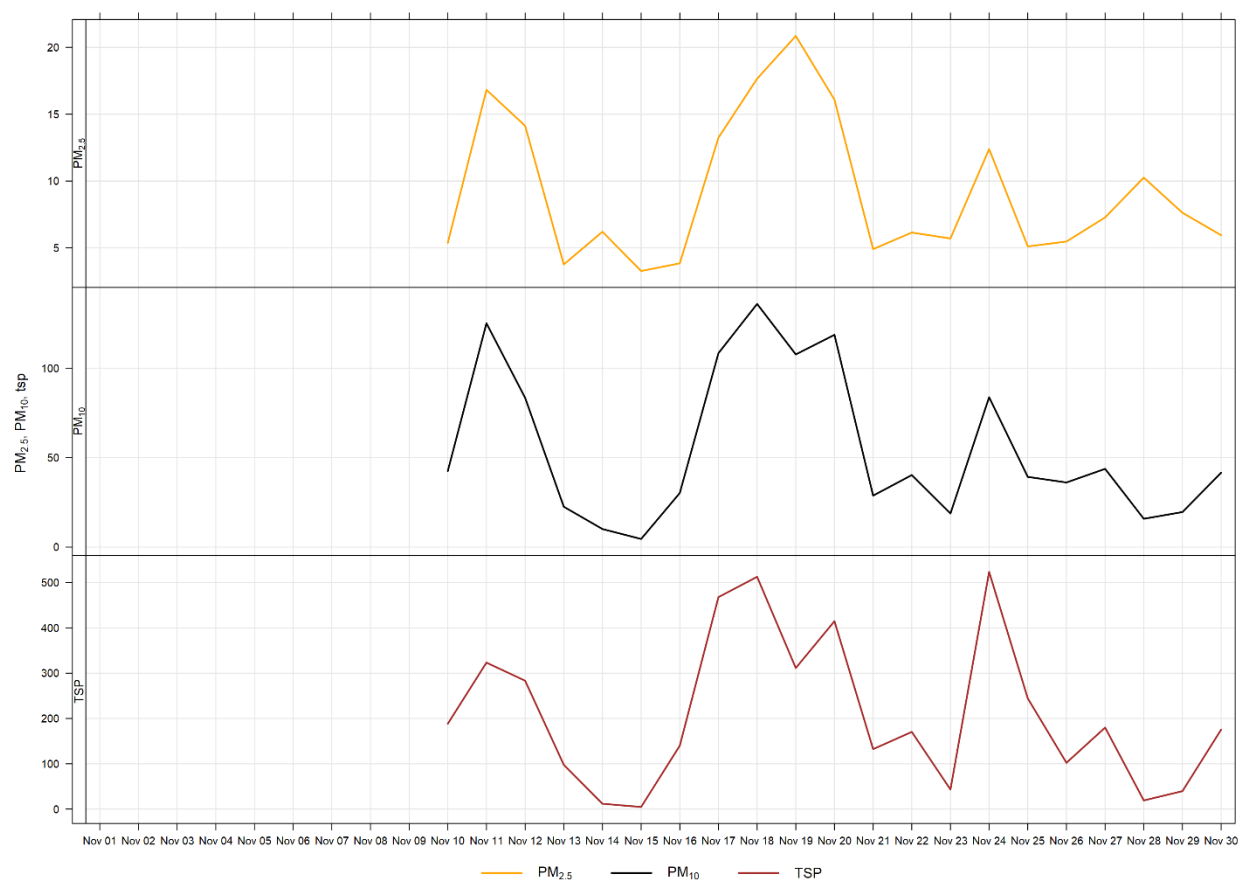


Figure 7-2 24-hour particulate matter concentrations at the Entrance monitor

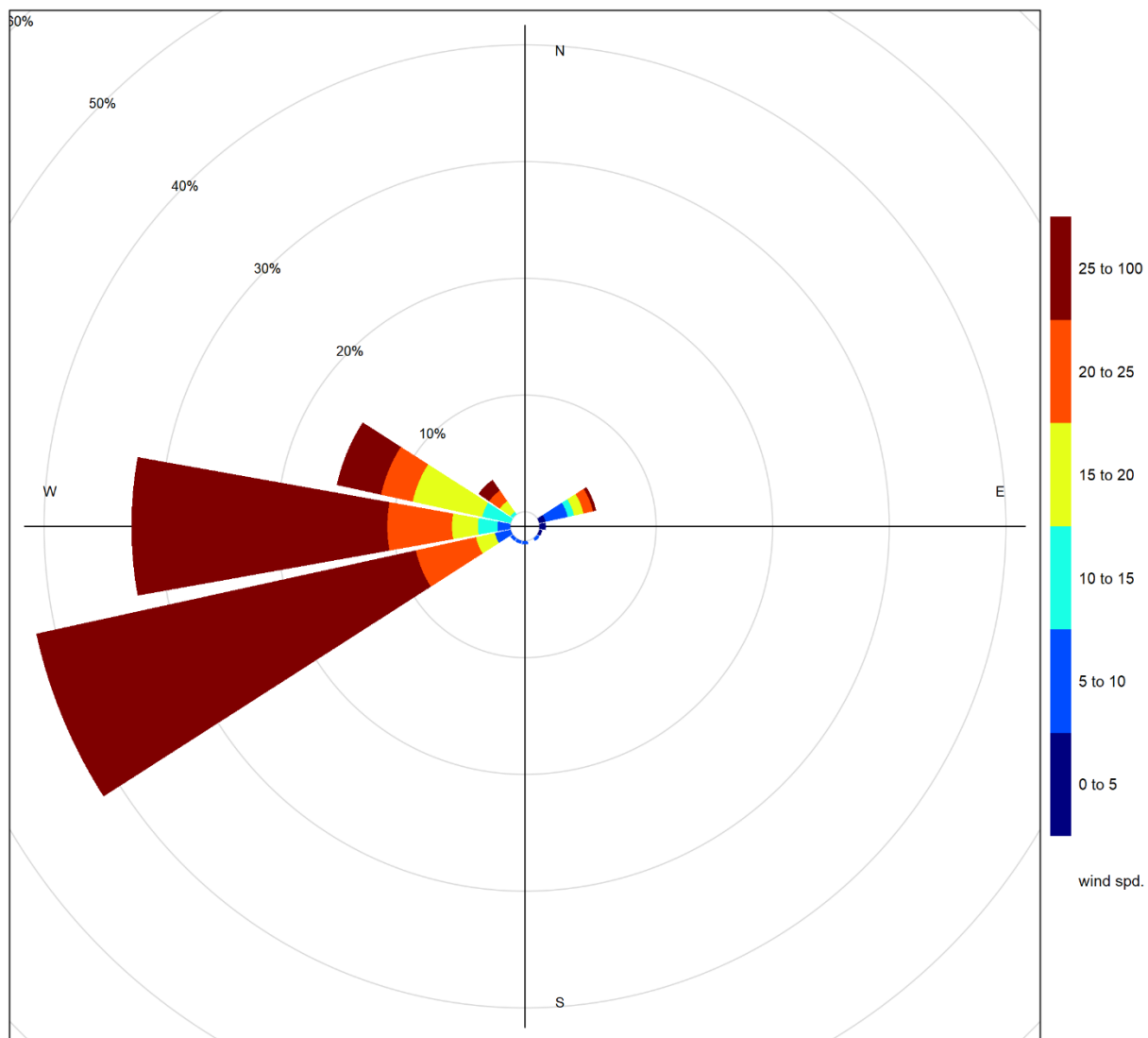


Figure 7-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

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 November 2021. 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.

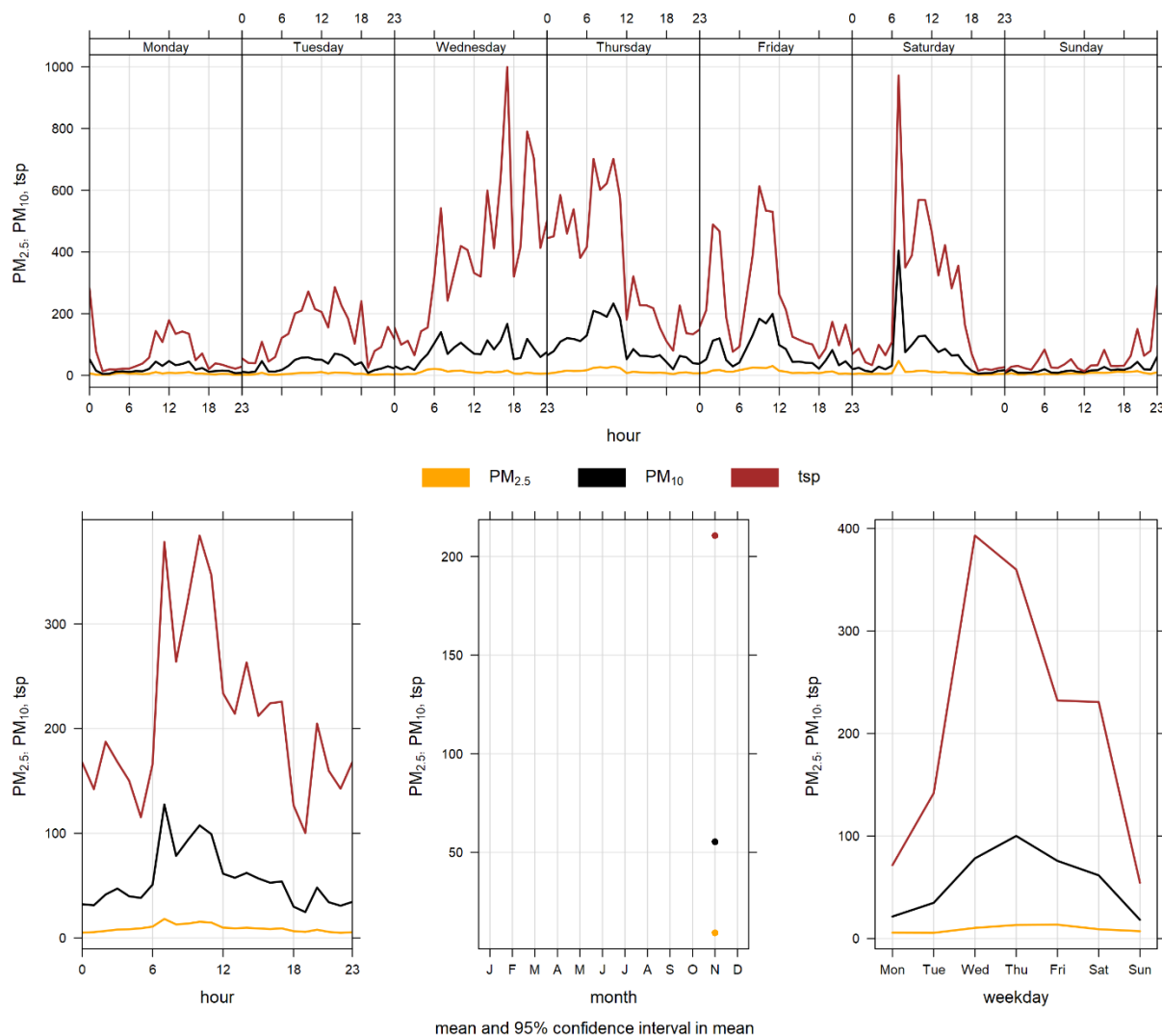


Figure 7-4 Entrance particulate matter time variation

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

APPENDIX

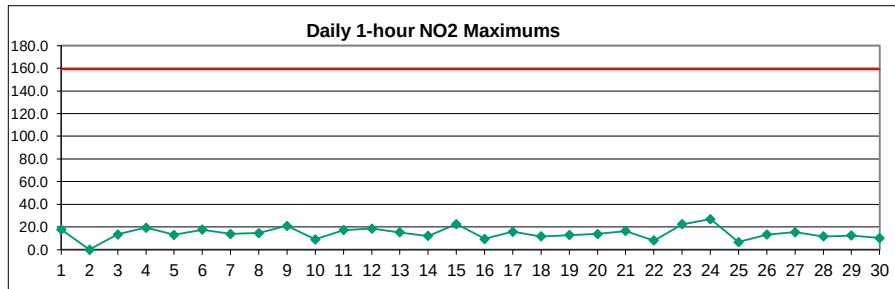
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – November 2021

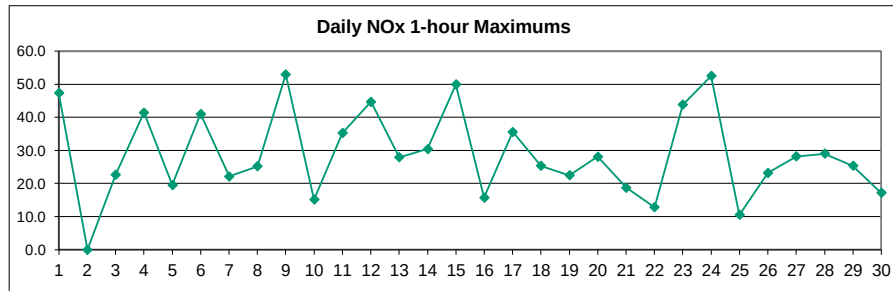
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.6	S	13.0	14.7	17.8	14.4	14.6	13.2	16.8	14.0	12.5	O	O	O	4.7	5.0	7.5	9.1	10.9	17.5	12.6	6.3	6.0	5.3	11.4	17.8
2	6.1	S	9.6	5.9	5.2	5.1	5.6	5.7	7.0	6.7	C	C	C	C	C	C	11.2	11.4	11.1	11.6	11.5	13.1	15.2	11.3	-	-
3	12.0	S	8.9	5.4	5.8	5.6	9.8	11.6	13.4	10.4	9.2	3.4	1.6	1.9	1.7	1.7	1.4	1.8	1.8	2.5	1.2	2.6	3.4	5.2	5.3	13.4
4	1.2	S	7.6	5.0	3.1	5.3	9.0	14.1	19.3	17.8	15.3	12.8	10.3	10.8	6.4	4.1	1.6	3.0	1.3	0.8	1.6	1.7	2.5	2.2	6.8	19.3
5	1.4	S	1.3	1.7	3.7	9.2	13.0	8.0	5.2	1.8	1.2	1.8	0.9	1.1	1.2	1.4	1.6	6.1	4.6	9.6	11.7	7.7	7.5	1.0	4.5	13.0
6	7.0	S	2.6	3.6	5.2	2.3	7.1	5.8	9.1	6.2	5.9	7.2	7.5	10.5	7.5	6.4	4.9	8.8	17.5	8.9	10.4	6.8	6.5	8.1	7.2	17.5
7	6.8	S	1.1	8.6	5.4	3.7	3.4	7.5	5.5	1.2	2.2	1.5	0.8	0.8	0.8	11.9	3.6	5.9	13.8	7.1	9.1	5.5	6.3	4.6	5.1	13.8
8	9.1	S	11.5	14.5	6.2	3.5	6.6	7.4	12.2	9.2	8.6	2.8	2.5	1.1	2.1	2.3	8.1	4.2	9.6	6.8	7.0	4.9	8.8	13.9	7.1	14.5
9	20.6	S	5.3	12.4	17.1	13.6	19.1	20.9	18.6	17.2	15.1	13.1	17.2	9.9	2.7	5.2	4.9	2.8	3.1	4.4	11.5	5.6	5.4	6.4	11.0	20.9
10	4.8	S	2.9	1.5	5.6	4.1	5.4	2.2	3.8	5.0	4.2	9.0	3.1	3.1	2.5	1.6	1.4	1.8	2.6	1.6	2.9	2.4	3.4	4.6	3.5	9.0
11	12.0	S	10.0	6.1	8.2	9.9	17.3	15.4	12.7	12.1	9.4	6.8	3.2	2.9	2.5	4.2	5.5	9.3	10.6	9.3	7.0	3.8	6.0	4.6	8.2	17.3
12	1.5	S	4.0	6.7	5.3	17.9	17.2	14.6	17.5	16.3	16.2	18.6	12.5	15.9	14.9	11.3	11.1	6.9	12.4	11.0	7.4	8.8	7.6	12.3	11.6	18.6
13	8.8	S	9.0	12.1	7.0	5.7	5.5	2.3	8.2	8.7	9.3	8.8	8.7	11.1	15.1	10.1	4.2	2.7	3.0	1.7	10.1	4.8	2.9	2.9	7.1	15.1
14	4.3	S	4.7	8.5	5.3	6.0	7.2	6.8	7.1	6.4	5.2	6.5	9.3	11.4	9.4	12.1	11.5	7.1	7.3	8.8	9.8	9.4	12.1	4.5	7.8	12.1
15	2.2	S	2.4	2.3	1.7	1.5	2.5	2.4	3.3	4.2	4.6	4.9	9.8	11.0	19.4	22.6	19.5	16.2	14.0	12.5	9.1	3.1	1.6	4.3	7.6	22.6
16	9.5	S	0.9	1.7	5.8	8.4	9.1	7.4	9.2	4.3	6.7	6.8	7.1	7.6	6.6	6.9	8.7	6.1	1.6	1.7	2.1	5.0	6.1	9.3	6.0	9.5
17	7.2	S	9.3	10.0	9.3	8.7	9.5	6.7	15.8	10.1	8.3	5.4	3.0	3.4	3.0	3.0	2.6	1.9	1.2	1.0	1.3	1.0	2.0	2.3	5.5	15.8
18	3.2	S	11.2	8.7	5.3	7.5	6.8	5.7	2.5	3.6	4.7	4.4	8.1	7.7	3.7	2.8	2.9	1.6	3.1	2.0	6.7	9.2	11.6	11.1	5.8	11.6
19	10.8	S	3.3	2.6	3.1	5.3	8.9	7.8	6.0	5.1	6.7	4.3	4.5	1.8	2.9	2.0	5.9	4.7	7.3	8.5	10.9	12.9	4.5	9.9	6.1	12.9
20	7.5	S	3.9	3.1	3.2	4.4	5.8	4.1	7.5	13.8	11.3	8.9	9.0	7.9	5.0	7.1	11.0	13.1	3.9	7.7	4.2	3.7	3.9	9.4	6.9	13.8
21	16.3	S	2.4	1.0	0.7	1.2	1.4	1.1	1.0	1.2	0.9	0.9	1.0	0.8	2.7	9.1	5.3	3.0	1.6	2.2	1.9	3.0	2.5	1.1	2.7	16.3
22	1.5	S	6.8	5.1	7.4	3.5	3.6	4.4	8.0	6.5	3.5	7.5	3.2	1.2	1.2	2.2	1.2	1.2	0.9	1.0	3.9	2.0	3.6	7.9	3.8	8.0
23	4.2	S	3.5	4.4	4.2	4.0	6.8	9.2	8.3	16.4	2.6	7.9	15.9	22.3	20.2	12.5	14.7	5.3	4.6	6.5	2.6	7.5	3.2	3.0	8.3	22.3
24	17.9	S	9.5	12.0	21.9	15.5	12.6	20.5	26.8	20.6	16.2	2.4	2.0	3.2	4.9	9.8	1.6	1.0	1.0	2.7	9.3	7.2	8.4	4.8	10.1	26.8
25	1.3	S	2.8	2.1	5.4	3.3	1.1	1.5	5.6	5.3	5.9	2.9	2.3	3.8	3.7	3.5	3.1	2.9	2.4	1.7	3.6	4.5	6.6	3.8	3.4	6.6
26	2.8	S	6.9	12.2	2.4	1.1	1.3	7.2	10.1	10.3	10.4	4.3	3.9	1.8	5.0	6.2	6.5	5.7	2.6	2.7	6.8	6.6	9.3	13.2	6.1	13.2
27	12.7	S	15.4	4.1	4.4	8.4	9.4	9.0	13.3	15.1	4.6	1.9	4.0	1.6	3.8	3.2	3.4	3.3	4.6	5.2	1.8	2.9	7.7	4.0	6.3	15.4
28	5.7	S	5.4	3.5	3.8	3.4	3.9	4.5	9.2	11.7	9.3	8.2	6.9	6.9	4.9	9.9	9.2	9.1	9.6	7.0	4.9	5.5	6.0	5.3	6.7	11.7
29	5.4	S	3.2	6.0	6.1	7.0	2.6	8.1	11.5	7.7	12.5	7.2	11.1	4.8	2.6	7.6	12.4	8.2	5.1	4.9	7.8	6.7	3.8	3.2	6.8	12.5
30	5.9	S	2.0	4.2	1.5	2.1	6.1	7.9	6.1	4.4	4.3	6.9	4.2	6.1	4.9	3.4	1.6	3.2	6.5	5.5	3.7	4.4	8.5	10.2	5.0	10.2
NO.	30	-	30	30	30	30	30	30	30	30	29	28	28	28	29	29	30	30	30	30	30	30	30	30	681	100%
MEAN	7.4	-	6.0	6.3	6.2	6.4	7.7	8.1	10.0	9.1	7.8	6.3	6.2	6.2	5.7	6.5	6.3	5.6	6.0	5.8	6.5	5.6	6.1	6.3		
MAX	20.6	-	15.4	14.7	21.9	17.9	19.1	20.9	26.8	20.6	16.2	18.6	17.2	22.3	20.2	22.6	19.5	16.2	17.5	17.5	12.6	13.1	15.2	13.9		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	681
Maximum 1-HR Average	26.8 PPB
Maximum 24-HR Average	11.6 PPB
Monthly Calibration	6
Standard Deviation	4.6
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	6.7 PPB

Lagoon NOx (ppb) – November 2021

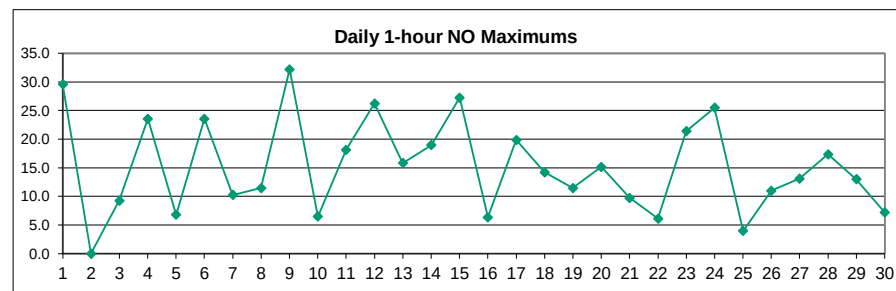
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	21.8	S	26.8	34.8	47.4	33.4	30.3	24.8	41.0	33.5	27.3	O	O	O	6.7	6.4	8.9	9.7	11.3	21.6	22.9	8.3	7.1	6.7	21.5	47.4
2	8.1	S	16.8	8.2	7.0	5.9	6.7	6.4	9.1	11.5	C	C	C	C	C	C	14.7	13.1	13.4	13.6	18.1	18.6	26.9	15.4	-	-
3	20.4	S	13.4	6.1	6.8	6.3	13.5	16.7	22.7	14.6	12.8	4.3	1.8	2.2	2.0	1.8	1.4	1.8	2.4	3.2	1.2	3.2	3.9	6.7	7.4	22.7
4	1.1	S	10.3	7.2	4.0	9.0	16.5	26.9	38.9	41.5	34.2	24.7	20.3	20.4	9.6	5.4	1.7	3.8	1.3	0.7	1.8	1.6	3.3	2.7	12.5	41.5
5	1.3	S	1.2	1.7	4.8	15.3	19.5	10.3	6.5	2.0	1.2	2.2	0.9	1.1	1.1	1.5	1.8	8.9	4.8	12.3	16.3	9.3	12.0	0.8	5.9	19.5
6	13.1	S	2.9	4.3	7.3	2.6	11.5	7.1	13.7	9.9	10.4	13.0	12.9	20.9	11.8	8.4	5.5	14.4	41.0	10.8	15.9	9.1	11.1	12.6	11.7	41.0
7	9.7	S	1.0	12.6	6.1	4.4	3.7	10.1	6.8	1.4	3.2	1.9	0.8	0.8	0.8	22.1	4.6	6.6	16.4	7.7	10.3	5.6	7.1	4.5	6.4	22.1
8	9.6	S	13.8	15.2	6.3	3.8	7.7	9.5	18.8	13.8	13.3	4.6	3.9	1.3	2.9	2.6	10.7	5.3	12.0	7.0	7.6	5.7	14.4	25.2	9.4	25.2
9	30.1	S	5.9	25.0	37.1	27.1	37.9	53.0	33.9	33.8	33.8	24.1	34.2	14.0	3.3	7.3	6.0	2.8	3.9	6.4	20.7	8.1	8.5	10.2	20.3	53.0
10	6.9	S	4.1	1.6	9.1	5.3	8.6	2.8	4.9	6.4	6.1	15.1	3.9	4.2	3.3	1.8	1.6	2.2	2.9	1.8	2.9	2.4	3.6	5.6	4.6	15.1
11	22.4	S	16.2	7.7	11.1	17.9	35.2	31.7	21.4	20.2	13.0	13.0	4.3	4.2	3.2	4.9	6.2	13.2	14.6	11.2	9.3	4.9	8.0	6.0	13.0	35.2
12	1.7	S	6.9	11.0	8.7	40.5	39.3	32.2	38.5	39.3	37.3	44.7	20.5	28.0	18.6	12.8	11.9	8.3	19.2	13.6	7.6	10.1	9.3	21.7	20.9	44.7
13	13.5	S	13.5	27.9	11.2	9.9	6.7	2.6	12.3	12.1	14.7	15.3	14.2	19.7	27.8	14.8	4.9	2.8	3.2	1.6	16.8	4.7	2.7	3.2	11.1	27.9
14	6.4	S	6.3	9.9	5.6	11.5	12.6	12.5	11.8	10.1	8.7	10.5	17.3	24.3	18.7	27.7	30.4	13.6	12.6	11.8	18.7	11.7	18.5	5.0	13.7	30.4
15	2.4	S	2.5	2.6	1.6	1.4	2.4	2.5	3.7	5.2	5.6	7.0	17.4	17.0	36.7	49.9	33.9	26.5	16.9	15.1	12.3	3.5	1.7	7.1	11.9	49.9
16	15.7	S	0.8	2.4	10.1	14.4	15.2	11.4	15.1	6.0	10.6	10.1	12.0	12.9	10.5	9.6	11.1	7.6	1.7	1.6	2.1	8.0	11.1	14.9	9.3	15.7
17	11.4	S	15.6	19.4	18.0	14.9	17.5	10.5	35.6	20.8	15.5	9.1	4.5	5.1	4.6	4.2	3.2	2.3	1.3	0.9	1.3	0.9	2.5	3.0	9.7	35.6
18	4.6	S	25.3	18.4	11.5	14.5	15.1	10.8	2.9	7.6	7.6	7.0	15.6	12.8	5.2	3.6	3.8	1.9	4.1	2.1	8.9	19.5	22.0	22.0	10.7	25.3
19	22.0	S	4.8	3.3	4.1	8.3	16.6	13.3	7.7	6.8	11.3	7.0	7.4	2.1	4.0	2.1	8.1	5.5	8.2	10.4	17.3	22.5	5.2	17.0	9.3	22.5
20	10.9	S	4.9	3.7	3.8	5.2	7.6	5.8	11.5	23.9	18.2	14.5	14.6	12.8	8.1	11.1	21.4	28.1	5.0	15.1	5.4	4.5	4.6	9.9	10.9	28.1
21	17.3	S	2.4	1.1	0.6	1.3	1.5	1.2	0.9	1.3	0.9	0.8	1.0	0.7	3.9	18.7	7.9	3.3	1.6	2.3	2.0	3.4	2.8	1.0	3.4	18.7
22	1.5	S	12.8	7.0	12.4	4.1	4.3	5.3	11.1	8.7	4.3	10.7	4.2	1.4	1.3	2.6	1.3	1.2	0.9	0.9	4.6	2.0	4.2	10.1	5.1	12.8
23	5.0	S	3.7	5.7	5.1	4.8	8.7	12.8	10.8	28.0	2.8	11.4	26.2	43.8	39.8	16.6	20.9	5.6	5.0	8.0	2.5	8.7	3.5	3.1	12.3	43.8
24	21.2	S	17.9	20.4	33.5	29.1	22.9	44.8	52.5	36.0	31.2	3.4	2.7	4.3	8.3	18.6	2.0	1.2	0.9	4.2	15.4	10.8	13.7	6.3	17.4	52.5
25	1.3	S	3.6	2.5	7.6	4.4	1.2	1.6	8.2	7.1	8.2	4.0	3.0	5.2	5.1	4.9	4.2	3.9	3.0	1.8	4.7	6.2	10.5	5.2	4.7	10.5
26	4.2	S	10.8	23.2	2.8	1.3	1.6	11.7	14.9	17.4	16.0	5.4	5.2	2.3	7.0	8.3	8.1	8.1	2.8	2.7	6.9	6.8	10.8	14.4	8.4	23.2
27	13.5	S	27.7	4.3	4.4	9.9	10.5	11.4	17.8	28.2	6.0	2.3	5.3	1.8	5.3	4.0	4.1	3.9	5.7	7.2	1.8	3.2	11.6	4.5	8.5	28.2
28	8.8	S	7.3	4.2	4.6	4.1	4.8	6.1	16.8	29.0	21.2	17.8	13.0	12.3	7.0	13.7	11.1	11.3	15.2	7.8	5.2	5.8	6.5	5.7	10.4	29.0
29	6.3	S	3.3	7.6	7.6	10.0	3.3	13.3	16.2	10.4	25.3	12.5	18.6	6.0	3.2	8.7	15.9	10.2	5.6	6.6	10.8	9.8	4.0	3.6	9.5	25.3
30	7.8	S	2.3	5.3	1.7	2.6	8.0	10.9	8.3	6.1	5.4	9.5	5.2	8.2	6.1	4.1	1.6	4.1	9.7	8.3	4.6	6.0	13.3	17.2	6.8	17.2
NO.	30	-	30	30	30	30	30	30	30	30	29	28	28	28	29	29	30	30	30	30	30	30	30	30	681	100%
MEAN	10.7	-	9.5	10.1	10.0	10.8	13.0	14.0	17.1	16.4	14.0	10.9	10.4	10.3	9.2	10.3	9.0	7.7	8.2	7.3	9.2	7.5	8.8	9.0		
MAX	30.1	-	27.7	34.8	47.4	40.5	39.3	53.0	52.5	41.5	37.3	44.7	34.2	43.8	39.8	49.9	33.9	28.1	41.0	21.6	22.9	22.5	26.9	25.2		



Number of Non-Zero Readings	681
Maximum 1-HR Average	53.0 PPB
Maximum 24-HR Average	21.5 PPB
Monthly Calibration	6
Standard Deviation	9.414
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	10.6 PPB

Lagoon NO (ppb) – November 2021

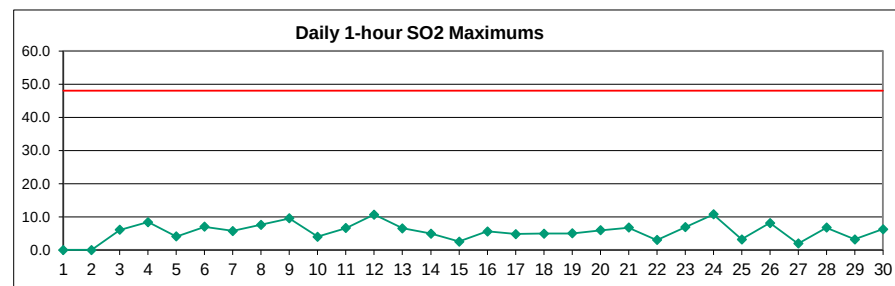
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	9.3	S	13.8	20.3	29.6	19.2	15.9	11.8	24.2	19.6	14.9	O	O	O	2.1	1.6	1.6	0.9	0.7	4.3	10.4	2.0	1.2	1.4	10.2	29.6
2	2.0	S	7.2	2.3	1.8	0.8	1.1	0.8	2.1	4.8	C	C	C	C	C	3.8	2.0	2.5	2.2	6.8	5.5	11.7	4.2	-	-	
3	8.4	S	4.5	0.7	1.0	0.8	3.8	5.2	9.2	4.3	3.7	1.0	0.4	0.5	0.5	0.3	0.2	0.2	0.7	0.9	0.2	0.7	0.8	1.7	2.2	9.2
4	0.0	S	2.8	2.3	1.0	3.8	7.5	12.7	19.5	23.6	18.8	11.9	10.1	9.7	3.3	1.6	0.4	1.0	0.2	0.1	0.5	0.2	1.0	0.8	5.8	23.6
5	0.2	S	0.2	0.4	1.4	6.3	6.8	2.7	1.6	0.5	0.4	0.6	0.3	0.2	0.2	0.4	0.4	3.1	0.5	3.0	4.9	1.8	4.7	0.0	1.8	6.8
6	6.2	S	0.5	0.8	2.3	0.4	4.6	1.4	4.8	3.9	4.6	6.0	5.5	10.5	4.5	2.2	0.8	5.8	23.6	2.1	5.6	2.4	4.7	4.6	4.7	23.6
7	2.9	S	0.0	4.1	0.8	0.8	0.4	2.7	1.4	0.2	1.2	0.5	0.2	0.1	0.1	10.2	1.1	0.9	2.8	0.8	1.4	0.2	0.9	0.0	1.5	10.2
8	0.7	S	2.4	0.9	0.3	0.4	1.3	2.2	6.8	4.8	4.9	1.9	1.5	0.3	0.8	0.4	2.7	1.2	2.5	0.4	0.9	0.9	5.6	11.4	2.4	11.4
9	9.6	S	0.8	12.6	20.0	13.6	18.8	32.2	15.3	16.6	18.8	11.2	17.1	4.4	0.7	2.3	1.3	0.2	1.0	2.2	9.3	2.7	3.1	4.0	9.5	32.2
10	2.1	S	1.3	0.3	3.7	1.4	3.4	0.8	1.3	1.6	2.1	6.5	1.0	1.3	1.0	0.5	0.4	0.6	0.5	0.4	0.2	0.2	0.5	1.2	1.4	6.5
11	10.7	S	6.4	1.9	3.1	8.3	18.1	16.4	9.0	8.3	4.0	6.4	1.4	1.5	0.9	0.9	0.9	4.1	4.2	2.1	2.6	1.3	2.1	1.5	5.0	18.1
12	0.3	S	3.0	4.5	3.6	22.6	22.1	17.7	21.2	23.0	21.2	26.2	8.2	12.3	3.8	1.7	0.9	1.5	6.9	2.7	0.4	1.4	1.8	9.4	9.4	26.2
13	4.7	S	4.6	15.8	4.3	4.3	1.3	0.3	4.2	3.6	5.6	6.7	5.6	8.8	12.8	4.9	0.8	0.3	0.3	0.1	6.8	0.1	0.0	0.4	4.2	15.8
14	2.2	S	1.7	1.5	0.5	5.6	5.6	5.8	4.8	3.8	3.6	4.1	8.2	13.0	9.5	15.7	19.0	6.6	5.5	3.2	9.0	2.4	6.4	0.6	6.0	19.0
15	0.2	S	0.1	0.4	0.0	0.0	0.0	0.1	0.4	1.0	1.0	2.1	7.8	6.3	17.3	27.3	14.5	10.4	3.1	2.7	3.3	0.6	0.2	2.8	4.4	27.3
16	6.3	S	0.0	0.9	4.3	6.1	6.3	4.2	6.1	1.9	4.2	3.6	5.1	5.6	4.1	3.0	2.7	1.8	0.3	0.2	0.2	3.3	5.1	5.8	3.5	6.3
17	4.5	S	6.5	9.8	9.0	6.5	8.3	4.1	19.9	10.9	7.4	3.9	1.6	1.8	1.8	1.3	0.7	0.5	0.2	0.1	0.2	0.1	0.6	0.8	4.4	19.9
18	1.6	S	14.2	9.8	6.4	7.2	8.5	5.2	0.5	4.1	3.0	2.8	7.7	5.2	1.5	0.8	0.9	0.4	1.1	0.2	2.4	10.4	10.6	11.1	5.0	14.2
19	11.5	S	1.7	0.9	1.2	3.2	7.8	5.7	2.0	1.9	4.8	2.8	3.1	0.5	1.3	0.3	2.4	1.0	1.0	2.1	6.5	9.7	0.8	7.2	3.5	11.5
20	3.5	S	1.1	0.7	0.6	0.9	1.9	1.8	4.1	10.2	7.0	5.8	5.7	5.0	3.1	4.1	10.4	15.1	1.2	7.6	1.4	0.9	0.8	0.7	4.1	15.1
21	1.2	S	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.1	0.1	0.0	0.1	0.0	1.3	9.7	2.7	0.5	0.2	0.3	0.3	0.6	0.5	0.1	0.8	9.7
22	0.1	S	6.1	1.9	5.0	0.7	0.8	1.1	3.3	2.3	0.9	3.4	1.1	0.4	0.3	0.6	0.3	0.2	0.2	0.1	0.9	0.2	0.8	2.4	1.4	6.1
23	1.0	S	0.4	1.4	1.0	0.9	2.1	3.7	2.5	11.6	0.3	3.5	10.3	21.4	19.5	4.2	6.2	0.3	0.4	1.5	0.0	1.3	0.3	0.2	4.1	21.4
24	3.3	S	8.4	8.4	11.5	13.6	10.3	24.2	25.5	15.3	14.9	0.9	0.7	1.1	3.4	8.8	0.4	0.2	0.0	1.5	6.2	3.7	5.4	1.5	7.4	25.5
25	0.0	S	0.9	0.4	2.2	1.1	0.1	0.2	2.7	1.9	2.3	1.0	0.7	1.4	1.3	1.3	0.9	0.8	0.5	0.0	1.0	1.7	4.0	1.5	1.2	4.0
26	1.4	S	3.9	11.0	0.5	0.3	0.3	4.6	4.9	7.2	5.7	1.3	1.4	0.5	2.1	2.2	1.7	2.4	0.3	0.1	0.3	0.4	1.7	1.4	2.4	11.0
27	1.0	S	12.4	0.3	0.1	1.7	1.3	2.6	4.5	13.1	1.5	0.4	1.4	0.3	1.5	0.9	0.8	0.6	1.2	2.1	0.2	0.5	4.0	0.5	2.3	13.1
28	3.3	S	2.0	0.8	0.9	0.8	1.0	1.6	7.7	17.4	12.0	9.8	6.3	5.6	2.5	4.2	2.3	2.5	6.0	1.0	0.6	0.6	0.7	0.7	3.9	17.4
29	1.1	S	0.4	1.8	1.7	3.1	0.8	5.4	4.8	2.8	13.0	5.4	7.6	1.3	0.7	1.2	3.5	2.1	0.6	1.8	3.2	3.2	0.3	0.5	2.9	13.0
30	2.0	S	0.4	1.1	0.2	0.6	2.0	3.0	2.3	1.8	1.1	2.7	1.1	2.2	1.3	0.7	0.1	1.0	3.3	2.9	1.0	1.8	4.9	7.2	1.9	7.2
NO.	30	-	30	30	30	30	30	30	30	30	29	28	28	28	29	29	30	30	30	30	30	30	30	30	681	100%
MEAN	3.4	-	3.6	3.9	3.9	4.5	5.4	6.0	7.2	7.4	6.3	4.7	4.3	4.3	3.6	3.9	2.8	2.3	2.4	1.6	2.9	2.0	2.8	2.9		
MAX	11.5	-	14.2	20.3	29.6	22.6	22.1	32.2	25.5	23.6	21.2	26.2	17.1	21.4	19.5	27.3	19.0	15.1	23.6	7.6	10.4	10.4	11.7	11.4		



Number of Non-Zero Readings	672		
Maximum 1-HR Average	32.2 PPB		
Maximum 24-HR Average	10.2 PPB		
Monthly Calibration	6	Operational Time	717 HRS
Standard Deviation	5.224	Operational Uptime	99.6 %
		Monthly Average	4.0 PPB

Lagoon SO₂ (ppb) – November 2021

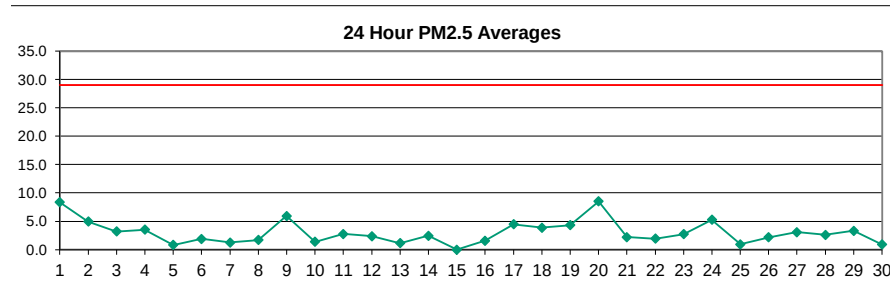
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	5.2	S	11.6	12.2	20.6	13.2	9.8	3.0	13.8	10.9	8.2	2.1	3.8	C	C	EC	EC	EC	EC	EC	EC	EC	EC	EC	-	-
2	EC	EC	EC	EC	EC	EC	EC	EC	EC	C	C	C	C	C	C	2.7	2.0	2.1	2.3	2.6	4.2	5.8	10.7	5.5	-	-
3	6.1	S	4.0	1.8	1.8	2.0	0.8	2.7	1.6	2.4	2.4	0.8	0.9	0.0	0.8	1.0	1.2	1.0	0.6	0.7	0.7	0.7	1.1	1.3	1.6	6.1
4	1.0	S	4.7	3.6	1.9	1.8	2.4	2.3	5.2	7.6	8.4	4.5	3.6	4.4	2.4	2.7	1.2	1.1	1.3	0.9	1.3	1.3	2.8	2.3	3.0	8.4
5	1.1	S	1.3	1.6	2.0	2.7	4.1	2.0	0.8	0.9	1.2	0.7	1.2	1.1	0.7	0.8	0.7	1.2	1.2	3.6	1.5	2.1	2.7	0.8	1.6	4.1
6	5.4	S	1.0	0.6	1.1	0.7	2.1	0.7	4.3	1.7	2.6	2.8	5.0	7.0	2.2	3.2	1.5	3.5	1.7	1.7	3.5	1.6	1.6	2.6	2.5	7.0
7	3.3	S	0.9	1.0	1.4	0.8	0.8	1.8	0.8	1.0	1.7	0.7	0.8	0.9	0.4	5.7	1.4	0.4	0.4	0.4	1.5	1.3	1.4	0.9	1.3	5.7
8	1.0	S	1.2	2.7	1.3	1.0	0.4	1.0	0.8	0.8	1.4	0.4	0.5	0.9	0.5	0.6	1.3	0.3	0.7	0.9	0.5	1.1	3.9	7.6	1.3	7.6
9	5.8	S	1.1	5.1	9.5	4.8	7.9	9.3	5.6	4.6	7.9	4.7	6.8	2.4	1.2	2.5	1.8	1.5	1.0	2.6	7.3	5.2	4.2	4.7	4.7	9.5
10	4.0	S	2.2	0.9	0.8	0.9	1.1	0.6	0.6	0.5	1.7	2.7	1.1	1.1	1.1	0.6	0.2	0.3	0.2	0.5	0.6	0.1	0.0	0.9	1.0	4.0
11	3.0	S	2.8	1.3	1.2	3.1	6.6	2.4	1.8	2.0	1.4	3.0	0.9	0.6	0.3	0.0	0.4	1.1	1.0	1.9	2.3	0.9	1.1	0.4	1.7	6.6
12	0.5	S	1.3	0.7	2.0	10.0	10.4	8.7	10.7	8.6	8.7	9.9	3.6	4.6	1.7	1.0	1.3	0.5	2.3	2.0	0.8	1.6	1.0	3.0	4.1	10.7
13	2.9	S	2.7	1.3	1.0	0.8	1.2	1.0	0.5	1.0	1.8	1.4	1.6	4.3	6.5	5.1	1.0	0.4	0.8	1.2	0.1	0.5	0.3	0.6	1.6	6.5
14	1.2	S	0.5	0.2	1.0	2.9	2.7	2.4	2.6	1.3	2.0	2.5	3.6	4.9	3.3	3.1	3.8	1.9	2.4	2.0	2.6	0.6	1.3	1.6	2.2	4.9
15	0.6	S	1.3	1.2	1.5	1.3	1.1	1.2	1.9	0.6	1.0	1.0	1.5	1.2	1.7	2.4	2.3	1.7	1.9	2.5	1.6	1.7	1.7	2.1	1.5	2.5
16	5.5	S	1.6	1.3	2.6	3.8	3.3	1.6	2.4	0.9	1.3	1.9	2.3	2.5	1.6	1.5	1.4	1.2	0.3	0.6	0.7	0.9	1.0	1.5	1.8	5.5
17	1.6	S	2.2	3.1	2.6	1.6	2.0	1.0	4.8	2.5	1.8	0.2	0.3	0.5	0.4	0.7	0.2	0.5	0.3	0.2	0.6	0.7	0.6	0.9	1.3	4.8
18	0.7	S	4.9	3.9	3.0	3.2	3.5	2.3	1.5	0.9	0.6	1.3	2.4	1.6	1.1	0.8	1.0	0.9	0.8	1.2	2.2	2.9	4.4	4.6	2.2	4.9
19	5.0	S	1.1	0.6	1.1	1.9	2.4	1.6	0.4	0.8	1.5	1.3	1.6	1.0	0.5	0.4	0.6	1.1	1.3	1.5	2.6	3.0	0.8	1.9	1.5	5.0
20	2.0	S	1.1	1.1	0.6	0.9	0.7	1.6	3.3	5.9	3.9	1.8	3.4	3.9	2.3	4.4	5.5	0.5	0.6	0.7	0.9	1.1	0.6	0.8	2.1	5.9
21	0.8	S	0.6	1.0	0.7	0.0	0.1	0.5	0.5	0.6	0.5	0.5	0.4	0.5	1.4	6.7	2.1	0.1	0.3	1.0	0.5	0.9	0.6	0.9	0.9	6.7
22	0.2	S	2.0	0.9	3.0	0.8	0.8	0.8	0.7	0.3	0.7	1.3	1.6	0.5	0.9	1.2	1.5	0.8	1.2	0.4	2.4	1.6	1.2	0.9	1.1	3.0
23	1.4	S	0.8	1.4	1.8	1.5	2.4	2.4	1.5	6.9	1.3	0.5	1.8	1.5	0.9	1.1	1.3	1.2	1.2	0.6	0.6	0.8	0.9	0.6	1.5	6.9
24	0.7	S	0.6	0.6	1.5	4.8	4.3	9.5	5.5	3.3	6.3	0.6	1.1	0.3	2.6	7.5	0.9	0.8	0.5	2.1	10.7	7.5	7.8	1.5	3.5	10.7
25	0.8	S	1.5	1.0	2.8	1.6	1.7	1.0	0.8	1.2	0.7	0.4	0.9	0.7	0.7	0.8	0.3	0.9	0.7	1.6	1.1	1.9	3.2	2.0	1.2	3.2
26	1.4	S	2.0	8.1	1.5	1.3	1.1	1.4	1.5	1.1	2.5	1.0	0.9	1.2	2.5	2.4	2.1	2.2	1.8	0.8	1.3	0.8	1.6	1.6	1.8	8.1
27	1.0	S	1.2	1.1	1.3	0.7	0.8	0.3	1.4	0.9	0.6	0.9	0.8	0.3	1.1	0.8	0.2	0.6	1.9	0.8	0.5	0.6	1.0	0.9	0.9	1.9
28	1.4	S	2.5	1.6	0.4	1.4	1.4	1.5	3.0	6.7	4.8	4.3	3.1	3.2	1.3	2.0	1.6	1.5	2.0	1.3	1.0	1.5	0.7	0.5	2.1	6.7
29	1.0	S	0.7	1.7	1.4	1.9	1.0	0.6	1.2	0.8	3.2	1.7	0.9	0.7	0.7	0.8	1.7	0.8	0.8	1.3	0.9	1.1	0.4	1.2	1.1	3.2
30	0.9	S	1.3	0.9	0.5	1.6	1.7	0.8	1.7	0.8	1.7	1.5	0.9	1.4	1.3	1.2	0.8	2.6	6.3	3.5	2.1	2.2	4.5	4.5	1.9	6.3
NO.	29	-	29	29	29	29	29	29	29	29	29	29	29	28	28	29	29	29	29	29	29	29	29	29	665	98%
MEAN	2.3	-	2.1	2.2	2.5	2.5	2.7	2.3	2.8	2.7	2.8	2.0	2.0	1.9	1.5	2.2	1.4	1.1	1.3	1.4	2.0	1.8	2.2	2.0		
MAX	6.1	-	11.6	12.2	20.6	13.2	10.4	9.5	13.8	10.9	8.7	9.9	6.8	7.0	6.5	7.5	5.5	3.5	6.3	3.6	10.7	7.5	10.7	7.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	663
Maximum 1-HR Average	10.7 PPB
Maximum 24-HR Average	4.7 PPB
Monthly Calibration	8
Standard Deviation	2.213
Operational Time	702 HRS
Operational Uptime	97.5 %
Monthly Average	2.1 PPB

Lagoon PM_{2.5} (µg/m³) – November 2021

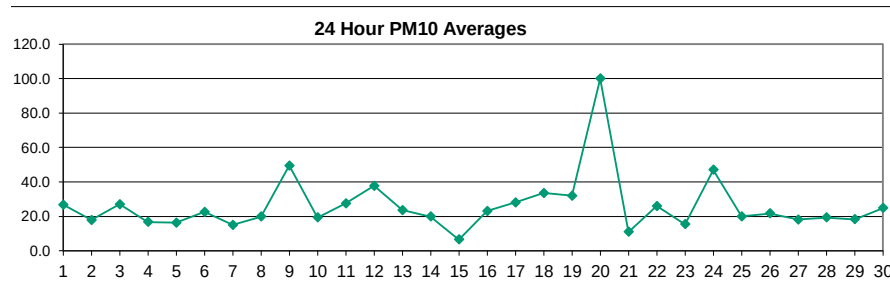
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	5.7	8.7	14.4	14.2	15.5	20.0	16.4	15.6	11.0	18.0	15.4	13.2	9.8	5.3	2.8	0.4	0.0	1.5	1.9	3.1	4.6	2.8	0.0	0.0	8.3	20.0
2	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.8	2.3	13.7	8.2	1.6	3.3	19.6	15.9	10.2	6.3	8.6	6.6	7.9	5.6	4.9	19.6
3	2.5	1.9	6.9	6.5	5.1	5.4	5.1	5.6	4.3	3.8	11.3	7.4	3.5	0.7	0.0	0.0	0.0	0.0	0.0	1.2	1.5	1.1	0.5	2.0	3.2	11.3
4	4.1	4.5	5.8	5.3	3.2	2.2	2.1	5.1	4.9	7.8	11.0	7.0	3.0	4.5	5.3	2.1	0.0	0.4	0.5	2.3	2.7	0.0	0.4	0.0	3.5	11.0
5	0.0	1.2	1.4	0.0	0.0	0.0	0.0	2.8	0.7	0.0	1.4	0.0	0.0	0.0	0.0	1.8	1.4	0.1	0.5	1.5	1.2	2.2	2.2	1.2	0.8	2.8
6	2.1	4.6	2.5	0.4	0.0	0.0	0.0	0.9	2.9	1.4	0.0	0.0	1.7	4.7	3.9	1.6	2.7	3.7	3.9	2.6	3.2	1.0	0.0	1.7	1.9	4.7
7	3.9	2.4	0.1	0.2	1.6	3.3	3.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	3.3	2.8	1.1	0.4	0.0	2.9	1.4	0.0	1.3	3.9
8	0.0	0.0	0.0	0.1	0.8	0.8	1.1	0.1	0.0	0.5	0.9	2.1	0.0	0.0	0.2	2.6	1.9	1.6	3.2	5.8	5.0	2.7	4.9	6.6	1.7	6.6
9	6.8	5.5	5.0	4.1	5.6	12.9	9.0	13.2	15.9	10.1	10.0	8.2	5.6	7.7	8.4	4.1	0.0	0.0	1.2	1.1	0.9	1.9	2.0	3.3	5.9	15.9
10	3.6	2.5	0.8	0.2	1.1	0.0	0.0	0.2	1.5	1.6	2.6	3.2	6.0	3.1	0.2	2.6	1.7	0.0	0.0	0.0	0.0	0.1	0.5	1.3	1.4	6.0
11	3.0	4.3	2.0	0.0	2.9	2.9	3.0	12.3	6.9	3.3	2.5	1.6	3.3	2.2	1.6	3.2	2.2	1.0	0.0	0.3	3.0	2.8	0.9	0.9	2.8	12.3
12	2.7	3.6	1.9	2.3	2.6	2.8	5.5	6.2	6.8	4.3	3.3	2.6	2.9	1.7	0.0	2.6	2.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.8
13	1.3	3.2	1.1	0.5	0.5	1.0	3.9	2.1	0.5	1.1	0.0	0.0	0.0	0.7	4.0	3.2	1.1	0.0	0.0	0.0	0.0	0.0	1.5	1.8	1.1	4.0
14	0.0	0.0	0.0	0.0	0.0	1.2	1.4	5.4	5.1	4.1	0.9	2.5	3.0	2.7	4.8	4.7	3.9	1.3	0.0	0.6	3.6	7.5	4.6	1.4	2.4	7.5
15	0.0	0.0	0.0	X	X	X	X	X	X	X	X	X	X	14.0	7.2	1.4	10.4	8.5	6.1	5.0	2.5	1.7	3.8	0.6	-	-
16	0.0	0.0	0.0	0.0	0.0	0.2	1.5	1.5	1.9	2.8	1.8	5.8	4.7	3.4	4.0	C	C	0.0	2.2	2.2	0.0	0.0	1.2	1.5	1.6	5.8
17	1.5	P	4.0	4.2	6.9	7.1	5.3	7.6	7.0	12.7	8.9	11.3	7.0	2.6	3.4	5.1	5.4	0.9	0.0	0.0	0.0	1.1	0.4	0.0	4.5	12.7
18	0.5	0.9	2.1	6.5	10.7	7.5	6.2	5.8	4.9	1.3	0.0	0.0	2.1	4.8	5.7	4.3	3.5	6.8	4.2	0.4	0.5	1.4	4.6	7.8	3.9	10.7
19	11.1	8.8	4.6	3.0	3.4	4.1	4.6	7.2	6.4	3.9	2.0	6.5	5.5	5.0	3.3	3.0	2.9	1.5	0.5	1.4	4.7	3.9	3.0	3.6	4.3	11.1
20	3.3	6.4	4.1	10.3	11.6	6.2	1.7	6.5	37.1	10.7	23.8	12.4	8.2	11.0	7.0	2.7	4.2	6.2	6.9	6.4	4.6	3.0	4.1	5.9	8.5	37.1
21	6.5	5.9	5.9	2.2	0.9	2.1	0.0	0.0	4.0	3.6	1.8	0.5	0.5	0.7	0.0	0.0	5.8	4.5	1.1	0.8	1.3	3.1	0.5	0.9	2.2	6.5
22	2.1	5.7	4.3	2.3	3.6	2.8	0.9	0.0	0.2	1.4	0.0	0.6	4.8	4.7	3.2	2.1	0.5	0.4	0.0	0.0	1.0	4.2	1.0	0.0	1.9	5.7
23	2.3	2.9	2.2	0.9	2.0	3.4	3.9	2.4	0.0	4.0	3.9	1.5	1.6	3.6	7.6	7.7	4.9	1.9	2.9	1.7	0.0	0.8	1.2	2.0	2.7	7.7
24	3.3	2.6	1.8	1.2	2.5	4.9	12.8	8.8	10.1	14.2	10.0	12.3	5.7	0.0	0.2	2.3	2.8	5.0	3.4	0.0	0.2	8.0	8.5	5.8	5.3	14.2
25	5.4	4.6	1.7	0.0	0.0	0.0	1.2	1.4	0.1	0.2	1.4	0.0	0.4	0.0	0.6	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.4
26	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.4	2.3	3.0	3.8	5.2	5.5	1.7	2.0	3.3	2.6	2.6	2.5	1.5	1.6	2.7	4.8	4.7	2.1	5.5
27	3.7	3.7	3.3	3.4	4.0	3.2	1.9	2.3	2.7	5.0	9.3	7.4	3.5	0.5	1.9	3.9	2.4	0.0	1.0	4.4	4.2	2.0	0.0	0.0	3.1	9.3
28	4.7	3.2	2.1	4.7	2.9	0.0	0.1	1.2	2.7	3.7	3.6	1.9	1.4	0.1	0.2	2.6	2.9	2.6	5.1	4.3	3.0	2.6	3.3	3.6	2.6	5.1
29	2.9	1.3	0.0	0.0	2.3	3.4	4.4	3.6	2.9	2.4	4.6	7.9	5.7	4.3	3.2	2.1	0.6	3.1	6.1	5.2	1.7	2.8	6.3	2.8	3.3	7.9
30	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.3	3.6	1.7	0.0	0.6	2.2	1.1	0.0	0.0	0.8	0.0	0.0	1.6	2.2	1.2	2.7	3.7	0.9	3.7
NO.	30	29	30	29	29	29	29	29	29	29	29	29	29	30	30	29	29	30	30	30	30	30	30	30	707	98%
MEAN	2.8	3.0	2.6	2.5	3.1	3.4	3.3	4.2	5.1	4.5	4.7	4.3	3.8	3.3	2.8	2.6	3.2	2.5	2.2	2.0	2.1	2.3	2.4	2.3		
MAX	11.1	8.8	14.4	14.2	15.5	20.0	16.4	15.6	37.1	18.0	23.8	13.2	13.7	14.0	8.4	7.7	19.6	15.9	10.2	6.4	8.6	8.0	8.5	7.8		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	572
Maximum 1-HR Average	37.1 UG/M3
Maximum 24-HR Average	8.5 UG/M3
Monthly Calibration	2
Standard Deviation	3.634
Operational Time	709 HRS
Operational Uptime	98.5 %
Monthly Average	3.1 UG/M3

Lagoon PM₁₀ (µg/m³) – November 2021

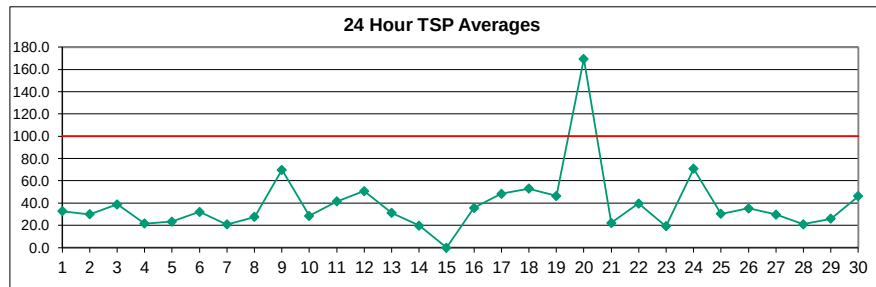
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.7	31.6	29.1	20.3	22.2	30.7	27.1	49.8	55.6	47.6	57.9	52.8	51.9	29.3	31.3	4.6	4.1	6.8	7.9	7.2	34.1	14.9	6.1	7.4	26.8	57.9
2	7.8	14.0	11.8	16.4	13.2	9.3	8.0	16.6	13.3	13.9	11.5	22.6	16.7	34.6	19.8	61.9	25.4	11.8	17.9	14.2	15.4	15.2	21.2	15.1	17.8	61.9
3	9.3	15.8	68.6	30.5	22.2	33.2	37.1	35.7	44.2	40.7	91.1	53.6	14.9	16.2	16.9	8.0	8.9	23.1	24.4	15.4	13.5	13.1	6.6	5.7	27.0	91.1
4	21.1	6.3	38.6	9.2	6.6	5.2	2.7	4.6	15.3	32.7	26.9	25.5	23.8	28.0	42.9	36.3	21.5	10.4	6.3	10.4	14.3	6.9	0.1	3.5	16.6	42.9
5	15.8	9.6	2.9	0.0	0.0	10.3	27.0	55.5	16.0	12.4	8.2	20.1	8.1	9.3	8.2	10.7	9.8	8.9	12.4	28.1	43.0	28.2	24.3	23.3	16.3	55.5
6	10.5	35.2	5.2	4.0	4.9	8.5	6.9	29.1	20.7	35.2	5.8	3.3	15.4	25.8	57.1	33.3	55.7	47.9	24.2	14.5	38.7	10.8	22.4	25.5	22.5	57.1
7	33.7	44.9	7.6	11.5	22.8	23.3	9.8	6.5	13.9	10.5	6.2	8.5	5.0	0.7	1.9	5.4	65.1	35.3	7.2	22.0	7.9	5.1	1.4	3.3	15.0	65.1
8	3.4	4.1	5.5	8.4	13.3	11.8	16.8	15.2	12.7	32.8	38.2	31.6	12.1	12.8	13.6	18.0	26.3	34.3	13.3	41.0	26.2	24.1	30.9	28.3	19.8	41.0
9	35.7	12.6	10.2	22.8	32.0	45.1	33.6	62.9	81.5	66.0	90.9	81.5	71.7	92.6	97.1	54.2	43.5	15.4	16.0	35.9	19.2	52.4	21.0	92.1	49.4	97.1
10	60.0	45.6	38.2	12.5	8.6	5.8	3.6	8.6	6.3	10.7	21.6	33.9	64.7	30.3	29.4	32.7	6.0	6.7	7.6	10.3	4.1	5.9	4.6	6.3	19.3	64.7
11	51.5	37.5	11.4	11.1	5.3	6.1	20.1	47.2	23.9	28.5	40.0	32.0	44.7	13.8	9.2	10.4	16.6	23.1	15.3	23.7	46.6	53.8	31.0	59.2	27.6	59.2
12	34.5	43.0	28.5	100.2	68.6	61.8	57.2	91.5	62.2	61.2	55.2	53.7	55.4	13.3	12.5	18.2	8.2	9.8	6.0	6.6	6.3	12.2	23.0	14.4	37.6	100.2
13	19.4	27.4	12.7	19.7	13.2	39.5	32.1	18.9	0.0	12.0	10.5	27.3	30.7	27.0	59.8	81.4	41.3	11.2	6.5	5.2	23.2	16.3	18.6	14.4	23.7	81.4
14	6.9	0.0	5.2	8.6	7.3	7.7	35.0	53.5	53.7	45.8	22.9	32.3	30.0	23.6	23.9	27.0	16.5	11.1	7.1	13.3	11.0	13.3	10.7	9.1	19.8	53.7
15	4.1	5.3	4.5	2.6	1.3	0.6	1.1	0.0	0.1	2.4	0.0	0.0	X	0.0	1.4	14.6	30.1	14.6	10.5	5.9	4.8	18.8	26.1	1.6	6.5	30.1
16	8.1	18.9	8.5	5.9	4.2	8.5	28.0	62.8	42.1	33.2	14.8	25.7	46.1	46.8	28.9	36.5	C	C	31.8	4.8	5.3	16.8	8.8	22.2	23.1	62.8
17	49.9	P	32.3	20.1	17.4	5.4	6.9	18.3	20.5	44.9	56.8	172.8	47.4	25.6	10.9	13.7	17.0	9.9	27.1	8.4	14.0	11.7	6.0	7.7	28.0	172.8
18	43.7	42.4	86.8	37.2	36.8	31.8	54.7	71.9	32.8	7.5	9.9	18.0	17.3	47.2	73.6	28.9	16.7	23.8	5.7	11.4	12.2	22.8	12.8	57.5	33.5	86.8
19	94.0	28.6	19.9	4.5	1.7	0.0	4.3	20.5	25.2	37.2	33.8	112.6	52.4	43.9	12.0	10.5	11.7	15.4	15.5	36.1	29.3	33.2	37.6	87.4	32.0	112.6
20	107.0	84.8	61.7	136.2	131.8	52.4	23.7	43.6	465.9	183.3	359.8	236.4	91.4	110.2	84.7	64.6	68.9	54.1	12.5	7.8	4.6	3.3	4.1	5.9	99.9	465.9
21	5.4	17.7	19.6	0.0	2.1	5.6	9.4	9.9	6.5	3.2	1.5	5.2	3.2	1.3	1.2	5.2	81.4	10.5	5.6	0.9	6.6	16.5	21.5	22.0	10.9	81.4
22	57.2	30.1	17.1	50.9	32.4	22.0	17.5	6.4	13.4	23.1	34.1	22.4	77.7	82.5	20.3	21.7	22.2	14.0	11.9	7.7	3.6	18.1	5.6	9.9	25.9	82.5
23	17.9	15.4	4.0	4.9	9.4	11.1	27.1	18.6	25.0	34.4	13.3	21.3	27.4	24.2	31.9	22.5	16.3	17.4	5.4	6.1	4.7	2.0	3.4	5.2	15.4	34.4
24	3.2	13.1	6.8	15.7	8.7	19.1	21.9	11.7	25.8	28.4	38.6	37.4	9.2	6.7	19.2	57.7	101.1	92.9	71.9	24.0	51.8	219.7	147.8	95.6	47.0	219.7
25	66.5	67.0	36.1	49.6	25.6	73.7	19.5	9.3	8.1	14.6	11.1	6.2	5.2	4.3	8.5	5.8	2.4	0.1	2.7	3.8	2.2	6.7	17.8	32.2	20.0	73.7
26	7.3	16.3	9.3	30.6	51.6	2.7	1.1	0.0	26.8	14.9	49.9	75.1	11.2	7.2	6.1	27.4	21.8	54.8	23.6	14.6	12.2	37.8	14.7	2.4	21.6	75.1
27	8.8	10.2	11.6	13.1	7.3	2.3	0.0	1.4	3.6	9.4	30.4	29.7	9.2	27.1	20.0	55.8	21.0	52.4	19.9	72.9	6.4	7.8	4.2	11.9	18.2	72.9
28	68.0	22.8	43.1	68.6	19.6	10.8	12.7	24.1	60.0	25.6	3.4	5.0	5.2	3.8	2.0	3.7	9.5	8.0	17.7	10.8	11.5	11.8	8.0	7.4	19.3	68.6
29	8.6	6.4	7.2	5.0	20.8	8.6	23.3	19.2	34.3	32.0	23.4	10.4	35.6	20.8	8.7	8.1	17.1	40.6	30.5	20.7	8.1	18.6	13.5	15.5	18.2	40.6
30	5.5	17.2	0.0	0.4	7.8	4.6	5.8	23.0	23.7	24.6	10.4	37.0	53.6	35.0	44.2	45.9	22.7	10.2	33.4	37.5	22.0	18.3	32.7	78.0	24.7	78.0
NO.	30	29	30	30	30	30	30	30	30	30	30	30	29	30	30	30	29	29	30	30	30	30	30	30	716	100%
MEAN	29.2	24.9	21.5	24.0	20.6	18.6	19.1	27.9	41.1	32.3	39.3	43.1	32.3	28.1	26.6	27.5	27.9	23.3	16.6	17.4	16.7	24.5	19.5	25.7		
MAX	107.0	84.8	86.8	136.2	131.8	73.7	57.2	91.5	465.9	183.3	359.8	236.4	91.4	110.2	97.1	81.4	101.1	92.9	71.9	72.9	51.8	219.7	147.8	95.6		



Number of Non-Zero Readings	704		
Maximum 1-HR Average	465.9 UG/M3		
Maximum 24-HR Average	99.9 UG/M3		
Monthly Calibration	2	Operational Time	718 HRS
Standard Deviation	33.42	Operational Uptime	99.7 %
		Monthly Average	26.2 UG/M3

Lagoon TSP ($\mu\text{g}/\text{m}^3$) – November 2021

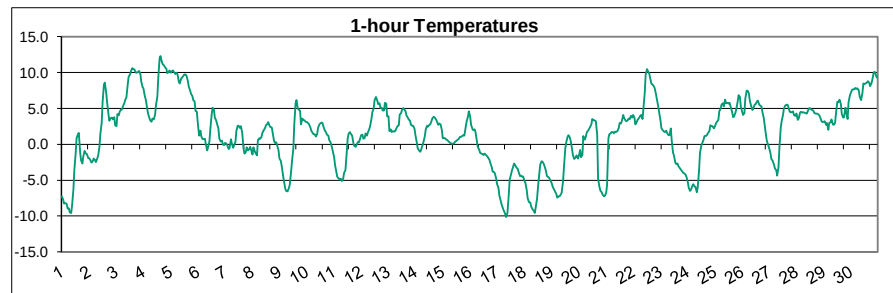
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.2	37.2	31.7	26.1	21.7	33.3	33.4	54.5	59.0	50.0	70.1	62.2	76.8	45.0	51.3	10.1	14.0	12.7	13.2	3.7	33.8	19.0	9.5	5.0	32.7	76.8
2	16.0	24.6	16.3	29.8	37.6	18.4	22.4	23.2	15.2	13.3	24.9	42.1	30.0	60.8	41.5	98.4	36.2	17.5	29.7	17.2	23.5	22.0	36.4	19.1	29.8	98.4
3	13.3	27.2	77.8	38.4	31.6	46.8	60.4	52.8	73.9	64.4	136.5	84.0	33.6	16.3	11.4	14.2	17.8	31.1	17.3	23.3	16.9	21.2	5.0	15.1	38.8	136.5
4	30.5	9.9	49.4	18.9	8.3	4.9	12.7	13.3	11.5	35.2	23.9	24.0	28.5	38.8	57.8	50.5	37.1	9.6	6.3	15.3	13.3	6.8	2.0	8.8	21.5	57.8
5	14.8	5.6	3.0	2.8	0.7	10.4	41.7	80.8	24.7	19.1	13.2	22.1	18.2	8.7	12.9	16.6	12.7	13.4	12.1	47.1	65.0	41.8	43.6	28.9	23.3	80.8
6	5.4	39.5	6.9	3.1	4.5	6.9	6.1	32.0	33.2	51.7	13.8	10.8	26.5	50.0	90.4	56.1	86.4	71.2	36.0	15.3	52.7	11.2	31.7	26.6	32.0	90.4
7	31.0	54.5	18.5	23.5	20.1	27.1	14.8	6.3	15.3	13.4	3.7	14.8	5.7	4.4	5.6	9.5	106.0	51.1	6.0	29.4	11.2	9.6	6.0	9.8	20.7	106.0
8	8.2	3.3	8.5	9.0	16.9	19.0	29.9	19.2	16.0	46.3	53.7	51.3	14.1	15.2	13.6	27.5	23.9	45.6	23.8	64.5	33.2	31.5	44.3	43.0	27.6	64.5
9	61.7	28.7	21.4	28.0	35.5	44.8	32.1	76.4	98.3	78.6	114.7	109.6	92.8	120.0	149.0	78.2	64.2	27.1	16.1	66.4	26.8	92.0	45.8	167.0	69.8	167.0
10	95.6	73.9	57.1	18.8	6.9	4.6	8.5	11.2	10.3	17.7	32.5	44.6	109.2	43.9	37.3	52.5	7.5	12.8	15.1	10.5	4.1	0.2	0.5	10.0	28.6	109.2
11	74.0	58.6	22.1	17.3	3.6	7.8	21.6	71.1	34.9	39.2	62.9	49.4	58.8	23.1	10.4	17.9	15.7	39.1	21.8	37.2	76.2	94.1	51.2	88.5	41.5	94.1
12	44.9	49.8	34.1	145.7	87.1	84.9	92.4	107.6	80.3	78.5	70.3	65.8	80.9	26.4	24.9	29.4	11.5	14.8	5.7	6.0	10.3	17.7	31.2	19.6	50.8	145.7
13	20.2	29.9	18.6	23.3	13.9	33.1	27.6	19.6	0.0	16.1	7.3	34.1	45.3	47.8	100.0	122.2	62.1	15.2	12.4	9.7	27.9	28.3	14.2	16.3	31.0	122.2
14	8.1	4.9	13.4	3.9	11.3	12.6	33.6	58.0	54.4	56.0	22.7	27.5	23.1	20.5	14.2	16.7	14.7	4.0	12.4	8.8	12.6	11.5	15.3	13.3	19.7	58.0
15	1.5	0.1	0.0	3.0	X	X	X	X	X	X	X	X	X	1.7	3.9	19.7	41.5	17.7	11.3	10.7	5.6	4.0	17.1	0.0	-	-
16	9.7	26.7	8.3	6.9	5.5	23.3	41.5	79.4	54.5	56.7	14.4	43.4	69.6	72.0	50.4	56.4	48.5	C	45.1	4.4	10.2	29.1	22.6	41.1	35.6	79.4
17	85.9	P	62.2	38.2	26.9	12.6	11.7	19.0	33.5	58.3	92.9	271.3	82.3	46.8	20.2	29.4	31.7	28.4	55.8	19.0	31.9	29.1	6.3	18.8	48.4	271.3
18	71.2	84.0	154.4	59.7	59.4	37.4	78.3	101.6	45.1	12.6	12.1	25.7	37.6	85.1	136.9	27.0	34.7	32.2	14.4	19.2	15.7	39.8	14.9	73.8	53.0	154.4
19	115.6	39.8	30.4	5.5	1.6	1.8	5.5	23.8	36.1	56.3	54.2	156.6	74.8	70.3	24.3	12.8	16.6	33.9	23.0	53.8	49.1	57.0	61.2	110.5	46.4	156.6
20	169.0	146.8	90.9	209.1	182.9	57.1	38.9	98.0	961.5	310.7	567.8	394.0	140.5	191.6	156.3	109.3	105.6	81.6	17.3	4.7	9.8	8.3	5.9	8.3	169.4	961.5
21	12.5	30.0	20.1	7.1	6.9	4.2	17.0	18.8	7.6	15.3	13.9	11.2	9.8	8.3	6.0	21.9	156.0	21.6	11.0	12.8	17.0	41.0	30.4	30.9	22.1	156.0
22	55.9	39.4	28.5	78.9	54.3	35.4	22.4	11.1	29.6	35.6	49.4	46.1	132.6	84.3	37.6	39.2	41.2	17.0	20.3	11.0	9.4	42.7	15.4	16.2	39.7	132.6
23	27.2	16.8	16.1	5.9	9.3	21.9	35.6	28.5	40.6	44.5	24.7	37.2	31.6	26.8	13.9	11.4	13.2	19.9	4.3	3.4	9.6	5.6	8.2	3.1	19.1	44.5
24	1.1	14.0	14.8	25.3	8.4	27.7	24.4	10.5	9.9	31.6	47.3	46.6	16.7	16.4	35.0	86.2	170.8	92.6	72.0	31.4	101.8	344.4	313.7	157.8	70.9	344.4
25	113.8	73.0	47.1	85.5	40.1	96.4	23.2	15.1	10.0	13.2	20.6	15.2	12.4	9.7	26.8	12.5	9.7	6.9	3.0	1.7	3.6	13.5	27.8	45.9	30.3	113.8
26	4.3	18.9	10.3	43.4	65.4	5.3	1.8	7.3	51.4	33.3	77.9	118.3	21.1	3.6	15.3	45.4	41.1	94.0	45.7	21.7	15.0	70.6	25.5	10.5	35.3	118.3
27	19.3	15.2	12.8	14.8	5.6	3.4	9.9	9.7	7.1	9.9	53.2	56.7	13.2	42.1	30.5	88.9	31.4	83.1	42.7	116.3	18.8	7.0	5.9	13.4	29.6	116.3
28	85.7	21.2	49.1	75.6	23.3	16.0	5.2	20.4	52.3	26.8	9.6	5.5	1.7	3.0	2.9	2.8	19.9	4.8	20.4	13.1	20.3	10.9	5.9	8.5	21.0	85.7
29	8.3	5.9	8.2	5.3	18.9	9.5	24.8	21.2	47.4	49.0	32.1	15.2	53.0	37.2	10.9	7.4	35.6	69.0	41.3	33.3	10.9	26.1	20.4	30.9	25.9	69.0
30	9.3	20.3	10.0	12.0	22.5	4.7	11.0	28.7	40.1	36.3	19.4	62.1	96.9	54.1	75.4	82.3	47.9	39.6	73.3	90.5	52.9	34.6	57.3	125.6	46.1	125.6
NO.	30	29	30	30	29	29	29	29	29	29	29	29	29	30	30	30	30	29	30	30	30	30	30	30	709	99%
MEAN	40.9	34.5	31.4	35.5	28.6	24.5	27.2	38.6	67.4	47.2	60.0	67.2	49.6	42.5	42.2	41.7	45.2	34.7	24.3	26.7	26.3	39.0	32.5	38.9		
MAX	169.0	146.8	154.4	209.1	182.9	96.4	92.4	107.6	961.5	310.7	567.8	394.0	140.5	191.6	156.3	122.2	170.8	94.0	73.3	116.3	101.8	344.4	313.7	167.0		



Number of 24HR Exceedences	1
Number of Non-Zero Readings	706
Maximum 1-HR Average	961.5 UG/M3
Maximum 24-HR Average	169.4 UG/M3
Monthly Calibration	1
Standard Deviation	57.5
Operational Time	710 HRS
Operational Uptime	98.6 %
Monthly Average	39.4 UG/M3

Lagoon Temperature (°C) – November 2021

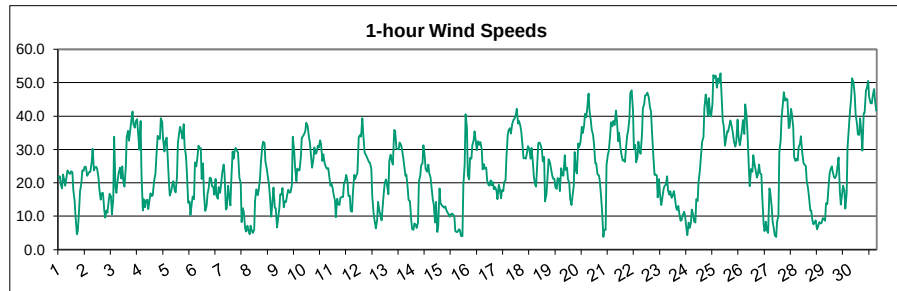
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	-7.2	-7.7	-8.2	-8.2	-8.3	-9.0	-9.0	-9.5	-9.5	-8.5	-6.3	-3.6	-1.2	0.9	1.4	1.6	-1.2	-2.3	-2.6	-1.7	-0.9	-1.2	-1.4	-1.9	-4.4	1.6
2	-1.9	-2.2	-2.5	-2.3	-2.0	-2.2	-2.5	-2.0	-1.6	-0.4	1.5	3.1	5.9	8.4	8.6	7.2	5.9	4.2	3.3	3.6	3.7	3.5	3.8	2.6	1.9	8.6
3	2.5	4.2	4.0	4.5	4.9	4.9	5.4	5.7	6.3	6.5	8.3	9.4	9.7	10.2	10.6	10.5	10.4	10.0	10.0	10.0	10.3	9.9	8.8	8.0	7.7	10.6
4	7.8	6.7	6.3	5.2	4.3	3.7	3.3	3.2	3.6	3.5	4.1	5.5	6.7	9.3	12.0	12.3	11.5	11.1	11.0	10.7	10.5	9.9	10.0	10.3	7.6	12.3
5	10.0	10.2	10.3	10.0	9.8	10.0	9.7	8.7	8.5	9.2	9.3	9.5	9.8	9.7	9.5	8.8	8.0	7.5	7.0	6.7	6.2	6.0	4.6	4.5	8.5	10.3
6	3.0	1.2	1.9	1.1	0.7	0.7	0.8	0.0	-0.9	-0.4	0.4	2.1	4.2	5.1	4.8	3.7	3.4	2.9	2.2	0.9	0.4	0.5	0.0	-0.1	1.6	5.1
7	0.2	0.1	-0.2	-0.7	-0.5	0.7	0.1	-0.5	-0.1	0.3	1.8	2.6	2.6	2.3	2.5	1.7	-0.6	-1.3	-1.1	-0.4	-0.9	-0.7	-0.4	-0.8	0.3	2.6
8	-1.4	-0.4	-1.0	-1.3	-1.5	0.6	0.9	0.8	1.0	1.6	2.0	2.2	2.6	2.9	3.1	2.6	2.4	2.3	1.6	0.4	0.2	0.3	-0.2	-0.8	0.9	3.1
9	-2.0	-2.3	-3.0	-4.3	-5.1	-6.2	-6.5	-6.5	-6.1	-5.6	-3.8	-2.4	-0.6	2.7	5.7	6.2	5.0	4.9	4.6	2.8	3.6	3.4	3.3	3.1	-0.4	6.2
10	3.1	3.1	2.8	2.3	1.9	1.6	1.4	1.4	1.1	1.4	2.3	2.8	2.9	3.0	3.0	2.3	1.9	1.7	1.3	1.2	0.6	0.3	-0.4	-1.0	1.7	3.1
11	-1.9	-3.0	-3.9	-4.6	-4.8	-4.9	-4.8	-5.1	-4.8	-4.0	-3.6	-2.0	0.7	1.5	1.7	1.5	1.2	0.1	-0.3	-0.4	0.0	0.3	0.3	0.9	-1.7	1.7
12	1.3	1.3	0.8	0.9	1.5	1.2	1.6	2.1	2.6	3.5	4.5	5.0	6.2	6.6	6.1	5.6	5.7	5.1	5.1	4.7	4.7	5.8	5.7	3.9	3.8	6.6
13	3.9	1.8	2.1	1.7	1.9	1.8	1.9	2.2	2.5	2.6	4.2	4.3	4.8	5.1	4.9	4.6	4.0	3.7	3.4	3.3	2.7	2.6	2.6	2.2	3.1	5.1
14	1.3	0.3	-0.5	-0.8	-1.1	-0.7	-0.1	0.4	1.2	2.1	2.6	2.5	2.7	2.8	3.3	3.7	3.8	3.7	3.5	3.2	2.7	2.9	2.8	2.0	1.8	3.8
15	0.8	0.9	0.8	0.6	0.6	0.4	0.2	0.2	0.1	0.1	0.2	0.4	0.5	0.6	0.7	1.0	1.1	1.2	1.3	1.2	2.4	3.2	3.9	4.6	1.1	4.6
16	3.9	2.7	2.2	2.0	2.1	1.6	0.4	-0.3	-0.7	-1.2	-1.3	-1.4	-1.5	-1.3	-1.5	-1.7	-1.9	-2.2	-2.6	-3.2	-3.8	-3.9	-4.1	-4.8	-0.9	3.9
17	-5.5	-6.1	-7.1	-7.9	-8.4	-8.9	-9.3	-9.7	-10.1	-9.6	-7.0	-4.9	-4.2	-3.7	-3.1	-2.7	-3.0	-3.3	-3.5	-3.9	-4.4	-4.4	-4.5	-4.5	-5.8	-2.7
18	-5.1	-5.4	-6.4	-7.5	-8.0	-8.2	-8.7	-9.1	-9.2	-9.6	-8.8	-7.6	-6.1	-4.1	-2.9	-2.4	-2.4	-2.7	-3.1	-3.8	-4.4	-4.6	-4.7	-5.0	-5.8	-2.4
19	-5.5	-5.9	-6.3	-6.6	-7.0	-7.4	-7.3	-7.3	-7.0	-6.7	-5.1	-3.1	-0.5	0.2	1.0	1.3	1.0	0.5	-0.7	-1.6	-2.0	-1.8	-1.6	-2.0	-3.4	1.3
20	-1.6	-0.8	-1.8	-1.5	1.2	0.7	0.9	1.7	1.9	2.2	2.4	2.8	3.5	3.4	3.3	3.2	1.4	-4.8	-5.9	-6.5	-6.7	-7.0	-7.3	-7.2	-0.9	3.5
21	-6.7	-5.7	0.9	1.4	1.5	1.7	1.7	1.5	1.8	1.7	1.8	2.3	3.0	2.9	3.3	4.1	3.6	3.3	3.2	3.3	3.6	3.6	4.0	3.7	1.9	4.1
22	4.1	3.7	2.8	3.1	3.4	3.7	4.0	4.1	3.5	5.0	7.3	9.7	10.5	10.3	9.8	9.2	8.4	8.3	8.1	7.9	7.0	6.3	5.3	4.5	6.2	10.5
23	3.3	2.3	2.0	1.8	1.7	1.9	1.5	1.3	1.3	2.2	0.6	-1.2	-1.5	-2.5	-2.7	-2.7	-3.0	-3.3	-3.5	-3.8	-3.9	-4.0	-4.3	-4.6	-0.9	3.3
24	-5.3	-6.1	-6.5	-6.3	-5.8	-5.6	-5.9	-5.9	-6.7	-6.0	-3.6	-1.2	-0.2	0.2	0.6	1.2	1.1	1.3	1.6	1.9	2.6	2.5	2.5	2.2	-2.0	2.6
25	2.5	3.0	3.2	3.4	4.6	5.0	5.5	5.7	5.3	6.2	5.7	5.8	5.7	5.8	5.1	4.6	3.8	3.9	4.4	4.9	6.0	6.8	6.6	5.3	4.9	6.8
26	4.5	4.1	4.3	6.4	7.5	7.5	7.1	6.1	5.3	4.8	5.1	5.6	5.6	6.0	6.1	5.5	5.4	5.3	4.6	3.7	2.8	1.4	0.4	-0.1	4.8	7.5
27	-0.5	-1.2	-2.0	-2.3	-2.8	-3.3	-3.6	-4.4	-3.2	-0.5	2.3	3.2	4.1	5.0	5.4	5.5	5.6	5.2	4.5	4.5	4.4	4.6	4.1	4.0	1.6	5.6
28	4.3	3.4	3.6	4.4	4.5	4.4	4.5	4.4	4.4	4.3	4.6	5.0	5.0	4.9	4.8	4.6	4.4	4.3	4.3	4.2	4.0	3.7	3.2	3.1	4.3	5.0
29	3.2	3.2	2.7	3.0	2.0	3.0	3.1	3.5	2.8	2.7	3.0	4.3	5.9	5.9	6.2	5.6	4.2	3.7	3.8	5.1	4.4	3.5	5.9	6.8	4.1	6.8
30	7.1	7.6	7.6	7.6	7.9	7.7	7.8	7.5	6.6	6.2	7.2	8.5	8.4	8.5	8.6	8.8	8.6	8.1	8.5	9.0	10.0	10.1	9.7	9.3	8.2	10.1
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	0.7	0.4	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.5	1.4	2.3	3.2	3.7	4.1	3.9	3.3	2.7	2.5	2.3	2.2	2.1	2.0	1.6		
MAX	10.0	10.2	10.3	10.0	9.8	10.0	9.7	8.7	8.5	9.2	9.3	9.7	10.5	10.3	12.0	12.3	11.5	11.1	11.0	10.7	10.5	10.1	10.0	10.3		



Number of Non-Zero Readings	720
Maximum 1-HR Average	12.3 C
Maximum 24-HR Average	8.5 C
Monthly Calibration	0
Standard Deviation	4.594
Operational Time	720 HRS
Operational Uptime	100.0 %
Monthly Average	1.7 C

Lagoon Wind Speed (km/hr) – November 2021

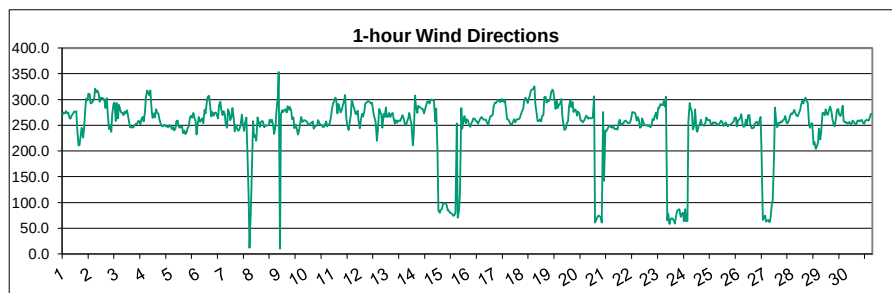
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	21.4	22.0	19.6	18.3	22.5	20.7	19.2	21.8	23.7	23.1	22.6	23.5	23.2	18.0	14.6	9.8	4.5	5.5	12.2	17.4	19.9	23.7	23.6	24.8	19.0	24.8
2	24.7	22.1	22.6	23.4	23.3	26.3	30.1	23.7	24.5	24.8	24.2	21.7	18.2	14.9	16.8	16.9	11.8	9.6	11.8	11.1	14.7	16.7	15.9	10.5	19.2	30.1
3	15.1	33.8	18.6	16.9	20.9	22.9	24.5	21.2	24.9	19.8	18.9	24.8	33.7	35.5	32.6	35.9	38.3	41.4	37.6	36.5	38.4	39.1	34.0	29.9	29.0	41.4
4	38.6	22.2	11.7	15.1	12.6	14.7	15.0	12.1	14.9	16.8	16.0	16.4	20.4	22.8	27.6	34.1	33.3	33.2	39.3	38.3	33.2	29.4	32.4	33.5	24.3	39.3
5	28.6	20.4	16.2	17.4	19.7	20.5	17.6	17.1	21.8	31.8	35.2	36.8	34.8	33.3	37.5	30.9	28.0	23.3	14.0	14.4	10.4	13.9	15.8	15.1	23.1	37.5
6	26.1	24.9	27.0	31.2	30.2	30.4	21.1	25.9	16.6	11.6	13.0	16.6	18.8	21.5	21.3	19.0	18.7	16.5	21.1	16.2	15.3	18.7	17.0	19.3	20.8	31.2
7	23.1	25.5	22.8	12.0	12.4	19.1	16.3	13.2	20.9	29.4	27.2	30.1	30.5	29.5	29.1	21.6	20.0	8.2	12.5	11.1	6.2	5.4	7.1	5.8	18.3	30.5
8	4.5	7.1	5.6	4.9	6.0	14.8	18.0	16.3	17.8	21.5	26.2	30.9	32.3	31.9	26.4	24.2	22.2	19.4	16.0	9.8	13.2	18.5	12.5	12.4	17.2	32.3
9	6.7	9.1	12.2	16.6	16.5	18.4	12.6	14.5	14.3	16.1	18.0	17.0	17.1	19.4	33.8	29.8	25.0	20.4	24.3	23.7	23.7	27.7	33.4	34.1	20.2	34.1
10	34.5	35.5	38.0	37.0	33.7	32.2	27.5	24.5	27.1	30.5	28.7	29.1	31.1	30.6	32.8	31.5	26.5	28.5	25.9	24.6	24.2	24.4	22.2	19.2	29.2	38.0
11	19.8	18.3	16.5	14.7	9.7	15.2	13.6	13.3	15.5	15.8	15.8	19.7	20.8	22.3	20.5	16.0	16.1	11.6	11.3	17.1	22.4	21.2	22.3	22.9	17.2	22.9
12	33.6	34.4	33.8	39.3	34.6	29.2	28.6	27.8	27.1	26.2	26.0	24.1	16.2	10.9	8.8	6.4	8.9	14.3	11.5	10.4	8.8	12.4	17.3	20.0	21.3	39.3
13	21.0	19.3	16.5	26.5	28.5	26.7	25.4	35.8	35.5	30.2	30.1	30.1	32.1	31.4	30.4	27.6	25.5	22.1	22.4	18.4	14.9	14.6	8.6	6.1	24.2	35.8
14	5.9	7.8	7.4	6.5	8.0	20.4	22.2	25.3	25.9	31.2	27.7	24.1	23.3	25.5	22.9	21.5	18.9	14.9	13.6	8.1	14.3	5.3	7.1	18.3	16.9	31.2
15	14.0	13.2	13.0	12.5	13.0	11.8	11.1	10.6	9.8	10.6	10.7	10.5	10.0	5.6	5.2	5.2	6.0	5.9	4.0	4.1	19.3	25.6	40.6	36.5	12.9	40.6
16	22.2	21.0	27.5	27.2	31.2	32.7	35.5	32.3	29.7	32.4	31.4	32.2	30.0	24.0	25.7	24.2	24.5	20.7	19.4	19.1	20.7	19.3	20.2	18.1	25.9	35.5
17	18.7	17.5	15.1	19.4	18.3	15.4	17.8	17.5	20.2	20.7	27.7	34.5	35.8	36.3	34.7	37.7	38.9	39.2	40.4	42.2	37.7	38.5	37.1	35.4	29.0	42.2
18	30.9	27.4	27.4	27.2	29.1	31.0	30.2	27.2	30.5	26.0	22.0	19.5	18.8	26.6	32.0	32.1	31.3	29.9	26.5	27.8	14.4	16.5	22.5	27.1	26.4	32.1
19	26.2	24.5	22.2	21.3	21.2	18.8	18.2	21.4	21.2	17.5	24.4	22.4	22.1	28.3	23.9	24.5	21.1	20.0	15.2	13.3	15.8	19.0	29.2	23.6	21.5	29.2
20	22.8	31.9	30.7	32.2	36.8	34.9	37.0	40.7	39.6	42.3	46.7	41.8	38.6	36.0	34.3	31.7	25.8	25.8	22.5	22.2	20.6	15.6	11.8	3.7	30.3	46.7
21	5.9	5.9	25.3	28.4	29.4	34.1	38.1	36.9	38.5	37.3	41.6	39.2	32.5	35.0	30.6	28.7	26.7	26.8	26.3	29.6	34.2	35.5	39.3	46.9	31.4	46.9
22	47.7	41.6	30.2	31.4	26.1	27.7	32.3	29.2	28.7	34.5	42.3	43.6	46.2	46.3	47.0	45.7	42.4	41.5	33.6	28.7	22.4	22.4	22.2	15.6	34.6	47.7
23	21.2	16.8	13.4	15.1	18.0	19.0	19.3	21.9	17.7	16.4	17.6	15.5	16.0	17.5	15.9	12.6	11.9	13.1	10.9	8.6	8.8	10.4	11.3	10.1	15.0	21.9
24	6.3	4.4	8.1	6.5	7.9	12.0	10.5	8.4	8.1	15.1	14.6	20.3	23.7	29.0	32.3	33.7	42.2	46.5	44.6	40.0	45.5	40.4	39.9	43.6	24.3	46.5
25	52.3	51.5	52.2	48.4	51.3	50.0	52.9	47.1	38.5	37.2	31.1	32.8	35.4	35.4	37.3	38.6	36.9	35.3	32.4	30.8	32.2	38.9	34.0	31.3	40.2	52.9
26	33.0	36.1	38.8	34.7	43.5	40.3	35.0	25.0	19.0	24.1	23.3	28.2	25.3	23.9	21.5	22.4	25.5	22.8	22.5	15.8	7.7	5.5	8.3	5.9	24.5	43.5
27	5.0	18.3	16.8	12.7	8.4	6.1	4.2	3.7	8.4	10.1	29.3	32.8	39.4	43.8	47.1	44.6	45.3	44.9	36.3	36.7	42.2	40.7	36.6	27.8	26.7	47.1
28	26.5	27.3	26.6	30.7	31.6	34.0	29.0	25.8	25.5	25.1	20.6	18.3	15.9	11.7	11.8	8.5	7.6	8.2	8.7	6.1	6.8	8.2	7.8	8.0	17.9	34.0
29	9.5	9.2	8.7	13.9	13.7	17.6	22.8	24.0	25.0	23.3	21.7	21.5	22.3	25.3	27.6	17.1	13.4	16.8	19.1	17.5	12.3	16.9	30.5	36.6	19.4	36.6
30	40.7	45.5	51.3	50.2	46.4	40.6	37.7	34.4	34.4	39.3	34.7	29.6	40.8	41.0	47.7	48.3	50.6	45.8	43.9	43.8	45.9	48.1	44.8	41.6	42.8	51.3
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	22.9	23.1	22.5	23.1	23.5	24.6	24.1	23.3	23.5	24.7	25.6	26.2	26.9	27.1	27.7	26.0	24.9	23.7	22.7	21.5	21.5	22.4	23.5	22.8		
MAX	52.3	51.5	52.2	50.2	51.3	50.0	52.9	47.1	39.6	42.3	46.7	43.6	46.2	46.3	47.7	48.3	50.6	46.5	44.6	43.8	45.9	48.1	44.8	46.9		



Number of Non-Zero Readings	720
Maximum 1-HR Average	52.9 KM/HR
Maximum 24-HR Average	42.8 KM/HR
Monthly Calibration	0
Standard Deviation	10.92
Operational Time	720 HRS
Operational Uptime	100.0 %
Monthly Average	24.1 KM/HR

Lagoon Wind Direction (°) – November 2021

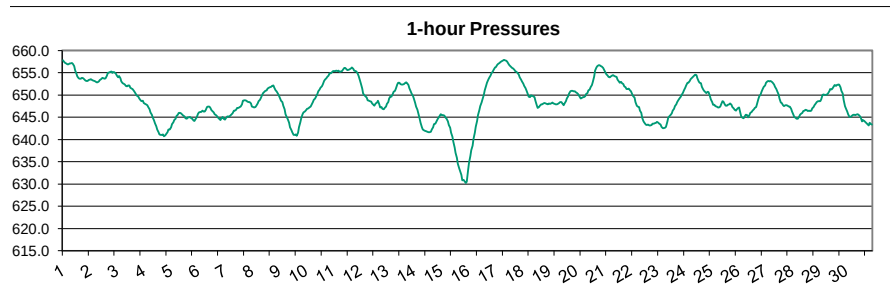
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	271.0	275.1	273.2	277.6	273.2	275.2	264.8	262.4	269.7	271.3	276.4	276.1	277.4	243.7	211.1	211.1	230.9	245.6	225.9	238.7	280.9	301.6	298.5	311.3	270.7	311.3
2	310.2	292.3	294.0	296.9	302.4	320.9	314.3	317.8	311.1	296.1	303.3	302.6	301.7	297.2	283.6	302.4	273.0	242.4	250.4	237.2	271.5	291.7	294.1	258.1	296.5	320.9
3	293.3	263.2	289.5	279.9	274.9	274.1	269.4	276.7	272.7	279.0	270.7	255.1	246.3	246.8	245.2	246.7	250.2	252.7	252.3	258.0	257.9	252.3	261.5	266.2	260.5	293.3
4	257.1	275.8	302.7	317.5	314.1	308.2	318.0	278.9	264.1	272.8	265.0	280.6	275.1	272.6	262.5	253.0	248.5	247.8	250.4	250.2	247.6	247.4	246.3	250.0	262.9	318.0
5	246.5	242.7	246.8	240.1	243.2	258.3	259.1	247.6	244.9	246.5	246.5	234.3	239.8	233.2	236.1	244.1	248.3	264.3	268.7	264.2	273.6	265.0	257.2	232.3	246.7	273.6
6	254.4	266.1	256.9	259.9	263.8	254.3	280.0	272.8	295.8	305.7	306.9	289.9	266.7	275.4	268.5	273.8	275.1	270.9	263.9	288.8	296.2	281.0	269.4	277.8	272.4	306.9
7	271.8	251.6	245.2	280.8	274.7	260.0	265.9	284.0	263.0	238.4	250.0	244.0	238.8	243.7	250.1	270.5	253.6	239.3	253.5	265.2	208.0	113.8	11.8	85.5	254.1	284.0
8	152.0	258.3	226.7	230.3	219.5	265.5	257.7	246.8	256.0	258.2	257.6	246.3	249.8	249.1	249.3	250.3	261.3	255.9	261.0	247.6	233.1	249.7	276.4	303.7	253.1	303.7
9	353.4	10.6	271.7	279.3	275.7	280.0	280.8	274.7	287.3	279.8	285.1	278.1	262.0	265.2	244.2	251.4	244.2	232.5	238.4	253.6	266.4	256.6	258.8	260.1	263.6	353.4
10	258.2	257.1	251.7	250.3	253.5	254.9	257.0	243.7	248.0	249.0	251.0	259.9	253.5	251.3	250.2	246.6	246.6	251.6	257.7	247.5	251.2	251.3	263.5	276.8	253.1	276.8
11	292.4	294.8	304.1	302.0	273.2	291.2	282.6	275.0	281.1	289.2	298.5	309.0	261.3	249.8	241.2	254.0	271.4	300.5	288.5	283.4	273.5	271.8	278.2	258.5	278.8	309.0
12	244.0	259.8	272.2	266.8	277.3	291.9	293.7	297.0	296.3	294.7	292.0	293.7	275.7	266.9	256.9	219.8	239.5	281.6	277.3	269.6	245.1	272.5	265.8	284.3	276.4	297.0
13	266.5	267.0	273.9	266.2	271.8	273.6	264.8	253.1	260.1	255.0	259.4	259.1	258.7	265.4	269.6	262.1	252.6	250.6	256.9	264.6	273.7	260.2	251.0	211.4	261.7	273.9
14	231.7	307.9	286.4	273.8	288.2	285.5	284.9	281.7	281.9	273.4	279.8	289.5	295.8	296.4	292.7	299.6	299.8	298.4	298.4	257.0	283.0	198.3	84.2	80.1	288.0	307.9
15	85.0	88.2	97.9	98.8	98.0	95.7	84.2	84.4	80.5	78.9	77.5	73.7	75.5	81.2	254.2	70.2	84.6	118.2	284.0	243.5	259.4	268.3	253.7	261.7	110.5	284.0
16	258.8	252.2	247.3	253.3	258.1	263.7	262.7	259.3	257.7	252.6	258.0	262.7	266.1	263.6	260.5	260.5	261.3	256.0	259.1	267.9	267.6	270.5	286.1	260.2	286.1	
17	293.7	293.1	296.4	299.7	296.3	294.7	301.4	296.7	295.8	299.2	278.9	262.1	261.2	257.7	251.4	252.3	256.8	261.4	255.5	260.6	261.8	261.8	263.2	271.1	269.9	301.4
18	276.6	282.1	297.3	303.3	299.4	293.0	300.5	308.5	318.1	319.5	320.3	325.2	291.3	272.1	258.1	258.4	261.6	257.2	267.8	269.3	304.8	305.4	294.3	299.1	289.1	325.2
19	296.7	300.9	313.4	319.0	315.5	297.7	281.5	297.3	283.9	290.3	291.5	300.7	269.7	248.7	241.1	243.5	254.2	258.6	286.6	299.6	285.0	294.7	275.7	281.0	283.6	319.0
20	280.3	268.5	276.6	273.5	258.8	259.3	255.5	258.7	263.3	268.8	265.8	262.7	264.3	263.4	263.3	265.0	306.6	61.2	67.1	71.1	74.7	73.4	71.6	60.9	271.0	306.6
21	275.9	142.5	239.9	238.1	243.2	246.5	249.2	246.9	244.9	249.9	243.2	242.3	243.4	241.5	255.6	260.9	250.6	252.6	253.3	257.0	258.8	257.3	254.7	253.6	249.0	275.9
22	255.4	261.1	275.5	274.7	274.9	272.4	259.1	266.3	259.9	245.6	246.9	263.9	255.9	250.0	249.2	250.1	249.0	250.7	245.7	249.4	262.1	260.2	267.7	274.7	257.5	275.5
23	262.9	284.3	283.7	291.5	289.7	288.5	296.3	285.8	305.5	65.5	78.2	58.3	66.6	69.6	69.0	64.1	58.8	75.7	84.4	85.2	86.7	72.2	77.7	80.5	16.6	305.5
24	63.7	87.1	63.5	64.6	257.6	293.5	283.5	275.8	241.3	248.7	281.0	241.4	237.1	249.4	251.4	260.8	250.7	250.2	248.7	254.7	265.3	259.6	259.7	260.2	256.6	293.5
25	251.9	251.2	255.3	254.4	255.4	252.9	250.5	252.4	255.8	259.3	256.0	248.6	252.4	255.9	251.1	247.5	251.4	250.6	253.3	254.9	257.8	264.4	265.0	247.5	253.9	265.0
26	259.6	260.7	265.5	271.2	251.3	247.0	248.7	260.9	251.3	269.9	270.0	252.3	244.5	244.5	244.9	252.3	256.6	256.2	251.4	257.7	265.8	199.9	65.9	69.0	255.9	271.2
27	75.2	62.4	65.0	66.0	61.8	68.4	96.6	103.5	190.7	284.1	254.6	246.2	254.4	253.8	257.2	255.3	259.9	261.3	267.7	255.2	253.7	259.3	265.8	272.9	259.2	284.1
28	271.6	276.1	280.3	272.4	268.7	267.5	272.7	279.5	289.2	297.4	292.5	300.5	304.0	296.0	294.9	251.3	245.5	254.2	253.8	212.9	216.9	204.5	208.9	217.1	274.0	304.0
29	243.3	222.5	237.0	274.1	273.8	270.0	280.8	271.3	270.2	281.0	286.2	277.0	261.6	251.7	247.6	263.1	278.9	282.1	271.3	267.9	272.8	288.1	258.2	255.4	267.0	288.1
30	256.7	253.2	254.1	256.7	251.9	252.9	258.8	256.6	251.8	251.7	259.5	258.9	257.1	260.4	259.9	254.8	253.3	258.7	260.6	260.0	259.5	264.0	272.4	271.4	258.1	272.4
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	247.0	236.9	251.5	254.4	258.7	261.9	262.5	260.5	263.1	259.1	260.1	256.5	250.3	247.2	249.0	243.2	245.8	241.3	248.2	246.1	250.5	243.8	231.4	233.9		
MAX	353.4	307.9	313.4	319.0	315.5	320.9	318.0	317.8	318.1	319.5	320.3	325.2	304.0	297.2	294.9	302.4	306.6	300.5	298.4	299.6	304.8	305.4	298.5	311.3		



Number of Non-Zero Readings	720		
Maximum 1-HR Average	353 degrees		
Maximum 24-HR Average	297 degrees		
Monthly Calibration	0	Operational Time	720 HRS
Standard Deviation	56.61	Operational Uptime	100.0 %
		Monthly Average	250.1 degrees

Lagoon Pressure (mmHg) – November 2021

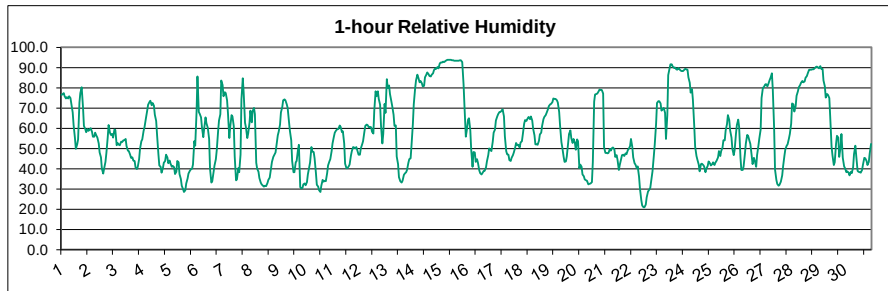
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	657.8	657.5	657.2	657.1	656.9	656.9	657.1	657.1	657.2	656.9	656.4	655.5	654.8	654.2	653.8	653.7	653.7	653.9	653.8	653.6	653.3	653.2	653.2	653.4	655.3	657.8
2	653.4	653.5	653.4	653.3	653.2	653.0	652.9	652.9	653.1	653.4	653.5	653.9	653.7	653.6	653.8	654.3	655.0	655.1	655.2	655.2	655.0	655.2	655.0	654.8	654.0	655.2
3	654.4	654.0	654.2	653.7	653.1	652.7	652.6	652.4	652.1	652.0	652.1	652.1	651.6	651.5	651.3	650.9	650.6	650.2	649.9	649.6	649.2	648.8	648.6	648.7	651.5	654.4
4	648.2	648.0	647.9	647.7	647.3	646.8	646.0	645.6	644.9	644.2	643.6	643.0	642.2	641.6	641.1	641.0	641.1	641.2	640.8	641.0	641.2	641.6	642.2	642.3	643.8	648.2
5	642.7	643.4	643.9	644.3	644.7	645.2	645.5	646.0	646.9	645.9	645.6	645.4	645.1	644.8	644.7	644.9	645.0	645.1	644.8	644.6	644.3	644.2	644.6	645.0	644.8	646.0
6	645.8	646.1	646.2	646.2	646.5	646.3	646.3	646.6	647.2	647.4	647.4	647.2	646.6	646.3	646.1	645.7	645.5	645.2	644.9	644.6	644.4	644.8	645.1	644.6	646.0	647.4
7	644.5	644.8	645.2	645.2	645.2	645.3	645.6	645.9	646.5	646.5	646.7	647.0	647.1	647.3	647.4	647.9	648.7	648.8	648.8	648.8	648.5	648.4	648.4	648.1	646.9	648.8
8	647.4	647.3	647.2	647.3	647.6	648.1	648.6	648.9	649.3	650.0	650.4	650.7	650.9	651.0	651.4	651.7	651.8	651.8	652.0	652.1	651.7	651.0	650.9	650.3	650.0	652.1
9	649.9	649.2	648.7	648.4	647.6	646.7	645.7	645.0	644.6	643.8	642.8	642.2	641.7	641.0	641.1	641.1	640.9	641.5	642.7	643.9	644.8	645.6	646.1	646.3	644.6	649.9
10	646.5	646.8	646.9	647.2	647.4	647.8	648.4	648.9	649.2	649.6	650.2	650.8	651.3	651.6	651.9	652.4	653.1	653.5	653.8	654.0	654.4	654.9	654.9	655.0	650.9	655.0
11	655.4	655.4	655.4	655.5	655.4	655.4	655.2	655.3	655.4	655.7	656.1	656.1	655.8	655.6	655.7	655.8	656.0	656.2	655.9	655.5	655.4	655.3	654.7	654.2	655.5	656.2
12	653.3	652.5	651.5	650.3	650.0	649.7	649.4	648.8	648.7	648.6	648.5	648.1	647.8	647.6	648.1	648.3	648.7	647.9	647.2	647.3	646.9	646.8	647.1	647.4	648.8	653.3
13	648.0	648.4	649.2	649.8	649.6	650.2	650.7	650.9	651.4	652.4	652.7	652.7	652.5	652.4	652.4	652.4	652.7	652.8	652.6	652.2	651.5	650.8	650.3	649.8	651.2	652.8
14	649.2	648.2	647.4	646.7	645.9	644.7	643.7	642.8	642.3	642.0	642.0	641.9	641.8	641.6	641.6	641.8	642.3	642.8	643.4	643.6	643.9	644.6	644.9	645.4	643.9	649.2
15	645.6	645.5	645.5	645.4	644.9	644.7	644.1	643.3	642.7	641.5	640.7	639.5	638.2	637.0	635.9	634.6	633.6	632.9	632.1	630.8	631.0	630.7	630.2	630.6	638.4	645.6
16	633.2	634.8	636.3	637.6	638.6	640.1	641.5	642.8	644.2	645.5	646.6	647.5	648.3	649.1	650.0	651.0	652.0	652.7	653.4	653.9	654.4	654.9	655.3	655.7	646.6	655.7
17	656.2	656.3	656.8	657.0	657.2	657.4	657.6	657.7	657.9	657.8	657.7	657.5	657.0	656.7	656.4	656.1	656.0	655.7	655.4	655.2	655.0	654.5	654.0	653.4	656.4	657.9
18	653.0	652.6	652.0	651.6	651.0	650.2	649.6	649.5	649.9	649.8	649.7	649.5	648.7	647.7	647.1	647.3	647.6	647.9	647.9	648.1	648.2	648.1	648.0	647.9	649.3	653.0
19	648.1	648.0	648.1	648.3	648.1	648.0	647.9	647.9	648.0	648.2	648.4	648.4	648.1	647.7	648.1	648.6	649.2	649.7	650.3	650.8	650.9	651.0	650.8	650.8	648.9	651.0
20	650.6	650.4	650.2	649.8	649.2	649.3	649.5	649.5	649.7	650.2	650.5	651.0	651.2	651.7	652.3	653.0	654.1	655.5	656.1	656.5	656.7	656.7	656.5	656.4	652.4	656.7
21	656.1	655.7	655.1	654.6	654.4	654.0	653.9	654.2	654.4	654.5	654.3	654.2	654.0	653.4	653.0	652.8	652.9	652.7	652.5	652.0	651.7	651.4	651.4	651.4	653.5	656.1
22	651.1	650.8	650.1	649.7	649.4	648.4	647.6	647.4	647.3	646.5	645.9	644.9	644.1	643.7	643.3	643.3	643.3	643.2	643.2	643.2	643.6	643.5	643.7	643.7	645.9	651.1
23	643.9	643.8	643.6	643.3	642.9	642.5	642.5	642.6	642.9	644.0	644.9	645.3	645.4	645.8	646.4	646.9	647.5	647.9	648.4	648.9	649.2	649.6	650.0	650.6	645.8	650.6
24	651.0	651.6	652.2	652.8	652.8	653.1	653.6	653.9	654.1	654.3	654.6	654.4	653.7	653.1	652.7	652.6	651.8	651.2	650.9	650.7	650.5	650.7	650.7	649.7	652.4	654.6
25	649.0	648.4	647.8	647.8	647.5	647.4	647.2	647.2	647.4	647.9	648.6	648.5	647.9	647.6	647.6	647.8	647.9	648.1	647.8	647.3	647.0	646.6	646.5	646.8	647.7	649.0
26	647.1	647.2	645.9	645.1	644.8	644.8	645.3	645.5	645.5	645.0	645.5	646.0	646.2	646.5	646.7	647.0	647.2	648.0	649.1	649.7	650.1	650.7	651.4	651.9	647.2	651.9
27	652.1	652.7	653.1	653.1	653.1	653.1	652.9	652.8	652.3	651.9	651.3	650.8	650.1	649.2	648.3	648.2	647.7	647.5	647.7	647.7	647.6	647.4	647.4	646.9	650.2	653.1
28	646.2	645.6	645.1	644.9	644.7	644.7	644.9	645.6	645.7	645.9	646.3	646.5	646.7	646.6	646.4	646.5	646.4	646.5	647.0	647.3	647.6	648.1	648.4	648.6	646.3	648.6
29	648.7	648.6	649.0	650.0	650.1	650.0	650.1	650.1	650.4	650.8	651.4	651.3	651.4	651.9	652.3	652.1	652.3	652.4	652.3	651.8	650.9	650.3	648.9	647.5	650.6	652.4
30	646.9	646.3	645.7	645.0	645.1	645.3	645.5	645.5	645.5	645.6	645.7	645.6	645.3	644.9	644.1	644.3	644.1	643.9	643.7	643.5	643.2	643.8	643.4	643.4	644.8	646.9
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%	
MEAN	649.2	649.1	649.0	649.0	648.8	648.7	648.7	648.7	648.9	648.9	649.0	648.9	648.6	648.4	648.4	648.5	648.6	648.7	648.8	648.8	648.7	648.8	648.8	648.7		
MAX	657.8	657.5	657.2	657.1	657.2	657.4	657.6	657.7	657.9	657.8	657.7	657.5	657.0	656.7	656.4	656.1	656.0	656.2	656.1	656.5	656.7	656.7	656.5	656.4		



Number of Non-Zero Readings	720
Maximum 1-HR Average	658 MMHg
Maximum 24-HR Average	656 MMHg
Monthly Calibration	0
Standard Deviation	4.719
Operational Time	720 HRS
Operational Uptime	100.0 %
Monthly Average	648.8 MMHg

Lagoon Relative Humidity (%) – November 2021

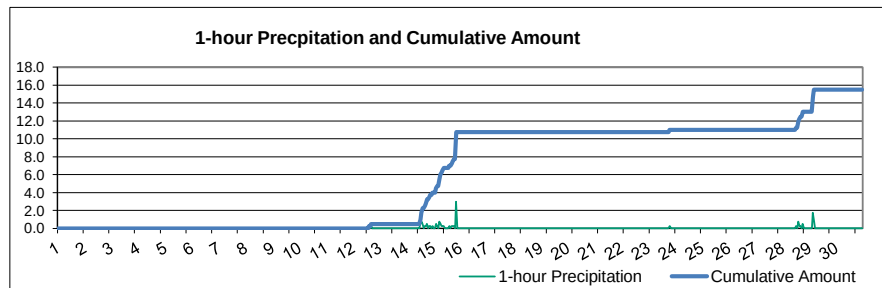
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	76.6	76.8	77.4	76.0	74.8	75.4	74.7	75.8	74.9	72.1	67.8	61.6	55.1	49.8	52.0	54.5	72.8	77.4	80.2	70.3	61.1	59.5	58.0	59.7	68.1	80.2
2	58.6	59.4	60.1	58.2	55.9	55.9	57.8	56.2	55.3	52.5	47.9	45.6	40.2	37.5	40.1	43.4	47.5	55.4	61.7	57.9	56.7	57.2	55.3	59.4	53.2	61.7
3	59.2	51.6	52.6	51.8	51.5	53.4	53.1	54.1	54.1	54.6	51.2	49.0	48.7	47.0	45.4	45.5	44.1	43.7	40.8	39.9	40.9	44.7	49.9	53.6	49.2	59.2
4	54.5	58.8	60.5	64.8	68.7	71.6	72.9	73.6	71.5	72.5	71.1	66.8	63.7	56.7	47.2	41.5	40.9	38.1	40.3	42.9	43.8	46.9	45.6	42.8	56.6	73.6
5	43.9	42.6	41.0	41.4	40.8	37.5	38.5	43.8	43.1	37.4	35.0	31.5	29.8	28.6	29.4	32.7	35.1	37.5	38.9	39.5	40.0	42.0	53.7	51.3	38.9	53.7
6	68.0	85.6	68.0	67.1	65.4	60.5	55.6	59.8	65.5	62.5	60.4	54.7	40.0	33.1	33.9	38.4	41.7	44.8	49.2	58.4	63.8	67.0	83.7	81.5	58.7	85.6
7	75.8	77.8	77.5	73.9	67.3	55.1	60.8	66.5	65.8	61.0	46.1	34.4	34.8	40.3	38.2	46.9	74.4	84.8	77.5	62.7	60.6	55.1	57.3	62.8	60.7	84.8
8	68.7	62.9	68.6	70.0	66.9	43.0	40.1	38.5	35.3	33.2	32.3	31.7	31.2	31.6	31.5	33.0	34.5	35.6	38.8	43.3	45.8	46.8	48.1	51.3	44.3	70.0
9	56.5	58.3	61.8	67.7	70.5	73.8	74.4	73.8	71.9	70.0	63.2	58.7	54.0	43.7	38.4	38.3	43.3	43.9	49.5	51.8	30.9	30.3	30.6	32.2	53.6	74.4
10	32.6	31.8	33.4	37.1	40.7	43.1	50.7	48.5	48.2	45.1	37.8	32.0	31.0	29.5	28.4	31.5	34.4	33.5	34.0	33.9	37.9	41.6	43.5	44.8	37.7	50.7
11	48.6	52.5	55.7	57.8	58.9	59.6	59.6	61.4	60.7	58.0	58.4	52.5	42.5	40.3	40.2	41.2	42.1	46.5	48.8	50.6	50.5	50.0	50.7	48.5	51.5	61.4
12	46.9	47.0	50.1	52.1	53.6	58.2	61.2	61.8	61.6	60.5	60.8	60.4	58.2	57.5	68.7	78.2	75.9	78.3	74.6	71.7	61.3	52.6	57.1	72.1	61.7	78.3
13	67.7	84.2	79.7	81.3	77.0	73.5	71.0	66.6	61.2	61.3	46.1	42.4	35.8	33.7	33.2	34.0	36.9	37.5	38.2	39.3	42.8	44.7	45.1	51.6	53.5	84.2
14	62.1	71.8	79.7	83.6	86.6	85.3	82.6	83.4	82.3	80.8	81.0	85.1	86.5	87.7	86.7	85.8	85.5	86.5	87.3	88.7	89.6	89.5	90.4	89.7	84.1	90.4
15	92.1	92.6	92.6	92.9	92.7	93.1	93.6	93.8	93.9	93.9	93.8	93.7	93.6	93.4	93.4	93.3	93.4	93.5	93.6	93.7	92.7	81.7	70.9	55.9	90.3	93.9
16	58.8	64.4	64.9	59.0	49.5	40.9	48.3	48.2	43.5	44.6	43.0	39.2	37.9	37.1	37.8	38.9	38.9	40.6	43.5	46.6	50.1	49.2	48.7	53.5	47.0	64.9
17	57.8	59.4	63.9	65.8	66.9	68.2	68.1	68.7	69.5	65.9	56.0	48.8	47.2	46.9	44.4	43.9	45.4	46.7	48.0	50.4	52.8	51.6	51.8	50.5	55.8	69.5
18	52.9	53.6	57.0	62.2	64.1	63.5	65.0	65.7	64.4	65.9	63.8	59.9	56.4	52.1	52.0	51.9	53.9	57.0	57.9	61.2	64.6	65.5	66.5	67.6	60.2	67.6
19	69.4	70.9	71.9	72.1	73.0	74.8	74.6	74.5	73.8	72.8	68.0	61.5	53.1	50.6	45.8	43.4	43.6	46.2	52.7	57.2	59.0	55.2	52.8	54.6	61.3	74.8
20	52.9	49.3	54.5	53.6	40.2	42.1	41.0	37.1	36.2	34.8	34.2	34.1	32.2	32.5	32.8	33.3	43.1	73.2	76.8	77.0	77.1	78.3	79.1	78.9	51.0	79.1
21	78.9	77.2	50.6	47.8	47.8	47.5	47.8	49.8	49.0	50.3	50.4	49.5	45.8	46.8	44.5	39.3	41.9	44.6	46.7	46.9	46.3	47.7	47.2	49.2	49.7	78.9
22	49.7	51.1	54.8	50.7	45.6	42.7	42.1	40.2	41.1	35.9	30.3	24.4	21.9	20.9	20.9	22.3	25.8	28.7	29.4	30.5	33.8	38.7	46.6	52.0	36.7	54.8
23	62.2	72.4	73.4	73.4	72.4	68.7	69.7	70.0	67.5	54.7	66.5	86.4	89.7	91.6	91.7	90.6	89.8	90.2	89.2	89.1	89.8	89.3	88.6	88.2	79.8	91.7
24	88.3	88.7	89.4	89.1	88.9	85.2	82.5	77.7	79.4	74.1	61.1	50.9	46.3	44.4	42.1	38.7	42.3	42.5	41.9	41.2	38.2	40.0	41.3	43.5	60.7	89.4
25	42.7	41.6	42.2	43.1	41.9	42.9	43.9	45.7	48.6	46.4	48.6	50.6	54.1	54.0	58.9	62.0	66.5	64.0	59.1	55.3	49.8	46.7	49.1	57.3	50.6	66.5
26	61.7	64.4	60.7	45.6	39.3	39.3	41.1	47.6	52.5	56.7	56.3	53.7	52.2	46.6	42.3	45.3	43.8	40.9	46.6	51.4	55.0	59.5	74.9	80.1	52.4	80.1
27	80.4	81.7	81.9	80.7	81.9	83.8	85.0	87.1	79.4	60.0	39.6	34.6	32.5	31.6	32.1	33.7	36.7	41.2	46.5	49.6	51.3	52.0	55.0	57.2	58.1	87.1
28	62.3	72.4	71.9	68.2	71.1	76.0	78.4	80.3	81.5	82.5	83.3	82.7	83.2	85.0	85.9	87.3	89.0	89.0	88.9	89.2	89.2	89.7	90.3	90.6	82.0	90.6
29	90.1	89.7	90.7	89.4	89.4	83.6	80.7	75.1	77.0	76.6	75.0	65.7	50.9	46.7	41.7	43.2	52.4	56.2	55.3	45.8	50.5	57.2	45.3	41.2	65.4	90.7
30	40.2	38.3	38.6	38.0	36.7	38.5	37.9	40.7	47.1	51.4	46.3	38.9	38.5	38.3	38.2	39.3	42.1	45.5	45.2	43.9	41.8	43.5	47.6	52.2	42.0	52.2
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	62.0	64.3	64.2	63.8	62.7	61.2	61.8	62.2	61.9	59.6	55.9	52.7	49.6	47.8	47.3	48.4	51.9	54.8	56.0	56.0	55.6	55.8	57.5	59.1		
MAX	92.1	92.6	92.6	92.9	92.7	93.1	93.6	93.8	93.9	93.9	93.8	93.7	93.6	93.4	93.4	93.3	93.4	93.5	93.6	93.7	92.7	89.7	90.4	90.6		



Number of Non-Zero Readings	720
Maximum 1-HR Average	93.9 %
Maximum 24-HR Average	90.3 %
Monthly Calibration	0
Standard Deviation	17.56
Operational Time	720 HRS
Operational Uptime	100.0 %
Monthly Average	57.2 %

Lagoon Precipitation (mm) – November 2021

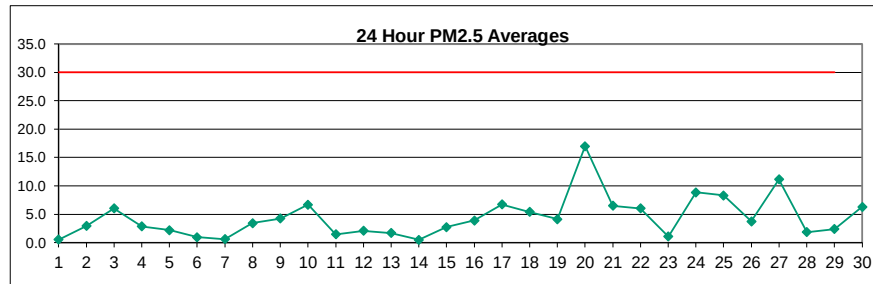
HOURLY																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.5	0.0	0.3	0.3	0.5	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.8
15	0.0	0.0	0.5	0.3	0.0	0.8	0.5	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.0	3.0	0.0	0.0	0.0	0.0	0.3	3.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.8	0.3	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
29	0.0	0.0	0.0	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%	
MEAN	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.5	1.8	0.8	0.8	0.5	0.3	0.3	0.3	0.0	0.0	0.5	0.8	0.8	0.3	0.3	0.3	0.5	0.3	3.0	0.3	0.0	0.3	0.0	0.0	0.3



Number of Non-Zero Readings	31		
Maximum 1-HR Average	3.0 MM		
Maximum 24-HR Average	0.3 MM		
Monthly Calibration	0	Operational Time	720 HRS
Standard Deviation	0.152	Operational Uptime	100.0 %
		Monthly Average	0.02 MM

Windridge PM_{2.5} (µg/m³) – November 2021

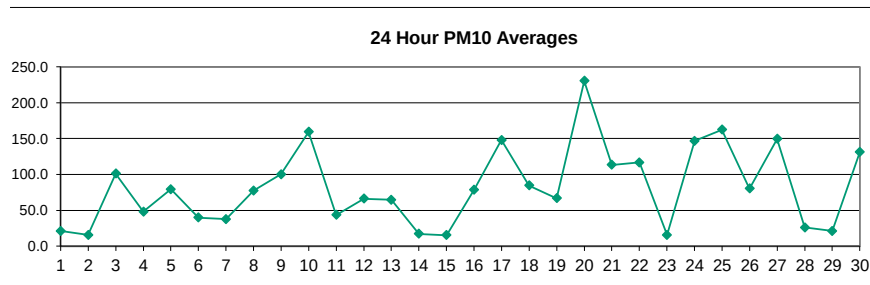
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	2.0	1.0	0.0	1.0	2.0	0.0	1.0	1.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.5	2.0
2	2.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	3.0	2.0	2.0	2.0	5.0	9.0	9.0	6.0	6.0	6.0	5.0	5.0	3.0	1.0	2.9	9.0
3	0.0	6.0	4.0	1.0	6.0	8.0	7.0	6.0	7.0	6.0	4.0	4.0	6.0	11.0	7.0	7.0	10.0	6.0	7.0	7.0	7.0	7.0	7.0	4.0	6.0	11.0
4	5.0	5.0	4.0	2.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	5.0	7.0	5.0	2.0	5.0	5.0	4.0	6.0	6.0	2.8	7.0
5	4.0	5.0	6.0	3.0	1.0	1.0	1.0	3.0	4.0	7.0	4.0	0.0	0.0	0.0	0.0	2.0	2.0	3.0	1.0	2.0	3.0	1.0	0.0	0.0	2.2	7.0
6	0.0	1.0	0.0	1.0	1.0	5.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	3.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	5.0
7	0.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.6	4.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.0	8.0	4.0	4.0	4.0	3.0	6.0	5.0	9.0	7.0	6.0	4.0	2.0	4.0	4.0	3.0	3.4	9.0
9	1.0	0.0	3.0	4.0	2.0	0.0	3.0	6.0	4.0	1.0	0.0	1.0	3.0	6.0	6.0	7.0	7.0	4.0	3.0	4.0	4.0	5.0	13.0	15.0	4.3	15.0
10	13.0	8.0	9.0	6.0	7.0	6.0	8.0	5.0	12.0	17.0	9.0	7.0	6.0	7.0	6.0	4.0	3.0	3.0	3.0	4.0	6.0	5.0	4.0	2.0	6.7	17.0
11	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	3.0	5.0	1.0	0.0	1.0	3.0	2.0	1.0	2.0	1.5	5.0
12	3.0	7.0	7.0	9.0	7.0	4.0	1.0	3.0	3.0	1.0	1.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	9.0
13	0.0	0.0	2.0	2.0	1.0	0.0	0.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	6.0	1.0	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	1.7	8.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.5	3.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	X	1.0	3.0	14.0	9.0	7.0	9.0	5.0	2.0	1.0	5.0	6.0	2.7	14.0
16	5.0	5.0	5.0	3.0	2.0	1.0	0.0	1.0	3.0	5.0	3.0	3.0	C	C	7.0	6.0	6.0	9.0	8.0	5.0	4.0	2.0	1.0	2.0	3.9	9.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0	17.0	10.0	9.0	11.0	10.0	9.0	12.0	14.0	9.0	10.0	11.0	13.0	11.0	6.7	17.0
18	9.0	6.0	4.0	1.0	1.0	4.0	4.0	X	X	X	X	X	X	10.0	10.0	8.0	8.0	6.0	7.0	9.0	2.0	0.0	3.0	5.0	5.4	10.0
19	3.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	3.0	7.0	5.0	3.0	14.0	10.0	10.0	7.0	7.0	9.0	5.0	0.0	1.0	4.0	4.0	5.0	4.1	14.0
20	5.0	7.0	6.0	3.0	2.0	5.0	11.0	135.0	24.0	42.0	52.0	26.0	13.0	17.0	15.0	11.0	7.0	6.0	4.0	2.0	3.0	4.0	5.0	3.0	17.0	135.0
21	4.0	7.0	7.0	5.0	4.0	6.0	10.0	11.0	11.0	7.0	3.0	1.0	4.0	6.0	4.0	7.0	7.0	6.0	6.0	6.0	4.0	8.0	10.0	12.0	6.5	12.0
22	11.0	8.0	2.0	0.0	0.0	0.0	4.0	5.0	7.0	7.0	11.0	19.0	11.0	7.0	10.0	8.0	8.0	6.0	5.0	2.0	1.0	3.0	6.0	4.0	6.0	19.0
23	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	1.0	0.0	0.0	1.0	3.0	3.0	3.0	1.0	2.0	2.0	0.0	0.0	1.1	3.0
24	1.0	1.0	2.0	2.0	3.0	5.0	3.0	3.0	31.0	15.0	9.0	5.0	7.0	5.0	11.0	11.0	7.0	5.0	5.0	11.0	20.0	15.0	17.0	18.0	8.8	31.0
25	8.0	6.0	32.0	13.0	21.0	4.0	6.0	7.0	7.0	5.0	5.0	9.0	8.0	6.0	5.0	10.0	7.0	10.0	6.0	3.0	3.0	6.0	6.0	6.0	8.3	32.0
26	4.0	3.0	2.0	3.0	7.0	6.0	5.0	6.0	5.0	4.0	3.0	3.0	5.0	4.0	2.0	2.0	3.0	2.0	4.0	7.0	4.0	1.0	2.0	3.0	3.8	7.0
27	4.0	8.0	5.0	3.0	1.0	2.0	4.0	4.0	3.0	6.0	16.0	17.0	21.0	21.0	34.0	25.0	31.0	18.0	7.0	6.0	7.0	8.0	10.0	6.0	11.1	34.0
28	0.0	1.0	5.0	6.0	9.0	10.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.8	10.0
29	0.0	0.0	1.0	3.0	2.0	0.0	0.0	0.0	1.0	2.0	3.0	2.0	0.0	2.0	2.0	4.0	6.0	5.0	6.0	4.0	1.0	4.0	5.0	4.0	2.4	6.0
30	13.0	10.0	18.0	8.0	4.0	1.0	1.0	2.0	3.0	7.0	3.0	9.0	6.0	2.0	6.0	4.0	5.0	4.0	2.0	4.0	10.0	9.0	7.0	13.0	6.3	18.0
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	711	99.0%
MEAN	3.4	3.5	4.2	2.6	2.8	2.3	2.6	7.3	5.0	5.4	5.2	4.8	4.7	4.9	5.9	5.8	6.1	5.1	4.1	3.7	3.7	3.7	4.5	4.5	7.5	
MAX	13.0	10.0	32.0	13.0	21.0	10.0	11.0	135.0	31.0	42.0	52.0	26.0	21.0	21.0	34.0	25.0	31.0	18.0	14.0	11.0	20.0	15.0	17.0	18.0	17.4	70.0



Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	531		
Maximum 1-HR Average	135.0 UG/M3		
Maximum 24-HR Average	17.0 UG/M3		
		Operational Time	713 HRS
Monthly Calibration	2	Operational Uptime	99.0 %
Standard Deviation	7.2	Monthly Average	4.4 UG/M3

Windridge PM₁₀ (µg/m³) – November 2021

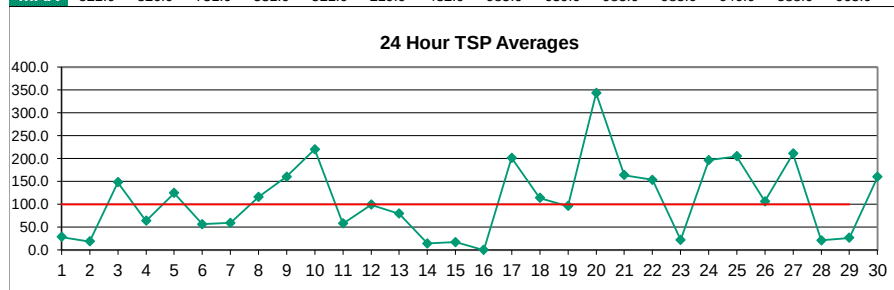
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7.0	8.0	5.0	2.0	14.0	15.0	24.0	24.0	20.0	32.0	31.0	39.0	26.0	51.0	43.0	41.0	30.0	23.0	19.0	16.0	5.0	9.0	9.0	10.0	21.0	51.0
2	9.0	9.0	9.0	17.0	14.0	32.0	17.0	8.0	11.0	13.0	19.0	10.0	38.0	16.0	54.0	12.0	13.0	12.0	10.0	9.0	10.0	12.0	9.0	9.0	15.5	54.0
3	11.0	183.0	11.0	22.0	74.0	96.0	95.0	137.0	84.0	88.0	69.0	87.0	124.0	154.0	86.0	123.0	157.0	151.0	116.0	148.0	121.0	91.0	137.0	59.0	101.0	183.0
4	100.0	65.0	1.0	0.0	5.0	5.0	11.0	9.0	10.0	16.0	9.0	8.0	9.0	23.0	69.0	108.0	77.0	49.0	90.0	80.0	55.0	57.0	174.0	120.0	47.9	174.0
5	71.0	75.0	76.0	59.0	56.0	133.0	159.0	105.0	105.0	149.0	139.0	127.0	99.0	24.0	30.0	37.0	37.0	76.0	78.0	111.0	30.0	53.0	57.0	18.0	79.3	159.0
6	75.0	34.0	34.0	43.0	41.0	62.0	26.0	35.0	38.0	3.0	2.0	7.0	60.0	90.0	59.0	54.0	61.0	19.0	74.0	33.0	4.0	22.0	59.0	19.0	39.8	90.0
7	59.0	58.0	42.0	29.0	17.0	26.0	23.0	12.0	51.0	32.0	108.0	43.0	18.0	27.0	39.0	121.0	91.0	19.0	20.0	31.0	18.0	4.0	7.0	5.0	37.5	121.0
8	13.0	18.0	7.0	5.0	7.0	21.0	38.0	92.0	182.0	197.0	156.0	144.0	62.0	79.0	131.0	88.0	140.0	73.0	139.0	22.0	56.0	72.0	69.0	48.0	77.5	197.0
9	5.0	6.0	3.0	11.0	24.0	23.0	47.0	70.0	69.0	90.0	51.0	53.0	40.0	149.0	168.0	313.0	200.0	58.0	116.0	93.0	181.0	133.0	403.0	X	100.3	403.0
10	288.0	208.0	250.0	102.0	87.0	107.0	134.0	115.0	202.0	418.0	323.0	327.0	192.0	108.0	135.0	85.0	65.0	115.0	130.0	68.0	66.0	64.0	117.0	115.0	159.2	418.0
11	33.0	12.0	11.0	8.0	3.0	15.0	43.0	13.0	29.0	30.0	33.0	41.0	44.0	51.0	30.0	57.0	75.0	7.0	14.0	44.0	111.0	88.0	136.0	115.0	43.5	136.0
12	128.0	150.0	352.0	X	199.0	59.0	139.0	91.0	81.0	64.0	60.0	70.0	14.0	12.0	11.0	9.0	8.0	4.0	1.0	2.0	9.0	8.0	22.0	25.0	66.0	352.0
13	46.0	23.0	33.0	42.0	20.0	8.0	20.0	64.0	62.0	52.0	68.0	77.0	97.0	191.0	203.0	110.0	94.0	81.0	65.0	117.0	27.0	17.0	25.0	8.0	64.6	203.0
14	5.0	6.0	6.0	11.0	17.0	22.0	46.0	40.0	39.0	58.0	30.0	15.0	11.0	10.0	11.0	7.0	5.0	4.0	5.0	6.0	6.0	13.0	20.0	X	17.1	58.0
15	8.0	8.0	7.0	7.0	4.0	X	0.0	0.0	0.0	0.0	X	0.0	X	7.0	33.0	40.0	25.0	10.0	7.0	8.0	24.0	13.0	62.0	56.0	15.2	62.0
16	29.0	47.0	53.0	50.0	50.0	49.0	80.0	57.0	69.0	87.0	88.0	91.0	91.0	C	100.0	114.0	95.0	95.0	82.0	107.0	100.0	74.0	123.0	77.0	78.6	123.0
17	23.0	38.0	15.0	16.0	3.0	5.0	14.0	11.0	31.0	74.0	305.0	216.0	154.0	134.0	216.0	174.0	297.0	384.0	277.0	289.0	167.0	118.0	228.0	359.0	147.8	384.0
18	135.0	160.0	49.0	100.0	39.0	80.0	110.0	46.0	10.0	9.0	17.0	17.0	68.0	216.0	146.0	114.0	149.0	75.0	137.0	89.0	24.0	3.0	61.0	175.0	84.5	216.0
19	24.0	22.0	9.0	6.0	2.0	0.0	10.0	23.0	41.0	38.0	149.0	67.0	132.0	90.0	94.0	109.0	136.0	92.0	60.0	23.0	56.0	36.0	175.0	210.0	66.8	210.0
20	239.0	232.0	155.0	96.0	141.0	113.0	293.0	485.0	485.0	485.0	485.0	485.0	396.0	485.0	427.0	293.0	154.0	24.0	14.0	8.0	9.0	9.0	7.0	7.0	230.3	485.0
21	22.0	23.0	68.0	89.0	55.0	83.0	142.0	106.0	112.0	73.0	75.0	52.0	71.0	54.0	133.0	244.0	115.0	89.0	58.0	100.0	255.0	196.0	182.0	323.0	113.3	323.0
22	400.0	162.0	63.0	31.0	15.0	14.0	57.0	60.0	104.0	120.0	278.0	432.0	215.0	157.0	134.0	112.0	117.0	115.0	61.0	41.0	24.0	39.0	34.0	17.0	116.8	432.0
23	26.0	10.0	4.0	4.0	5.0	13.0	11.0	30.0	20.0	19.0	39.0	27.0	31.0	28.0	12.0	11.0	32.0	10.0	11.0	18.0	3.0	5.0	4.0	4.0	15.7	39.0
24	10.0	10.0	7.0	7.0	15.0	5.0	4.0	8.0	39.0	20.0	26.0	42.0	40.0	151.0	287.0	228.0	128.0	123.0	145.0	461.0	485.0	482.0	375.0	421.0	146.6	485.0
25	270.0	229.0	485.0	473.0	485.0	113.0	142.0	139.0	137.0	94.0	61.0	90.0	77.0	122.0	99.0	78.0	82.0	93.0	72.0	72.0	115.0	109.0	169.0	87.0	162.2	485.0
26	53.0	98.0	157.0	73.0	127.0	73.0	91.0	112.0	66.0	98.0	116.0	96.0	62.0	69.0	93.0	84.0	129.0	71.0	89.0	112.0	24.0	13.0	9.0	7.0	80.1	157.0
27	15.0	5.0	7.0	6.0	5.0	6.0	9.0	10.0	12.0	66.0	220.0	130.0	373.0	341.0	485.0	265.0	485.0	296.0	256.0	156.0	109.0	104.0	157.0	69.0	149.5	485.0
28	29.0	53.0	43.0	64.0	66.0	84.0	59.0	53.0	25.0	11.0	3.0	0.0	1.0	5.0	16.0	19.0	17.0	8.0	20.0	10.0	6.0	10.0	14.0	7.0	26.0	84.0
29	3.0	5.0	13.0	37.0	14.0	7.0	0.0	0.0	9.0	8.0	8.0	32.0	25.0	36.0	53.0	17.0	20.0	13.0	13.0	22.0	4.0	10.0	42.0	112.0	21.0	112.0
30	81.0	124.0	142.0	134.0	101.0	62.0	59.0	98.0	82.0	106.0	86.0	99.0	146.0	187.0	250.0	113.0	178.0	98.0	86.0	154.0	183.0	198.0	248.0	141.0	131.5	250.0
NO.	30	30	30	29	30	29	30	30	30	30	29	30	29	29	30	30	30	30	30	30	30	30	28		713	99.2%
MEAN	73.9	69.4	70.6	53.2	56.8	45.9	63.4	68.4	74.2	85.0	105.3	97.5	93.7	105.8	121.6	106.0	107.1	76.2	75.5	81.7	76.2	68.7	104.5	93.7	42.0	
MAX	400.0	232.0	485.0	473.0	485.0	133.0	293.0	485.0	485.0	485.0	485.0	485.0	396.0	485.0	485.0	313.0	485.0	384.0	277.0	461.0	485.0	482.0	403.0	421.0	91.1	433.3



Number of Non-Zero Readings	703
Maximum 1-HR Average	485.0 UG/M3
Maximum 24-HR Average	230.3 UG/M3
Monthly Calibration	1
Standard Deviation	96.78
Operational Time	714 HRS
Operational Uptime	99.2 %
Monthly Average	82.2 UG/M3

Windridge TSP (µg/m³) – November 2021

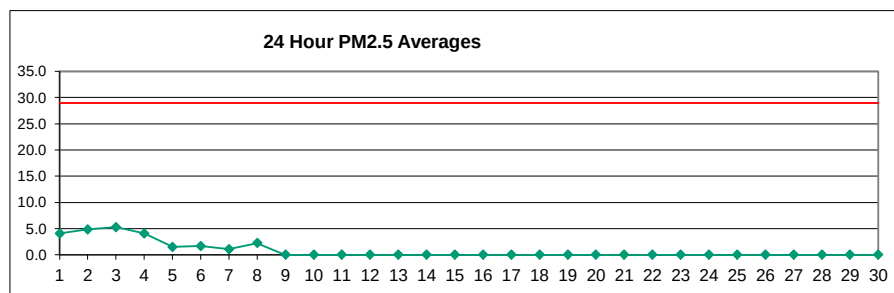
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	19.0	19.0	9.0	8.0	12.0	11.0	28.0	34.0	24.0	48.0	32.0	48.0	34.0	66.0	53.0	73.0	45.0	38.0	33.0	17.0	10.0	7.0	6.0	8.0	28.4	73.0
2	11.0	19.0	21.0	21.0	14.0	15.0	12.0	10.0	16.0	10.0	20.0	15.0	49.0	18.0	82.0	20.0	17.0	7.0	8.0	10.0	10.0	24.0	11.0	6.0	18.6	82.0
3	10.0	236.0	13.0	38.0	95.0	145.0	146.0	207.0	125.0	116.0	115.0	131.0	202.0	247.0	122.0	170.0	221.0	238.0	189.0	217.0	180.0	137.0	176.0	72.0	147.8	247.0
4	139.0	81.0	11.0	7.0	5.0	7.0	16.0	5.0	13.0	16.0	10.0	8.0	13.0	38.0	88.0	158.0	110.0	76.0	123.0	114.0	68.0	73.0	191.0	161.0	63.8	191.0
5	107.0	119.0	108.0	80.0	93.0	219.0	252.0	176.0	168.0	253.0	232.0	150.0	138.0	55.0	50.0	51.0	58.0	111.0	128.0	185.0	49.0	96.0	85.0	26.0	124.5	253.0
6	132.0	26.0	26.0	51.0	43.0	78.0	39.0	50.0	60.0	6.0	3.0	18.0	92.0	139.0	84.0	90.0	78.0	24.0	95.0	40.0	7.0	40.0	115.0	19.0	56.5	139.0
7	100.0	80.0	72.0	31.0	16.0	37.0	28.0	19.0	75.0	50.0	169.0	76.0	30.0	40.0	48.0	196.0	191.0	26.0	27.0	38.0	31.0	15.0	20.0	1.0	59.0	196.0
8	21.0	28.0	12.0	9.0	9.0	29.0	52.0	148.0	280.0	285.0	235.0	195.0	102.0	122.0	193.0	138.0	196.0	113.0	195.0	34.0	101.0	117.0	101.0	70.0	116.0	285.0
9	10.0	16.0	1.0	14.0	26.0	19.0	72.0	82.0	86.0	122.0	43.0	64.0	55.0	201.0	271.0	426.0	285.0	93.0	180.0	126.0	300.0	196.0	549.0	611.0	160.3	611.0
10	396.0	298.0	351.0	130.0	107.0	111.0	168.0	152.0	297.0	616.0	445.0	384.0	308.0	174.0	231.0	122.0	108.0	151.0	163.0	112.0	99.0	89.0	144.0	120.0	219.8	616.0
11	54.0	13.0	14.0	11.0	3.0	11.0	47.0	9.0	24.0	39.0	40.0	44.0	62.0	69.0	45.0	83.0	121.0	13.0	19.0	59.0	153.0	112.0	167.0	173.0	57.7	173.0
12	221.0	248.0	465.0	468.0	221.0	68.0	130.0	82.0	87.0	70.0	64.0	79.0	19.0	16.0	17.0	9.0	11.0	6.0	1.0	2.0	12.0	13.0	31.0	34.0	98.9	468.0
13	50.0	13.0	31.0	32.0	10.0	10.0	24.0	80.0	64.0	75.0	91.0	119.0	139.0	224.0	210.0	130.0	125.0	128.0	100.0	149.0	36.0	18.0	31.0	12.0	79.2	224.0
14	10.0	11.0	8.0	12.0	17.0	27.0	46.0	40.0	38.0	46.0	23.0	8.0	4.0	1.0	4.0	3.0	2.0	2.0	4.0	5.0	7.0	5.0	17.0	7.0	14.3	46.0
15	6.0	3.0	1.0	1.0	2.0	10.0	6.0	4.0	1.0	0.0	1.0	4.0	X	X	50.0	58.0	31.0	14.0	8.0	13.0	19.0	13.0	67.0	66.0	17.2	67.0
16	40.0	51.0	66.0	64.0	65.0	X	X	X	X	X	X	X	108.0	C	149.0	166.0	134.0	140.0	124.0	150.0	129.0	96.0	172.0	110.0		
17	40.0	67.0	18.0	26.0	10.0	8.0	19.0	16.0	48.0	112.0	419.0	320.0	210.0	179.0	303.0	242.0	376.0	553.0	358.0	378.0	217.0	156.0	303.0	452.0	201.3	553.0
18	165.0	200.0	62.0	63.0	54.0	93.0	125.0	53.0	17.0	15.0	25.0	25.0	105.0	346.0	218.0	177.0	222.0	104.0	206.0	130.0	36.0	7.0	76.0	203.0	113.6	346.0
19	38.0	29.0	7.0	7.0	4.0	3.0	9.0	25.0	53.0	58.0	183.0	82.0	200.0	117.0	153.0	170.0	234.0	171.0	88.0	41.0	76.0	46.0	243.0	262.0	95.8	262.0
20	241.0	326.0	211.0	132.0	202.0	171.0	432.0	985.0	639.0	985.0	985.0	640.0	403.0	665.0	529.0	376.0	207.0	28.0	22.0	12.0	13.0	8.0	6.0	17.0	343.1	985.0
21	33.0	36.0	114.0	154.0	81.0	135.0	218.0	163.0	157.0	113.0	102.0	56.0	90.0	76.0	169.0	333.0	152.0	134.0	79.0	143.0	340.0	265.0	265.0	513.0	163.4	513.0
22	521.0	204.0	54.0	43.0	21.0	22.0	80.0	89.0	140.0	175.0	391.0	446.0	310.0	233.0	207.0	162.0	152.0	131.0	71.0	57.0	34.0	59.0	48.0	29.0	153.3	521.0
23	35.0	9.0	6.0	8.0	6.0	15.0	22.0	52.0	32.0	35.0	50.0	32.0	44.0	77.0	25.0	6.0	24.0	6.0	8.0	10.0	10.0	7.0	7.0	6.0	22.2	77.0
24	15.0	19.0	14.0	9.0	19.0	14.0	11.0	7.0	41.0	33.0	44.0	66.0	66.0	243.0	388.0	329.0	186.0	197.0	253.0	571.0	615.0	556.0	480.0	542.0	196.6	110.0
25	403.0	323.0	731.0	531.0	521.0	151.0	169.0	165.0	164.0	121.0	86.0	123.0	90.0	142.0	113.0	96.0	91.0	99.0	88.0	93.0	147.0	127.0	231.0	110.0	204.8	731.0
26	59.0	98.0	120.0	77.0	144.0	94.0	113.0	162.0	102.0	134.0	137.0	87.0	96.0	140.0	120.0	206.0	115.0	126.0	159.0	46.0	26.0	20.0	20.0		106.3	206.0
27	28.0	10.0	8.0	8.0	9.0	7.0	16.0	16.0	25.0	109.0	373.0	219.0	588.0	398.0	606.0	376.0	779.0	407.0	314.0	216.0	151.0	126.0	185.0	82.0	210.7	779.0
28	29.0	51.0	51.0	63.0	66.0	73.0	55.0	36.0	9.0	9.0	8.0	3.0	3.0	5.0	4.0	3.0	3.0	3.0	1.0	3.0	5.0	4.0	11.0	7.0	21.0	73.0
29	8.0	6.0	5.0	18.0	7.0	3.0	4.0	3.0	8.0	10.0	8.0	47.0	32.0	51.0	77.0	21.0	24.0	12.0	21.0	36.0	6.0	11.0	63.0	155.0	26.5	155.0
30	93.0	132.0	174.0	143.0	131.0	85.0	92.0	140.0	117.0	150.0	133.0	146.0	180.0	247.0	271.0	158.0	225.0	125.0	112.0	189.0	195.0	211.0	254.0	124.0	159.5	271.0
NO.	30	30	30	30	30	29	29	29	29	29	29	29	29	28	30	30	30	30	30	30	30	30	30	30	710	98.8%
MEAN	101.1	92.4	92.8	75.3	67.1	57.6	83.8	103.8	100.3	131.4	154.5	127.1	129.8	153.0	163.3	148.7	153.8	108.8	104.8	110.3	103.2	88.7	135.8	133.9		
MAX	521.0	326.0	731.0	531.0	521.0	219.0	432.0	985.0	639.0	985.0	985.0	640.0	588.0	665.0	606.0	426.0	779.0	553.0	358.0	571.0	615.0	556.0	549.0	611.0		



Number of 24HR Exceedences	15	Proposed Guideline
Number of Non-Zero Readings	709	
Maximum 1-HR Average	985.0 UG/M3	
Maximum 24-HR Average	343.1 UG/M3	
IZS Calibration Time		Operational Time 711 HRS
Down Time	0	Operational Uptime 98.8 %
Standard Deviation	139.6	Monthly Average 113.3 UG/M3

West PM_{2.5} (µg/m³) – November 2021

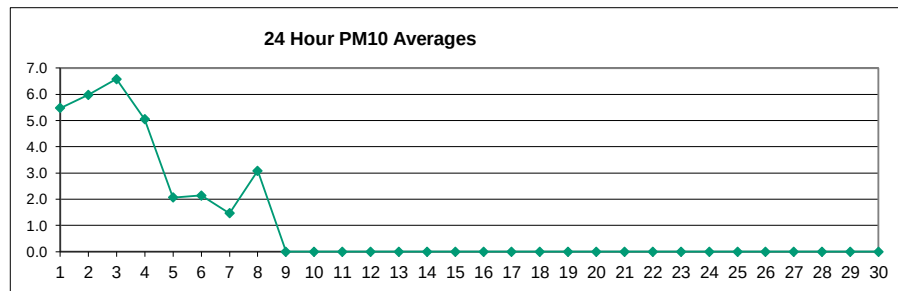
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.0	3.1	3.7	3.1	3.3	3.6	4.3	4.6	6.2	6.6	6.5	6.2	5.6	5.3	5.5	6.0	4.3	2.5	4.9	2.7	2.0	1.8	1.4	1.4	4.1	6.6
2	1.2	1.1	1.2	1.2	1.4	2.1	2.4	2.6	3.9	4.6	5.7	6.2	5.8	4.8	5.8	8.4	8.0	7.0	6.4	7.6	7.6	6.9	6.8	7.7	4.9	8.4
3	8.1	7.9	6.8	6.4	6.4	7.9	7.6	7.2	8.2	7.1	6.5	6.4	4.7	2.9	4.2	6.9	2.8	2.5	2.6	3.1	1.9	2.3	2.0	3.8	5.2	8.2
4	3.9	4.5	4.2	4.6	4.7	5.2	5.5	5.9	6.1	6.8	7.0	7.2	6.9	7.1	5.7	4.0	1.7	1.3	1.4	1.1	1.0	1.0	0.6	0.4	4.1	7.2
5	0.3	0.4	0.4	0.3	0.4	1.1	2.7	1.5	1.6	3.4	3.1	2.7	2.8	2.6	3.0	2.9	1.8	1.0	0.6	0.7	0.5	0.5	0.8	0.6	1.5	3.4
6	1.3	0.3	0.3	0.5	1.1	1.1	1.5	1.3	1.8	2.4	2.3	2.8	1.9	1.5	1.9	1.5	1.7	1.3	3.2	2.6	2.4	2.3	1.8	0.9	1.7	3.2
7	1.0	0.7	1.6	0.7	0.5	0.4	0.5	0.5	1.6	1.2	0.4	2.5	1.9	2.1	1.4	1.7	1.7	0.7	0.8	0.8	0.7	0.8	0.7	1.0	1.1	2.5
8	1.2	0.9	0.7	1.7	1.2	0.8	1.5	2.6	4.8	3.2	3.4	2.7	2.7	2.6	2.6	3.1	3.1	1.5	1.5	2.4	2.5	2.2	2.2	2.5	2.2	4.8
9	1.9	2.1	2.0	2.4	2.4	2.5	2.9	5.6	7.3	7.5	5.9	6.8	6.4	5.6	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
23	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
24	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
25	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
26	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
27	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
28	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
29	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
30	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
NO.	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	206	29%
MEAN	2.4	2.3	2.3	2.3	2.4	2.8	3.2	3.5	4.6	4.7	4.5	4.8	4.3	3.8	3.8	4.3	3.2	2.2	2.6	2.6	2.3	2.2	2.0	2.3		
MAX	8.1	7.9	6.8	6.4	6.4	7.9	7.6	7.2	8.2	7.5	7.0	7.2	6.9	7.1	5.8	8.4	8.0	7.0	6.4	7.6	7.6	6.9	6.8	7.7		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	206	
Maximum 1-HR Average	8.4 UG/M3	
Maximum 24-HR Average	5.2 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	2.295	Monthly Average
		206 HRS
		28.6 %
		3.2 UG/M3

West PM₁₀ (µg/m³) – November 2021

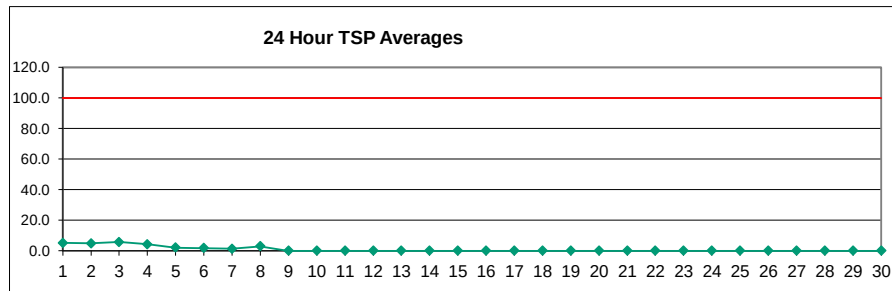
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.2	3.2	4.2	3.3	3.6	4.2	5.9	6.5	8.9	9.7	9.6	9.0	8.1	7.5	8.0	8.8	6.2	3.3	7.1	3.5	2.3	2.0	1.7	1.5	5.5	9.7
2	1.3	1.2	1.4	1.4	1.6	2.7	3.2	3.5	5.6	6.6	8.3	9.1	8.3	6.8	8.0	11.2	9.7	7.9	7.0	8.1	8.2	7.2	7.1	8.1	6.0	11.2
3	8.8	8.6	7.0	6.6	7.0	9.5	9.9	9.7	10.9	9.0	9.3	9.3	6.6	4.1	6.2	10.2	3.7	3.2	3.3	3.6	2.1	2.7	2.4	4.3	6.6	10.9
4	4.4	5.0	4.6	4.8	5.0	5.5	5.9	6.9	7.8	8.8	9.0	9.6	9.7	10.0	8.3	5.8	2.3	1.6	1.7	1.2	1.2	1.1	0.7	0.5	5.1	10.0
5	0.4	0.5	0.5	0.4	0.4	1.6	4.0	2.1	2.3	5.0	4.5	4.0	4.1	3.6	4.2	4.1	2.4	1.2	0.6	0.8	0.6	0.6	1.1	0.7	2.1	5.0
6	1.8	0.4	0.4	0.5	1.5	1.5	2.0	1.8	2.5	3.4	3.2	4.0	2.6	1.9	2.5	1.9	2.2	1.5	4.2	3.1	2.9	2.5	2.2	0.9	2.1	4.2
7	1.2	0.8	2.4	0.8	0.6	0.4	0.6	0.5	2.3	1.7	0.5	3.7	2.7	3.0	2.0	2.4	2.5	0.9	0.9	1.0	0.9	1.1	0.9	1.3	1.5	3.7
8	1.5	1.2	0.8	2.4	1.7	1.1	2.1	3.8	7.1	4.6	5.0	4.0	3.9	3.8	3.8	4.4	4.4	2.0	1.8	3.2	3.2	2.7	2.6	2.8	3.1	7.1
9	2.1	2.4	2.2	2.8	2.6	2.8	3.3	8.0	10.9	11.1	8.7	10.2	9.6	8.4	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
23	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
24	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
25	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
26	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
27	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
28	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
29	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
30	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
NO.	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	206	29%
MEAN	2.7	2.6	2.6	2.6	2.7	3.3	4.1	4.8	6.5	6.7	6.5	7.0	6.2	5.5	5.4	6.1	4.2	2.7	3.3	3.1	2.7	2.5	2.3	2.5		
MAX	8.8	8.6	7.0	6.6	7.0	9.5	9.9	9.7	10.9	11.1	9.6	10.2	9.7	10.0	8.3	11.2	9.7	7.9	7.1	8.1	8.2	7.2	7.1	8.1		



Number of Non-Zero Readings	206		
Maximum 1-HR Average	11.2 UG/M3		
Maximum 24-HR Average	6.6 UG/M3		
IZS Calibration Time		OperatioEl Time	206 HRS
Down Time	0	OperatioEl Uptime	28.6 %
Standard Deviation	3.0	Monthly Average	4.1 UG/M3

West TSP (µg/m³) – November 2021

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.1	2.1	3.3	2.2	2.6	3.2	5.3	6.1	8.8	10.4	10.3	9.4	8.3	7.5	8.4	9.4	6.2	2.4	6.4	2.6	1.6	1.4	1.2	1.1	5.1	10.4
2	0.9	0.8	1.0	0.9	1.1	2.3	2.8	3.1	5.3	6.7	8.5	9.0	7.9	6.4	7.6	9.6	6.5	5.2	4.6	5.3	5.3	4.7	4.6	5.3	4.8	9.6
3	5.8	5.8	4.6	4.3	4.6	7.1	9.0	9.2	10.7	9.7	9.1	9.6	6.3	4.1	6.7	11.4	3.0	2.5	2.6	2.7	1.5	2.0	1.7	2.9	5.7	11.4
4	3.0	3.3	3.1	3.1	3.2	3.7	4.0	5.1	6.5	8.1	9.0	9.8	9.0	9.9	8.6	5.8	1.9	1.2	1.3	0.9	0.8	0.7	0.5	0.4	4.3	9.9
5	0.3	0.3	0.4	0.3	0.3	1.6	4.2	2.1	2.3	5.3	4.8	4.1	4.1	3.4	3.9	4.0	2.1	0.9	0.4	0.6	0.4	0.5	1.0	0.5	2.0	5.3
6	1.8	0.3	0.3	0.4	1.2	1.3	1.9	1.7	2.4	3.4	3.1	4.0	2.3	1.6	2.1	1.5	1.7	1.0	3.3	2.2	2.1	1.7	1.8	0.6	1.8	4.0
7	0.9	0.6	2.2	0.6	0.4	0.3	0.4	0.4	2.2	1.6	0.4	4.1	2.8	3.1	1.9	2.2	2.2	0.7	0.6	0.7	0.7	1.1	0.7	1.1	1.3	4.1
8	1.2	1.0	0.6	2.4	1.7	1.0	2.1	4.1	7.9	5.0	5.5	4.3	4.1	4.0	3.9	4.6	4.4	1.7	1.4	2.7	2.5	1.9	1.8	1.8	3.0	7.9
9	1.4	1.7	1.5	1.9	1.7	1.8	2.2	7.4	11.6	12.0	8.9	11.4	10.6	8.9	G	G	G	G	G	G	G	G	G	G	-	-
10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
11	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
12	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
13	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
15	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
16	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
17	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
18	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
19	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
20	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
21	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
22	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
23	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
24	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
25	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
26	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
27	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
28	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
29	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
30	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
NO.	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	206	29%
MEAN	1.9	1.8	1.9	1.8	1.9	2.5	3.5	4.3	6.4	6.9	6.6	7.3	6.2	5.4	5.4	6.1	3.5	1.9	2.6	2.2	1.9	1.7	1.7	1.7		
MAX	5.8	5.8	4.6	4.3	4.6	7.1	9.0	9.2	11.6	12.0	10.3	11.4	10.6	9.9	8.6	11.4	6.5	5.2	6.4	5.3	5.3	4.7	4.6	5.3		

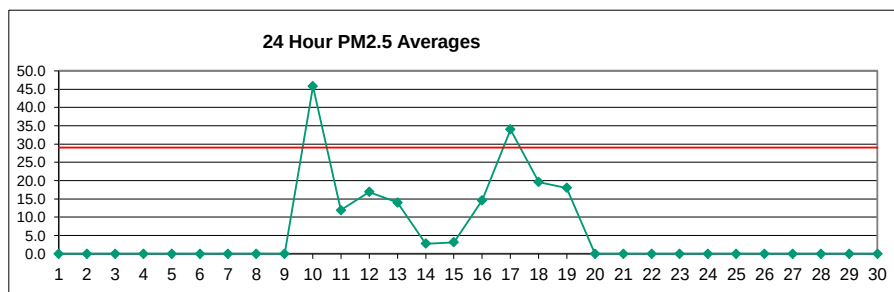


Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	206	
Maximum 1-HR Average	11.4 UG/M3	
Maximum 24-HR Average	5.7 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	3.043	Monthly Average
		206 HRS
		28.6 %
		3.7 UG/M3

Berm PM_{2.5} (µg/m³) – November 2021

DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	78.6	43.6	26.8	49.9	31.0	65.1	51.6	146.0	123.1	-	-
10	74.8	37.0	43.1	19.1	8.2	25.5	47.4	48.7	50.0	123.9	129.3	103.7	55.1	45.1	41.2	36.6	29.5	29.1	34.8	25.8	26.0	9.0	31.3	24.6	45.8	129.3
11	7.0	2.1	2.3	1.2	1.3	2.0	7.6	2.0	4.3	6.6	5.9	7.5	23.7	28.7	20.5	17.8	20.1	3.1	3.0	6.7	29.2	15.0	29.5	40.1	12.0	40.1
12	56.0	34.9	77.6	68.6	25.0	11.6	24.1	18.4	15.3	12.5	9.4	11.5	4.4	3.1	3.8	1.9	2.4	3.2	2.9	4.4	3.5	3.7	4.5	3.5	16.9	77.6
13	13.0	5.7	5.1	4.7	0.5	0.7	0.8	2.0	6.2	13.1	18.5	21.7	20.3	43.4	38.5	26.7	28.5	26.8	14.4	25.4	8.2	3.4	5.3	3.7	14.0	43.4
14	3.0	4.9	5.3	8.0	7.3	4.7	4.5	3.4	1.6	1.3	0.4	0.3	0.3	0.2	0.2	0.4	0.8	2.3	2.5	2.8	1.1	4.6	5.5	1.0	2.8	8.0
15	0.7	0.6	0.3	0.3	0.3	0.3	0.5	0.3	1.0	0.9	1.0	2.4	2.8	4.0	11.2	10.2	8.2	6.8	4.3	2.7	4.7	2.1	3.7	6.0	3.1	11.2
16	6.0	5.5	4.2	4.3	5.1	4.9	11.4	7.2	11.8	10.6	13.3	13.5	15.0	12.2	15.4	29.4	30.4	20.8	25.7	28.6	21.2	17.6	24.8	12.6	14.6	30.4
17	5.5	6.6	2.1	4.2	2.8	3.8	3.9	5.5	4.6	16.9	66.0	55.1	43.0	40.4	56.1	46.3	67.5	80.2	62.8	52.4	35.4	23.5	54.6	76.1	34.0	80.2
18	18.8	19.6	5.3	6.5	6.1	10.6	17.4	5.7	2.5	3.7	4.1	4.2	15.3	61.6	49.6	48.0	50.9	28.9	39.2	20.7	5.5	3.4	10.9	31.6	19.6	61.6
19	5.7	6.6	3.2	2.3	2.7	3.0	3.9	4.1	7.0	6.1	24.9	14.7	46.8	45.3	29.7	38.5	43.5	25.6	8.4	3.6	8.7	7.6	49.4	40.8	18.0	49.4
20	53.2	46.1	20.7	17.2	21.6	23.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-

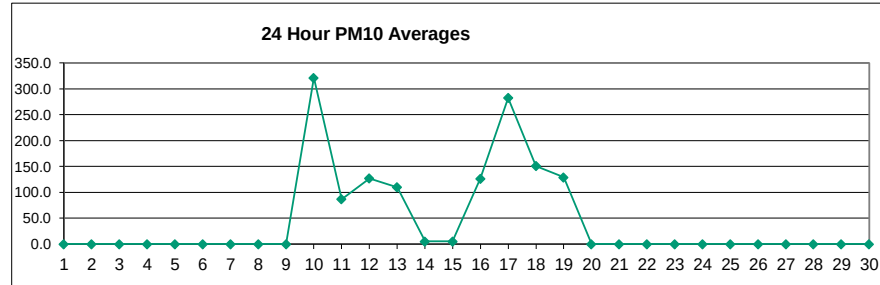
NO.	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	255	35%
MEAN	22.1	15.4	15.4	12.4	7.3	8.2	12.1	9.7	10.4	19.5	27.3	23.5	22.7	28.4	26.6	30.4	29.6	23.1	22.5	18.5	19.0	12.9	33.2	33.0		
MAX	74.8	46.1	77.6	68.6	25.0	25.5	47.4	48.7	50.0	123.9	129.3	103.7	55.1	61.6	56.1	78.6	67.5	80.2	62.8	52.4	65.1	51.6	146.0	123.1		



Number of 24HR Exceedences	2	Proposed Guideline	
Number of Non-Zero Readings	255		
Maximum 1-HR Average	129.3 UG/M3		
Maximum 24-HR Average	45.8 UG/M3		
Monthly Calibration	0	Operational Time	255 HRS
Standard Deviation	24.2	Operational Uptime	35.4 %
		Monthly Average	20.1 UG/M3

Berm PM₁₀ (µg/m³) – November 2021

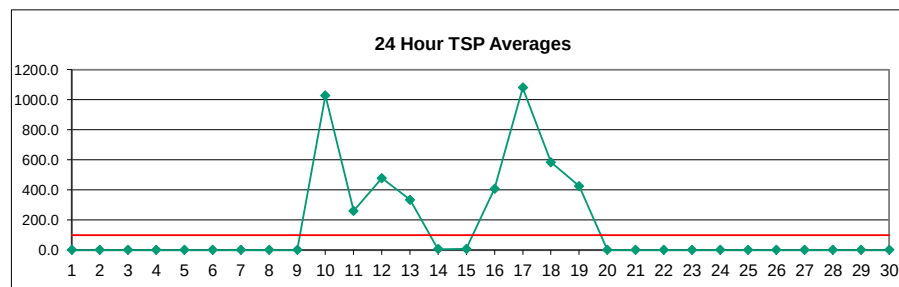
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	562.8	380.3	225.4	396.1	279.9	566.7	387.8	1085.2	922.7	-	-
10	529.3	273.2	300.9	122.8	43.9	165.0	333.9	351.1	347.0	852.7	889.3	692.5	387.0	329.8	302.2	250.7	218.8	219.3	259.1	188.6	188.0	61.8	224.3	184.5	321.5	889.3
11	47.0	9.1	11.6	4.0	3.8	11.2	51.8	8.3	21.4	42.1	37.1	62.3	160.1	164.8	127.3	127.5	188.4	10.5	14.8	49.3	255.6	110.8	242.9	319.8	86.7	319.8
12	419.0	242.7	619.4	587.7	203.7	94.5	191.6	156.9	120.9	92.4	68.0	91.4	25.2	15.1	18.0	2.6	3.4	4.8	4.3	10.4	14.4	18.4	27.5	22.3	127.3	619.4
13	65.5	15.5	7.6	7.0	0.7	1.0	1.1	7.2	49.5	117.6	162.3	207.7	178.0	372.5	320.2	219.8	223.4	220.9	106.7	226.4	64.7	16.3	28.0	22.1	110.1	372.5
14	14.3	22.3	14.7	11.8	10.8	6.9	6.7	5.0	2.3	1.9	0.5	0.3	0.3	0.3	0.3	0.4	1.1	3.4	3.5	4.0	1.4	6.8	8.0	1.2	5.3	22.3
15	0.7	0.6	0.3	0.3	0.3	0.3	0.5	0.4	1.0	1.1	1.2	2.7	3.2	5.1	14.1	13.2	11.4	10.1	6.3	3.8	6.8	3.0	6.7	37.1	5.4	37.1
16	35.9	31.7	28.4	28.2	35.9	35.4	99.5	60.1	101.5	98.3	110.3	125.2	130.0	112.2	141.8	247.1	239.0	168.3	221.8	269.3	204.6	140.8	251.3	121.8	126.6	269.3
17	44.1	60.0	16.4	29.1	13.2	17.4	18.0	28.1	36.4	149.7	601.5	423.4	318.0	291.7	433.5	382.7	578.7	704.7	521.0	439.5	321.0	189.5	484.1	682.5	282.7	704.7
18	150.2	155.2	40.4	63.1	44.8	82.2	142.0	41.1	11.1	16.8	19.1	21.8	137.2	534.5	372.4	346.0	369.2	216.2	300.0	169.7	32.4	11.1	86.0	260.5	151.0	534.5
19	34.5	34.4	5.3	2.6	3.2	3.7	5.2	5.7	10.3	10.9	213.4	127.6	349.7	313.0	212.6	307.1	340.4	172.8	64.2	20.1	74.5	50.0	399.3	336.3	129.0	399.3
20	396.6	364.0	178.9	137.3	175.7	163.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
NO.	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	255	35%
MEAN	157.9	109.9	111.3	90.3	48.7	52.8	85.0	66.4	70.1	138.4	210.3	175.5	168.9	213.9	194.2	223.6	232.2	177.9	172.5	151.0	157.3	90.6	258.5	264.6		
MAX	529.3	364.0	619.4	587.7	203.7	165.0	333.9	351.1	347.0	852.7	889.3	692.5	387.0	534.5	433.5	562.8	578.7	704.7	521.0	439.5	566.7	387.8	1085.2	922.7		



Number of Non-Zero Readings	255
Maximum 1-HR Average	889.3 UG/M3
Maximum 24-HR Average	321.5 UG/M3
Monthly Calibration	0
Standard Deviation	189.4
Operational Time	255 HRS
Operational Uptime	35.4 %
Monthly Average	151.0 UG/M3

Berm TSP ($\mu\text{g}/\text{m}^3$) – November 2021

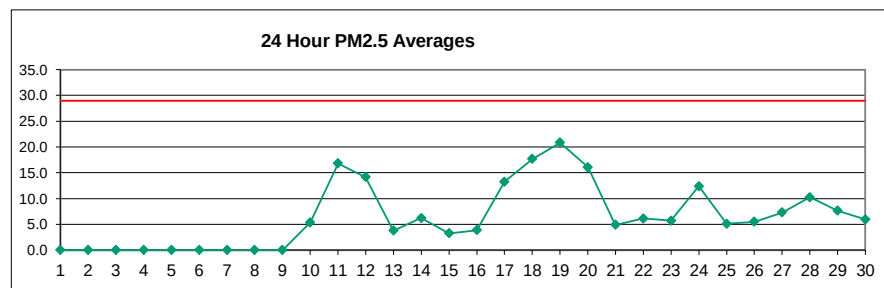
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	1506.2	998.9	620.2	1207.9	820.2	1547.9	1134.2	2799.9	2848.1	-	-
10	1724.8	1003.8	1024.4	337.0	131.0	514.0	1044.4	1025.4	1100.1	2549.0	2686.7	2118.4	1254.8	1144.2	1165.3	902.4	699.1	792.4	891.5	615.9	542.5	173.1	713.2	511.4	1027.7	2686.7
11	166.9	26.8	35.3	7.8	5.3	28.8	124.1	18.5	64.9	112.2	88.4	159.5	415.0	392.2	292.1	358.5	599.0	17.5	35.5	161.7	839.9	374.3	846.1	1066.9	259.9	1066.9
12	1498.6	835.5	2397.7	2432.0	935.7	380.1	682.5	570.4	458.6	330.3	238.4	304.8	72.1	30.1	33.1	2.5	3.5	5.0	4.5	9.6	15.9	23.4	91.4	124.8	478.3	2432.0
13	92.5	27.7	8.5	7.8	0.6	0.8	1.0	29.7	182.8	375.7	553.3	704.3	630.3	1276.7	1145.3	718.2	638.6	584.3	278.3	518.3	138.6	31.0	36.7	41.2	334.3	1276.7
14	22.3	21.7	13.5	12.8	11.5	6.6	6.1	3.8	2.2	1.8	0.4	0.2	0.2	0.2	0.2	0.3	0.9	3.4	3.5	4.1	1.0	7.3	7.1	0.8	5.5	22.3
15	0.5	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.7	0.8	1.8	2.3	3.8	15.7	14.7	11.9	10.3	6.3	3.9	6.5	2.8	7.4	80.6	7.2	80.6
16	101.2	201.4	62.8	52.6	99.1	87.5	596.8	257.3	394.1	373.2	421.8	474.3	490.7	374.4	430.5	706.2	629.6	442.6	548.4	730.4	592.4	429.2	869.2	399.7	406.9	869.2
17	175.2	254.5	75.6	111.7	28.7	24.5	29.8	53.9	138.5	576.2	2053.2	1495.7	1097.3	980.9	1466.6	1428.7	2270.1	2798.4	2166.4	1865.2	1294.7	799.6	1962.4	2738.2	1078.6	2798.4
18	689.3	701.4	164.2	248.6	220.9	368.0	631.7	165.9	26.0	49.9	50.5	79.5	498.8	2114.8	1379.2	1237.2	1381.9	843.2	1126.2	682.4	103.6	17.3	278.4	956.0	583.9	2114.8
19	145.2	145.7	5.8	1.8	2.5	3.0	4.8	5.4	11.2	17.4	825.1	426.8	1095.4	987.1	639.2	932.1	1143.2	573.0	175.3	55.2	248.5	169.4	1420.6	1154.9	424.5	1420.6
20	1441.2	1505.5	764.0	545.7	699.4	669.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
NO.	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	255	35%
MEAN	550.7	429.5	413.8	341.6	194.1	189.4	312.1	213.1	237.9	438.6	691.9	576.5	555.7	730.4	656.7	709.7	761.5	608.2	585.8	497.0	484.7	287.4	821.1	902.1		
MAX	1724.8	1505.5	2397.7	2432.0	935.7	669.7	1044.4	1025.4	1100.1	2549.0	2686.7	2118.4	1254.8	2114.8	1466.6	1506.2	2270.1	2798.4	2166.4	1865.2	1547.9	1134.2	2799.9	2848.1		



Number of 24HR Exceedences	8	Proposed Guideline
Number of Non-Zero Readings	255	
Maximum 1-HR Average	2798.4 UG/M3	
Maximum 24-HR Average	1078.6 UG/M3	
IZS Calibration Time		Operational Time 255 HRS
Monthly Calibration	0	Operational Uptime 35.4 %
Standard Deviation	644.7	Monthly Average 508.5 UG/M3

Entrance PM_{2.5} (µg/m³) – November 2021

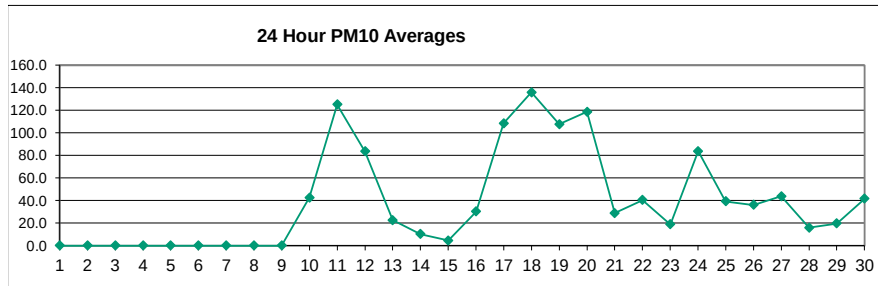
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	11.5	17.2	9.7	5.0	12.9	2.1	5.5	3.2	7.5	6.3	-	-
10	7.3	4.7	3.9	1.5	1.4	1.4	1.7	5.3	7.4	12.6	12.9	14.6	11.8	9.5	10.9	3.4	4.6	5.4	3.5	1.2	1.1	1.0	1.1	1.1	5.4	14.6
11	2.4	9.9	17.2	16.4	15.5	32.1	26.1	41.1	49.4	34.1	36.2	36.0	6.2	6.0	4.2	4.7	9.0	18.0	14.1	4.4	9.1	3.0	4.0	4.6	16.8	49.4
12	10.3	7.0	21.2	16.2	7.1	5.7	8.5	16.6	26.8	30.7	30.1	37.2	22.2	21.0	7.1	6.9	5.7	12.1	13.1	17.8	7.4	3.7	2.1	2.8	14.1	37.2
13	2.6	7.6	5.1	6.0	2.1	2.7	2.7	0.8	3.0	1.9	4.4	10.8	5.3	4.1	5.3	8.4	3.5	1.4	1.7	0.9	1.8	1.6	4.3	2.3	3.8	10.8
14	1.2	6.7	4.1	3.5	10.8	4.7	6.1	4.8	3.1	5.3	2.7	1.0	1.0	1.1	1.5	2.3	7.1	13.7	12.0	19.6	19.0	12.2	4.7	0.9	6.2	19.6
15	0.5	0.5	0.4	0.6	0.2	0.3	0.4	0.9	0.5	1.2	1.4	3.4	4.1	4.8	8.9	15.1	8.8	7.1	4.9	3.9	5.8	3.2	0.3	1.2	3.3	15.1
16	3.5	0.8	0.5	0.6	0.9	2.3	5.0	4.4	4.2	5.0	7.1	7.3	5.8	5.9	10.0	6.2	7.7	7.8	1.9	0.9	1.0	1.4	0.9	1.1	3.8	10.0
17	2.2	1.7	5.6	5.1	15.1	19.6	29.2	40.2	16.4	15.6	18.7	15.6	12.4	10.2	16.4	18.0	15.9	27.7	8.6	3.6	4.0	2.9	6.2	6.7	13.2	40.2
18	3.9	3.0	3.6	20.2	14.5	7.0	21.3	30.3	28.4	37.0	47.3	32.4	13.3	26.2	19.8	18.5	13.3	7.1	5.3	4.9	15.6	25.7	13.3	11.9	17.7	47.3
19	7.4	16.2	24.4	30.2	27.8	27.0	40.6	43.1	42.2	39.5	36.0	48.6	12.7	11.0	7.0	8.9	6.4	6.5	4.0	12.8	22.7	6.3	12.6	6.8	20.9	48.6
20	5.7	6.8	4.5	4.1	11.9	6.8	11.2	132.6	24.0	27.8	26.8	21.6	13.0	11.9	10.4	9.3	10.4	9.8	7.1	6.2	5.4	5.8	5.7	7.4	16.1	132.6
21	9.1	11.8	2.7	4.1	1.7	3.6	7.1	3.0	2.7	3.5	3.8	3.9	2.0	2.5	3.0	6.6	2.1	1.8	1.8	4.1	10.5	4.4	5.6	16.5	4.9	16.5
22	16.4	5.3	2.4	2.9	3.4	3.4	2.9	3.5	7.2	7.3	13.5	10.6	13.4	11.7	13.8	10.2	3.7	4.1	1.5	1.7	2.7	1.4	2.2	2.2	6.1	16.4
23	2.1	3.9	7.3	22.1	6.0	2.3	3.3	3.6	7.0	10.0	8.9	9.9	15.3	6.0	3.4	2.2	3.4	2.4	3.7	6.3	2.3	2.3	1.7	1.7	5.7	22.1
24	3.7	4.0	3.9	6.2	16.2	37.2	31.7	12.7	13.7	15.8	15.4	4.3	3.7	4.5	9.9	8.3	13.2	14.7	6.6	10.7	23.4	15.6	10.2	11.9	12.4	37.2
25	11.1	12.1	15.1	9.7	12.2	4.4	3.5	2.3	2.1	2.4	2.5	3.9	3.2	3.5	5.6	5.1	3.9	3.1	2.6	3.5	2.5	1.4	3.1	3.8	5.1	15.1
26	3.9	2.1	3.1	5.7	2.4	3.3	2.1	4.0	7.9	4.8	5.1	5.5	9.5	4.4	8.3	9.6	10.2	9.2	3.9	2.6	9.2	5.7	4.1	4.9	5.5	10.2
27	4.1	4.9	5.9	3.7	3.9	5.4	7.0	8.4	6.7	6.9	13.4	12.9	15.7	13.7	17.0	5.7	9.8	8.9	3.7	2.0	2.2	2.4	3.4	6.9	7.3	17.0
28	2.9	2.8	2.6	2.1	4.0	0.9	0.6	4.0	5.9	8.7	12.4	14.0	14.9	22.6	21.9	16.1	19.4	20.6	19.4	12.0	12.3	7.5	5.5	12.9	10.3	22.6
29	3.4	2.4	3.5	3.8	16.3	19.7	14.3	14.4	4.2	8.1	17.4	4.6	8.1	5.1	3.5	6.9	6.5	7.9	5.9	4.3	7.2	8.9	3.1	3.2	7.6	19.7
30	1.9	2.5	3.5	2.5	1.3	2.5	2.3	6.0	8.7	9.6	8.4	10.4	11.5	7.1	13.5	9.6	11.9	6.4	4.0	1.7	1.7	6.8	5.6	3.3	5.9	13.5
NO.	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	514	71%
MEAN	5.0	5.6	6.7	8.0	8.3	9.2	10.8	18.2	12.9	13.7	15.4	14.7	9.8	9.2	9.7	9.1	8.5	9.1	6.5	5.8	7.8	5.8	4.9	5.5		
MAX	16.4	16.2	24.4	30.2	27.8	37.2	40.6	132.6	49.4	39.5	47.3	48.6	22.2	26.2	21.9	18.5	19.4	27.7	19.4	19.6	23.4	25.7	13.3	16.5		



Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	514		
Maximum 1-HR Average	132.6 UG/M3		
Maximum 24-HR Average	20.9 UG/M3		
Monthly Calibration	0	Operational Time	514 HRS
Standard Deviation	10.26	Operational Uptime	71.4 %
		Monthly Average	9.1 UG/M3

Entrance PM₁₀ (µg/m³) – November 2021

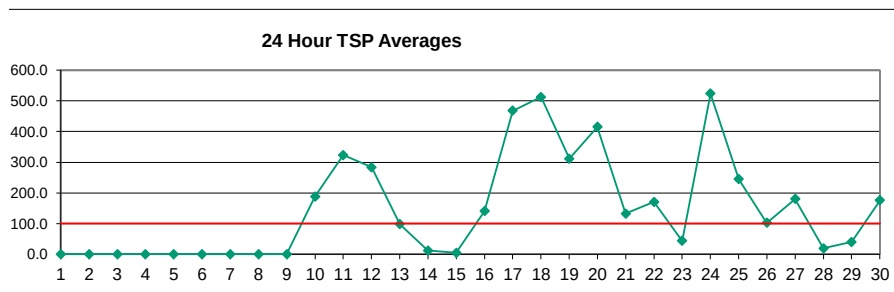
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	93.1	137.6	71.7	24.1	129.0	12.3	53.0	28.4	71.8	59.5	-	-
10	69.1	41.3	32.1	5.2	4.1	3.4	5.2	30.0	51.2	105.1	102.3	125.7	102.4	97.6	113.1	24.0	30.3	45.2	17.6	5.4	2.1	2.0	3.1	2.4	42.5	125.7
11	10.9	67.5	137.2	109.1	111.0	240.9	207.3	352.3	350.7	252.0	288.8	255.2	42.8	36.4	24.2	27.6	63.4	142.2	96.9	26.0	87.2	15.5	23.8	32.7	125.1	352.3
12	69.9	54.5	178.3	153.6	56.3	26.7	49.8	102.2	185.6	204.9	188.5	234.0	146.2	154.2	28.7	10.3	8.4	18.0	19.6	48.9	33.1	19.0	5.2	6.2	83.4	234.0
13	8.7	11.6	7.5	8.8	3.0	5.3	4.7	1.4	17.6	9.5	24.1	130.9	58.6	34.2	37.1	92.9	19.2	6.8	5.6	1.8	6.5	5.0	28.8	12.0	22.6	130.9
14	1.6	32.0	6.0	4.9	16.1	7.0	9.0	6.9	4.5	7.8	3.9	1.3	1.3	1.5	2.0	3.3	10.6	20.5	18.0	29.4	28.4	18.3	6.8	1.0	10.1	32.0
15	0.5	0.5	0.5	0.6	0.2	0.3	0.4	1.0	0.5	1.2	1.6	3.7	4.5	6.0	12.3	21.6	12.1	10.1	6.6	5.4	8.5	4.7	0.4	5.8	4.5	21.6
16	18.5	2.4	1.0	6.3	5.4	19.0	31.1	32.6	39.2	43.4	58.3	64.8	49.2	51.5	75.8	56.6	70.5	66.7	9.6	3.1	3.0	9.4	2.7	5.4	30.2	75.8
17	16.0	11.9	48.0	40.3	115.7	149.2	260.2	371.9	138.3	137.3	143.3	115.5	89.8	69.6	112.9	140.9	140.1	234.1	72.8	28.4	30.5	20.2	57.1	56.6	108.4	371.9
18	31.9	22.4	22.4	148.7	113.2	56.3	163.8	263.2	245.5	306.8	399.3	284.5	103.9	209.2	151.7	136.2	107.2	46.3	28.5	22.1	95.2	154.6	78.7	69.4	135.9	399.3
19	31.7	92.5	142.0	176.0	77.7	40.4	60.9	129.7	132.0	317.7	283.3	323.1	83.5	69.6	41.2	50.6	37.9	34.0	18.3	83.5	157.4	40.6	106.6	53.9	107.7	323.1
20	44.2	55.5	28.7	22.1	77.6	47.6	80.7	1198.7	194.6	229.9	231.4	160.2	101.5	78.0	69.1	56.8	86.0	35.4	9.8	8.4	6.6	6.8	6.9	10.1	118.6	1198.7
21	13.2	18.4	12.8	13.5	5.9	28.7	50.1	15.0	11.8	18.7	25.1	12.8	6.3	13.0	15.7	54.7	11.1	7.1	7.7	29.2	84.7	29.8	42.6	162.6	28.8	162.6
22	152.7	42.4	8.9	10.4	12.3	9.8	12.3	19.3	33.1	50.1	106.6	75.2	104.5	79.6	80.8	82.3	22.0	28.9	4.0	5.1	12.3	2.7	5.9	5.0	40.3	152.7
23	4.7	9.6	17.4	115.4	25.2	5.9	11.7	17.5	41.4	66.2	49.3	14.8	22.7	8.9	5.0	3.0	4.7	3.4	5.1	9.1	3.0	3.1	1.9	1.8	18.8	115.4
24	5.2	5.9	5.3	7.7	23.9	55.8	47.5	17.8	19.5	29.3	72.5	20.2	18.5	37.8	115.1	87.7	165.8	221.2	66.4	136.6	322.4	240.1	119.0	168.5	83.7	322.4
25	151.2	145.4	168.0	104.3	130.4	35.9	18.5	12.3	8.9	11.2	10.8	14.0	10.2	9.5	15.4	23.9	8.5	7.9	4.4	11.7	6.7	5.9	16.0	10.7	39.2	168.0
26	13.2	9.6	17.5	30.6	15.6	20.3	15.0	24.0	73.6	28.6	34.0	40.8	65.1	32.6	62.0	73.6	76.9	67.3	27.7	11.9	55.3	38.8	25.7	7.0	36.1	76.9
27	7.4	7.7	7.7	4.4	4.8	6.8	9.4	11.3	12.9	57.0	122.8	95.4	143.4	114.9	152.4	43.5	91.6	61.5	29.8	8.2	8.5	10.8	8.3	29.1	43.7	152.4
28	9.6	4.5	7.1	6.6	5.8	1.3	0.8	5.9	8.8	13.0	18.6	20.9	22.4	33.9	32.8	24.1	29.1	30.9	29.1	18.0	18.4	11.1	7.7	19.3	15.8	33.9
29	4.8	3.2	4.8	5.6	24.4	29.6	21.4	21.6	6.3	12.1	26.1	13.7	30.4	13.8	18.2	31.4	21.5	33.0	25.2	31.1	26.1	35.9	15.4	14.7	19.6	35.9
30	10.9	16.7	18.4	17.0	7.8	12.7	10.6	42.6	70.6	62.9	67.5	75.2	81.1	54.5	108.1	68.2	72.4	43.0	26.0	8.2	9.9	47.6	42.0	23.6	41.6	108.1
NO.	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	514	71%
MEAN	32.2	31.2	41.5	47.2	39.8	38.2	51.0	127.5	78.4	93.5	107.5	99.1	61.3	57.4	62.1	56.9	52.8	54.0	29.9	24.7	48.1	34.1	30.7	34.4		
MAX	152.7	145.4	178.3	176.0	130.4	240.9	260.2	1198.7	350.7	317.7	399.3	323.1	146.2	209.2	152.4	140.9	165.8	234.1	129.0	136.6	322.4	240.1	119.0	168.5		



Number of Non-Zero Readings	514
Maximum 1-HR Average	1198.7 UG/M3
Maximum 24-HR Average	135.9 UG/M3
Monthly Calibration	0
Standard Deviation	84.72
Operational Time	514 HRS
Operational Uptime	71.4 %
Monthly Average	55.3 UG/M3

Entrance TSP (µg/m³) – November 2021

HOURLY																											
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	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	-	-	
9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	356.1	415.5	181.7	38.5	816.7	50.7	255.9	140.3	443.9	326.8	-	-
10	391.9	232.4	162.0	24.0	16.9	12.0	9.4	77.5	173.1	398.2	407.7	531.9	466.2	477.3	668.2	110.7	83.7	178.4	54.5	20.2	4.9	3.4	12.1	2.9	188.3	668.2	
11	32.1	200.3	423.2	188.7	252.1	536.8	529.6	929.7	801.4	653.3	644.9	658.9	137.1	110.2	60.5	65.7	178.5	262.9	197.6	105.7	448.7	69.5	114.1	155.4	323.2	929.7	
12	340.6	325.1	1047.4	979.3	353.7	99.9	159.9	321.7	592.2	571.5	515.9	607.6	279.5	301.7	61.1	11.4	9.4	20.5	22.5	59.1	51.5	42.0	11.2	13.9	283.3	1047.4	
13	17.2	12.4	8.0	9.5	3.0	5.8	8.0	2.9	81.5	33.7	95.4	723.2	350.0	164.5	189.8	439.9	93.8	21.8	10.0	2.7	8.6	4.9	38.9	20.3	97.7	723.2	
14	1.2	58.3	6.2	4.3	14.7	7.3	9.6	7.0	4.7	8.7	4.2	1.1	1.1	1.2	1.7	3.0	11.6	23.2	20.3	33.8	32.9	20.7	5.8	0.7	11.8	58.3	
15	0.3	0.3	0.4	0.4	0.2	0.2	0.3	0.6	0.3	0.8	1.1	2.4	3.0	4.4	10.8	16.6	11.6	8.5	5.4	4.5	8.5	4.8	0.3	27.0	4.7	27.0	
16	94.0	25.1	3.5	56.2	39.9	121.1	305.5	181.3	204.5	205.7	292.6	323.8	265.7	232.1	286.5	191.5	213.8	202.9	25.9	7.8	7.0	40.6	8.3	23.6	140.0	323.8	
17	67.2	60.6	169.9	166.4	387.0	389.9	891.2	1529.0	533.2	552.0	665.1	559.0	435.8	312.9	517.4	638.8	660.0	1131.6	416.3	181.7	168.6	135.7	329.0	327.6	467.7	1529.0	
18	206.4	144.0	107.4	499.9	485.8	344.5	610.0	1102.8	950.9	1164.5	1425.1	1034.5	368.9	824.7	569.0	540.2	445.6	187.7	123.5	120.5	214.9	322.4	238.7	270.3	512.6	1425.1	
19	103.9	286.7	356.5	329.6	133.2	46.7	70.7	349.6	355.5	1176.9	967.8	851.9	296.1	231.0	136.7	143.5	115.7	101.7	63.6	176.8	377.3	171.1	409.0	220.5	311.3	1176.9	
20	178.1	235.5	114.5	87.1	291.2	184.6	310.5	2902.9	950.6	959.1	1148.0	703.7	457.1	320.0	272.7	219.6	410.4	166.8	8.8	6.9	5.1	4.8	4.9	8.5	414.6	2902.9	
21	12.4	20.0	69.8	51.0	33.1	135.7	240.9	64.2	58.5	84.1	131.8	44.1	13.5	56.7	59.2	217.4	46.5	31.5	42.4	135.9	396.6	158.5	225.8	845.4	132.3	845.4	
22	841.5	231.4	35.4	53.0	29.6	31.7	41.4	64.9	109.0	159.3	402.2	292.5	467.4	356.9	346.9	310.6	88.9	134.4	9.4	10.5	46.9	4.1	10.2	10.0	170.3	841.5	
23	17.8	13.0	32.8	202.5	51.9	12.3	23.2	61.3	110.9	167.8	261.8	16.1	23.2	8.5	4.9	2.8	4.5	2.9	4.1	7.7	2.4	2.6	1.3	1.2	43.2	261.8	
24	4.7	5.6	4.4	5.3	24.7	64.5	54.9	18.4	20.1	45.4	184.9	127.6	92.7	169.5	611.5	485.9	1176.2	1687.0	489.1	1049.8	2196.2	1974.2	898.0	1171.3	523.4	2196.2	
25	1094.5	1007.9	1222.5	690.6	876.7	261.0	109.0	71.8	51.5	48.1	34.6	34.4	35.7	27.8	52.1	74.7	28.9	13.2	10.3	14.7	15.4	18.3	47.3	20.1	244.2	1222.5	
26	27.7	22.8	63.1	91.6	81.1	83.8	49.2	57.4	224.5	90.2	117.3	130.9	210.6	105.4	177.7	191.9	193.7	178.9	79.3	25.1	92.6	79.0	73.0	6.2	102.2	224.5	
27	10.9	12.7	5.7	3.0	3.5	5.4	7.1	9.6	16.4	175.2	461.3	277.2	585.8	487.5	804.0	187.3	561.7	301.7	193.9	36.0	49.1	44.6	26.3	52.0	179.9	804.0	
28	19.8	7.0	16.2	15.0	7.0	1.0	0.7	6.1	9.7	14.6	21.2	24.1	25.7	39.2	37.9	27.6	33.1	35.5	33.4	20.6	21.0	12.1	7.8	22.1	19.1	39.2	
29	4.8	2.8	4.8	5.6	27.6	33.7	24.1	23.9	6.2	12.5	28.6	29.1	65.7	41.9	69.3	77.4	47.1	70.4	47.0	102.4	49.0	73.7	55.0	48.6	39.6	102.4	
30	53.4	82.0	82.0	68.3	43.1	44.9	35.9	161.5	287.5	257.0	261.1	304.9	327.4	225.6	496.3	295.0	335.6	166.4	114.0	33.3	51.6	185.6	175.7	119.1	175.3	496.3	
NO.	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	514	71%	
MEAN	167.6	142.2	187.4	168.2	150.3	115.4	166.2	378.3	263.9	322.8	384.4	346.6	233.7	214.2	263.2	212.1	224.2	225.7	126.7	100.3	204.8	159.7	142.6	167.9			
MAX	1094.5	1007.9	1222.5	979.3	876.7	536.8	891.2	2902.9	950.9	1176.9	1425.1	1034.5	585.8	824.7	804.0	638.8	1176.2	1687.0	816.7	1049.8	2196.2	1974.2	898.0	1171.3			



Number of 24HR Exceedences	15	Proposed Guideline
Number of Non-Zero Readings	514	
Maximum 1-HR Average	2902.9 UG/M3	
Maximum 24-HR Average	523.4 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	324.1	Operational Uptime
		Monthly Average
		514 HRS
		71.4 %
		210.6 UG/M3