



SWAN HILLS TREATMENT CENTRE

METEOROLOGY ANNUAL REPORT FOR 2025

APPROVAL No.: 00001744

PREPARED BY:

VEOLIA WASTE SERVICES ALBERTA INC.

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1. INTRODUCTION

The meteorological monitoring program was established during the Swan Hills Treatment Centre (SHTC) construction phase and continues to date. Background air quality monitoring was conducted to establish conditions in the existing airshed and determine meteorological patterns in the area. Continuing monitoring through start-up and operation allowed for assessment of potential air quality impacts. Based on an assessment of air quality information collected until 1995, the continuous air quality portion of the Monitoring Program was terminated at the end of 1995. Meteorological data in support has been collected thereafter.

The location of the monitoring site was chosen based on dispersion modeling results outlined in Chapter 3, Appendix A of the Alberta Air Monitoring Directive (2016). The present site was established in July 1993 based on dispersion patterns from expanded SHTC facilities. Refer to the Annual Air Monitoring Report for 2025 results. Figure 1-1 for a site plan of the SHTC that shows the location of the air monitoring station and locations of the fugitive emissions monitoring.

The meteorological monitoring site is located on the SHTC property approximately 850 m southeast of the FBD Incinerator stack outside the fenced process area. The area of this clearing is approximately 0.25 ha. Trees up to 15 m high grow within 35 m of the tower on the north and south sides. Lands to the east decrease in elevation into a valley.

The station consists of various monitors, associated analyzers and data storage attached to a 30 m freestanding tower located 10 m east of the shelter. Monitoring is conducted according to Alberta Environment guidelines as detailed in the Air Monitoring Directive.

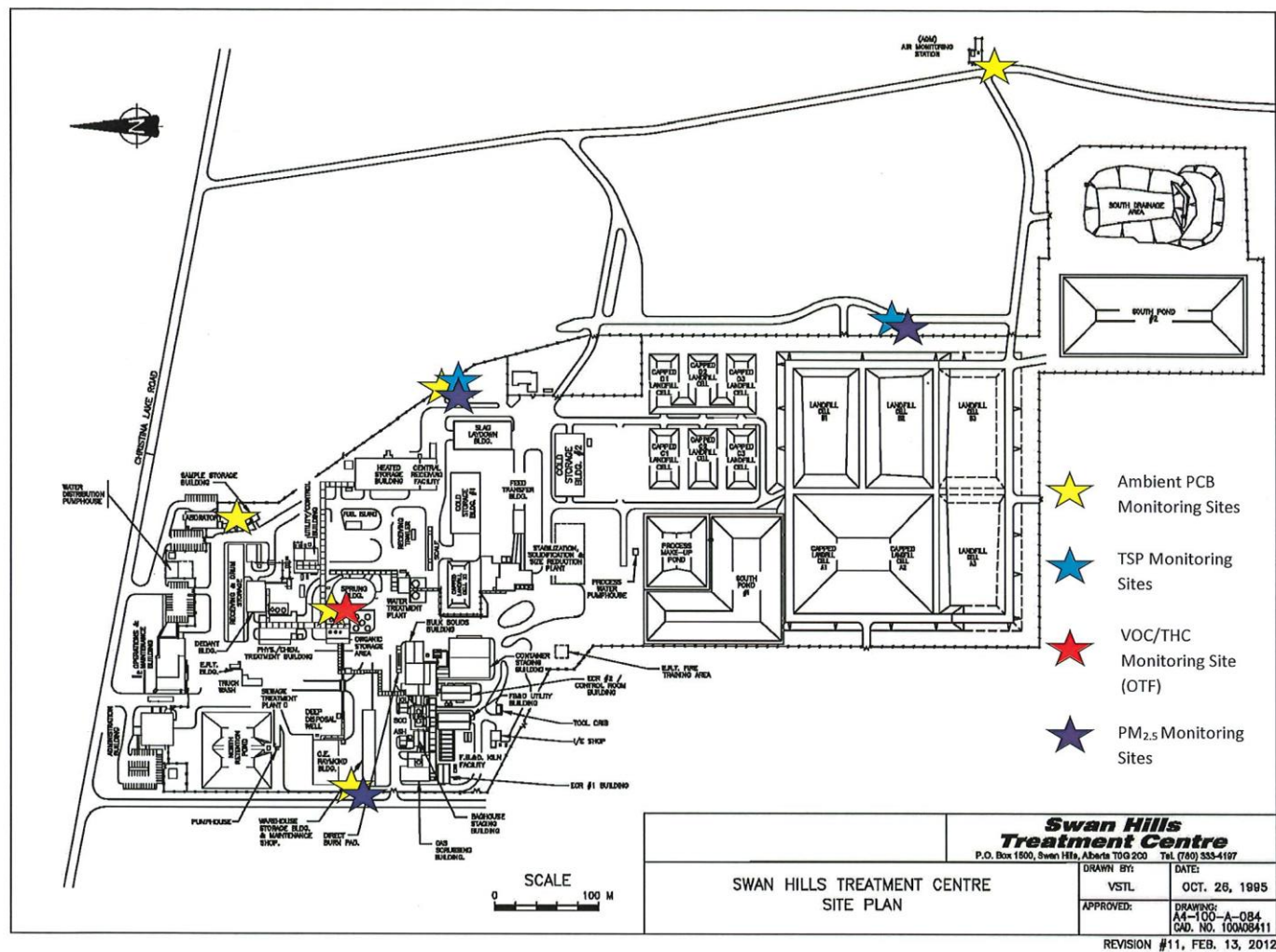


Figure 1-1: Site Diagram

2. METHODOLOGY

Instrumentation to measure horizontal wind speed and direction at 10 and 30 m is mounted on a 30 m tower. Temperature is measured at 2 and 10 m. Relative humidity is measured at 2 m and vertical wind velocity is measured at 30 m. All instrumentation was replaced in April 2017 and is serviced by Bureau Veritas Canada.

An ICIS (Integrated Control and Instrumentation System) data acquisition system controls the data recording. Each channel is scanned every 4 seconds (the duration of an "Instantaneous" value). Data is reported as missing if <90% of responses are present within an hour interval. Measurement channels include some or all of the following for each instrument:

- 1-hr, 5-min and 1-min averages;
- Instantaneous minimum within the hour;
- Instantaneous maximum within the hour;
- Standard deviation within the hour.

3. SUMMARY OF METEOROLOGICAL PARAMETERS

3.1. Ambient Temperature

The overall ambient temperature remained within the historical range in 2025. The average monthly temperature recorded at the AQM Station ranged between -15.8°C and 15.6°C at 2m, and -15.5°C and 16.2°C at 10m. The one-hour maximum, average and minimum temperatures recorded in 2025 at the AQM Station were 29.7°C , 2.6°C and -32.9°C at 2m, and 28.5°C , 2.9°C , and -31.2°C at 10m respectively. Refer to Section 4 for ambient temperature data. Data are missing from 23:00 PM of May 27th until 13:00 PM of Jun 4th because of Power outage.

3.2. Wind Speed/Direction

The predominant wind direction in 2025 was from the North and West North West at both 10m and 30m, which is typical for the Swan Hills region. Average wind speeds at the 10 m and 30 m levels were 12.9 km/hr and 18.0 km/hr respectively, which are similar to observations from previous years. Refer to Section 5 for wind speed/direction data and Section 6 for windroses. (Note that tables 5-1 & 5-2 displayed temperature at 2m in the monthly Avg (Deg) column in the reports prepared prior to 2021. This has been corrected to display the hourly average wind speed direction in degrees at 10m and 30m. This did not affect the data presented in the windroses.). Data are missing from 23:00 PM of May 27th until 13:00 PM of Jun 4th because of Power outage.

3.3. Precipitation

The total annual precipitation in 2025 was 526.6 mm, which was less than 2024. Refer to Section 7 for 2025 precipitation data. Data are missing from 23:00 PM of May 27th until 13:00 PM of Jun 4th because of Power outage.

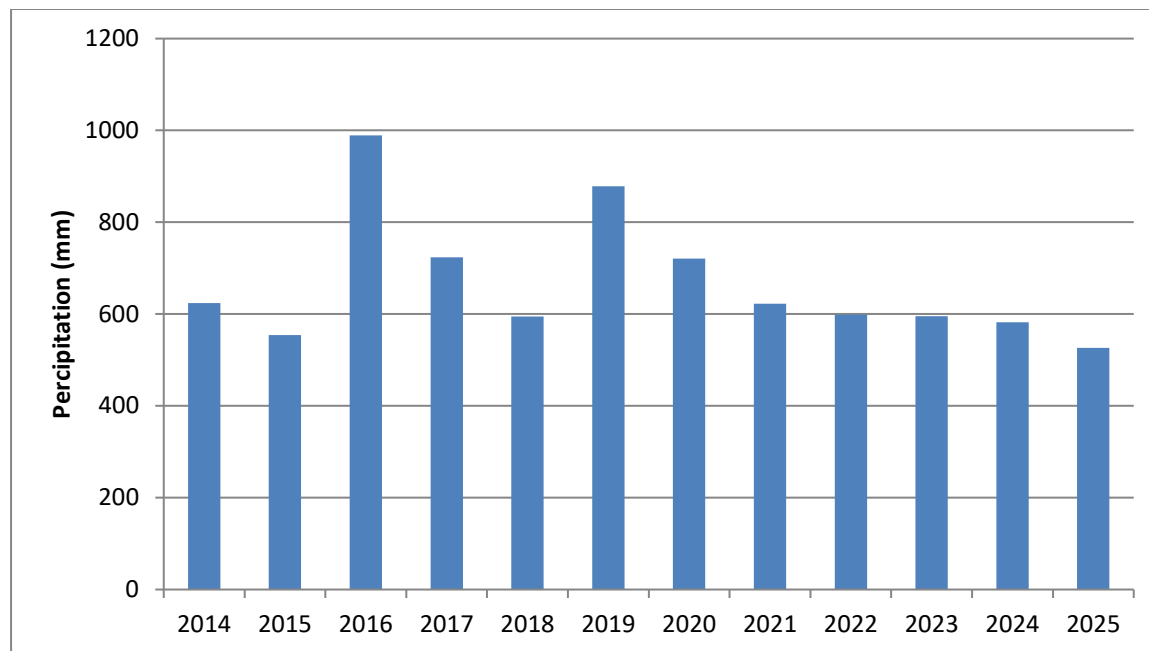


Figure 3-1: Total Annual Precipitation

3.4. Barometric Pressure

The overall barometric pressure remained within the historical range in 2025. The average monthly barometric pressure recorded at the AQM Station ranged between 664 mmHg and 671 mmHg. The one-hour maximum, average and minimum barometric pressure recorded in 2025 at the AQM Station were 683 mmHg, 668 mmHg and 648 mmHg, respectively. Refer to Section 8 for barometric pressure data. Data are missing from 23:00 PM of May 27th until 13:00 PM of Jun 4th because of Power outage.

3.5. Relative Humidity

The overall relative humidity remained within the historical range in 2025. The average monthly relative humidity recorded at the AQM Station ranged between 48.7 % and 79.0 %. The one-hour maximum, average and minimum relative humidity recorded in 2025 at the AQM Station were 99.0 %, 64.7 % and 10.0 %, respectively. Refer to Section 9 for relative humidity data. Data are missing from 23:00 PM of May 27th until 13:00 PM of Jun 4th because of Power outage.

4. AMBIENT TEMPERATURE

4.1. Data Summary

In 2025 ambient temperatures were monitored at the AQM station serviced by Bureau Veritas Canada at a height of 2m and 10m.

Data is summarized in tables' 4-1 and 4-2, and Figures 4-1 to 4-4.

Table 4-1: Ambient Temperature Summary at the SHTC (2m)

Month	Hourly		Daily		Monthly Average (°C)	Cumulative Frequency Distribution (%)							
	Min (°C)	Max (°C)	Min (°C)	Max (°C)		< -30 °C	-31 to -20°C	-21 to -10°C	-9 to 0 °C	1 to 10°C	11 to 20°C	21 to 30°C	> 30 °C
January	-26.8	9.5	-21.7	5.6	-6.8	0.00	7.93	26.75	45.70	19.62	0.00	0.00	0.00
February	-32.9	9.0	-28.9	5.1	-14.2	2.83	36.61	29.46	5.36	26.19	0.00	0.00	0.00
March	-19.0	10.4	-15.7	5.9	-3.8	0.00	0.00	25.00	49.87	25.13	0.00	0.00	0.00
April	-12.6	18.4	-6.4	10.0	3.9	0.00	0.00	2.08	28.06	59.72	10.14	0.00	0.00
May	-0.3	25.3	5.4	17.2	10.4	0.00	0.00	0.00	1.24	55.33	39.88	3.55	0.00
June	1.1	26.0	6.7	17.2	12.4	0.00	0.00	0.00	0.00	40.22	55.84	3.94	0.00
July	0.0	0.0	9.4	21.7	14.6	0.00	0.00	0.00	0.00	26.34	62.63	11.02	0.00
August	3.0	29.7	6.9	21.5	15.6	0.00	0.00	0.00	0.00	22.45	59.41	18.15	0.00
September	2.2	25.1	6.3	18.5	13.2	0.00	0.00	0.00	0.00	36.11	53.89	10.00	0.00
October	-8.1	20.6	-4.7	12.9	4.1	0.00	0.00	0.00	31.32	59.01	9.68	0.00	0.00
November	-17.9	12.2	-13.7	6.0	-2.6	0.00	0.00	11.94	64.03	23.61	0.42	0.00	0.00
December	-32.8	4.9	-27.5	3.3	-15.8	0.54	43.95	30.51	17.74	7.26	0.00	0.00	0.00
Annual	-32.9	29.7	-28.9	21.7	2.6								

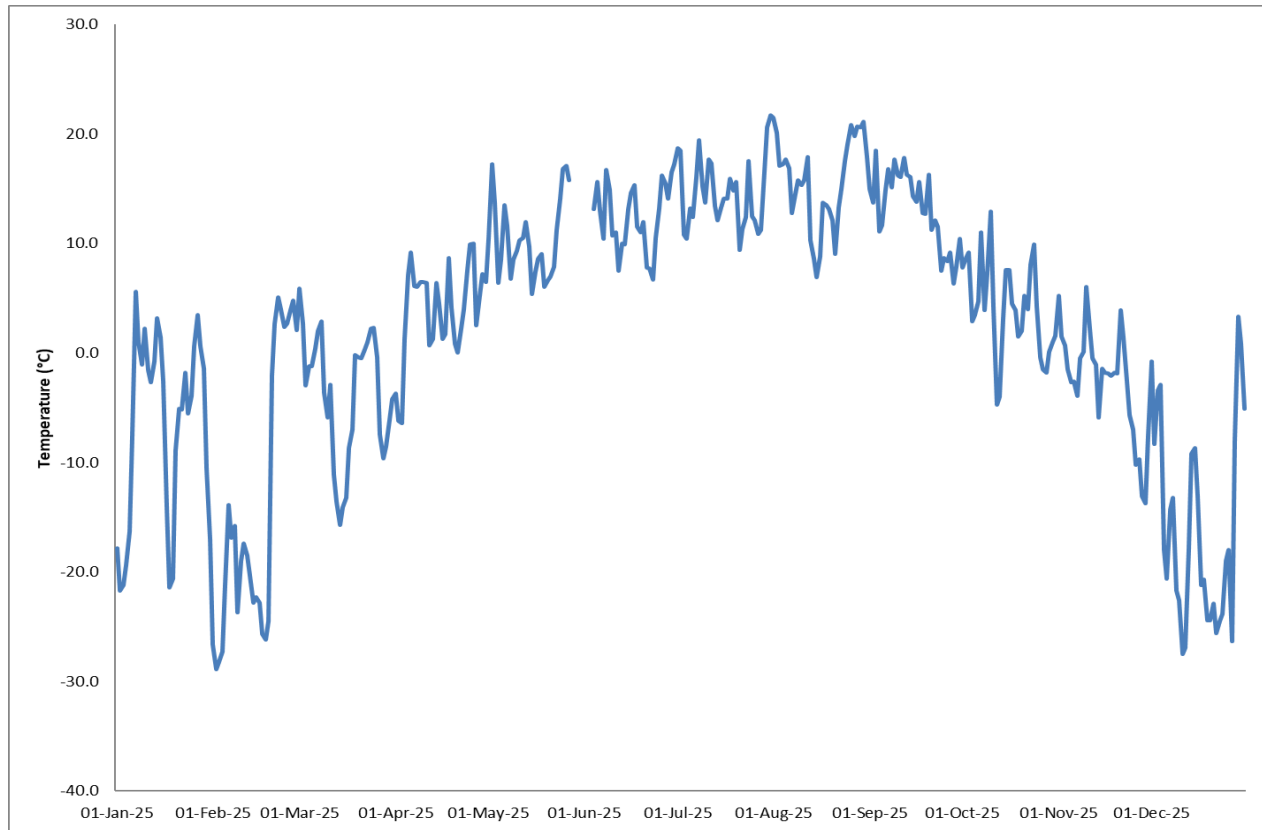


Figure 4-1: Average Daily Ambient Temperature (2m)

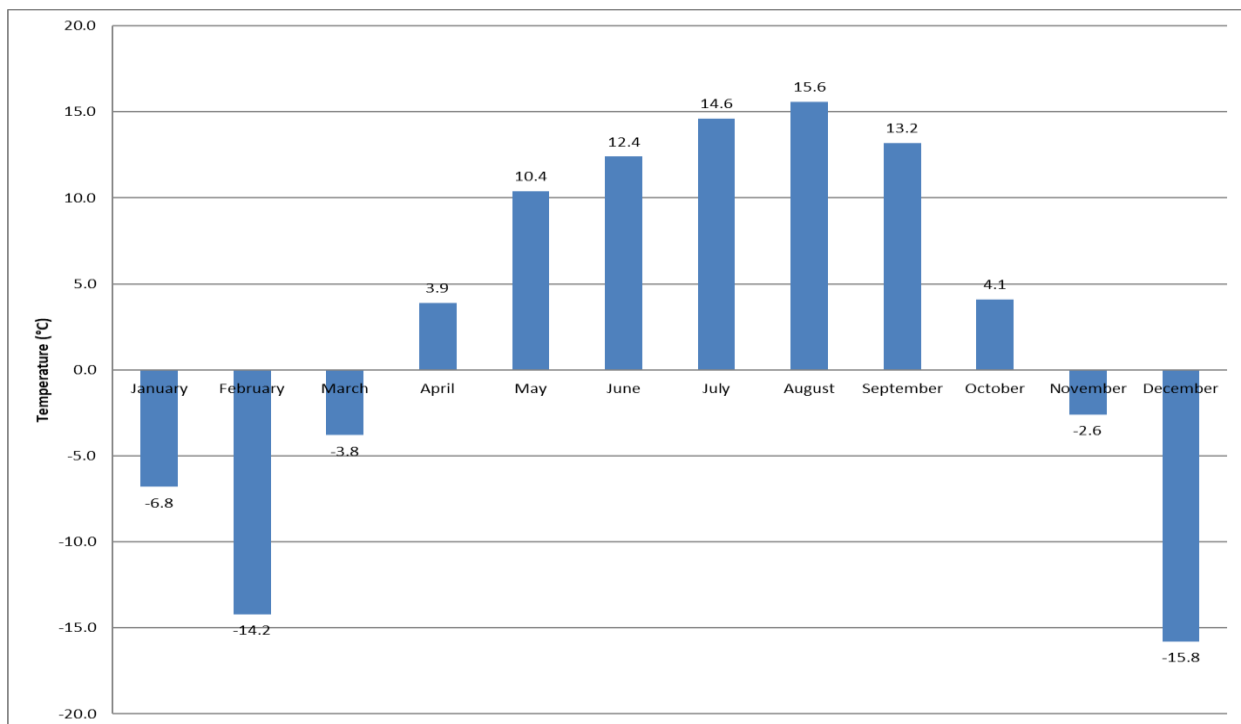


Figure 4-2: Average Monthly Temperature (2m)

Table 4-2: Ambient Temperature Summary at the SHTC (10m)

Month	Hourly		Daily		Monthly	Cumulative Frequency Distribution (%)							
	Min (°C)	Max (°C)	Min (°C)	Max (°C)	Average (°C)	< -30 °C	-31 to -20°C	-21 to -10°C	-9 to 0 °C	1 to 10°C	11 to 20°C	21 to 30°C	> 30 °C
January	-24.3	10.1	-21.4	6.3	-6.5	0.00	6.32	28.36	44.35	20.97	0.00	0.00	0.00
February	-31.2	9.8	-28.8	5.7	-13.6	0.30	36.61	31.25	3.42	28.42	0.00	0.00	0.00
March	-18.9	10.8	-15.9	6.3	-3.6	0.00	0.00	24.60	49.46	25.94	0.00	0.00	0.00
April	-10.8	17.5	-6.0	11.8	4.2	0.00	0.00	1.39	26.67	61.94	10.00	0.00	0.00
May	0.9	24.5	5.0	17.8	10.5	0.00	0.00	0.00	0.31	55.80	40.80	3.09	0.00
June	3.4	25.2	6.8	17.4	12.5	0.00	0.00	0.00	0.00	39.75	58.04	2.21	0.00
July	2.4	28.0	9.3	21.7	14.8	0.00	0.00	0.00	0.00	21.10	68.68	10.22	0.00
August	4.4	28.5	7.0	23.2	16.2	0.00	0.00	0.00	0.00	18.55	62.77	18.68	0.00
September	3.3	24.5	6.8	18.9	13.9	0.00	0.00	0.00	0.00	29.31	61.53	9.17	0.00
October	-7.1	20.2	-4.8	14.5	4.5	0.00	0.00	0.00	27.42	62.50	10.08	0.00	0.00
November	-16.3	12.7	-12.8	6.3	-2.1	0.00	0.00	9.31	63.89	26.25	0.56	0.00	0.00
December	-30.1	5.5	-27.3	3.6	-15.5	0.00	44.09	30.91	16.80	8.20	0.00	0.00	0.00
Annual	-31.2	28.5	-28.8	23.2	2.9								

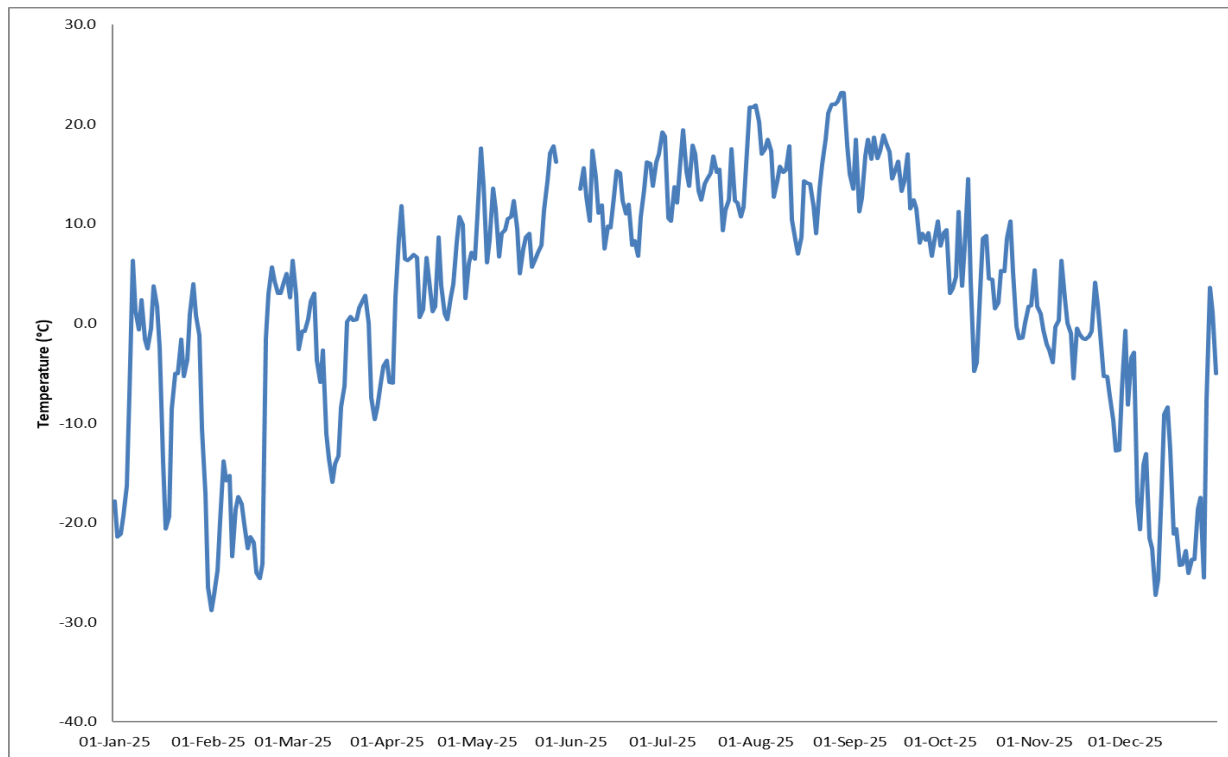


Figure 4-3: Average Daily Ambient Temperature (10m)

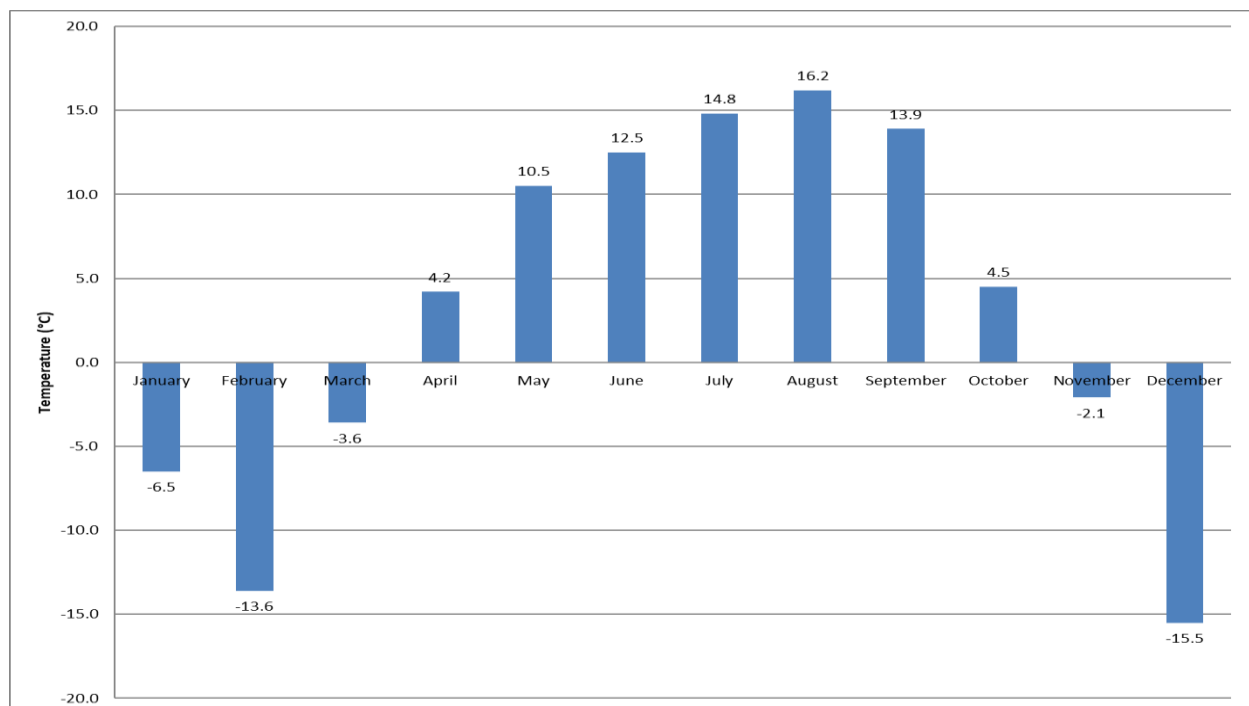


Figure 4-4: Average Monthly Temperature (10m)

5. WIND SPEED AND DIRECTION

In 2025 wind speed and direction were monitored at the AQM station serviced by Bureau Veritas Canada at a height of 10m and 30m.

Data is summarized in tables 5-1 and 5-2. Windroses are in Section 6.

Table 5-1: Wind Speed Summary at the SHTC (10m)

Month	Monthly	Hourly		Daily		Monthly	Cumulative Frequency Distribution (%)						
	Average (Deg)	Min	Max (kph)	Min (kph)	Max (kph)	Average (kph)	0 K ph	1 - 5 Kph	6 - 11 Kph	12 - 19 Kph	20 - 28 Kph	29 - 38 Kph	>39 Kph
January	257	0.0	59.4	2.0	36.4	19.6	2.0	19.4	14.7	18.3	17.1	20.8	7.8
February	246	0.3	48.0	3.0	30.3	15.1	0.7	24.4	22.8	20.8	17.4	10.4	3.4
March	224	0.3	39.0	3.6	24.0	11.5	1.2	27.4	35.1	20.7	10.9	4.6	0.1
April	252	0.0	47.1	3.3	30.4	15.2	1.5	16.9	23.3	29.3	19.7	8.3	0.8
May	222	0.3	32.1	4.8	24.7	10.4	0.3	27.5	38.8	22.7	9.7	0.9	0.0
June	238	0.3	46.8	3.4	27.9	11.4	0.9	36.1	23.5	23.3	11.0	4.4	0.6
July	235	0.5	38.3	3.7	24.3	10.7	0.9	34.3	29.2	21.0	12.6	2.0	0.0
August	249	0.8	31.0	4.3	21.8	10.0	0.4	38.6	28.4	22.0	10.2	0.4	0.0
September	235	0.5	36.2	3.6	21.9	10.0	1.1	36.9	31.8	17.8	9.3	3.1	0.0
October	251	0.5	38.2	6.1	30.1	14.2	0.4	15.8	33.4	25.8	17.2	7.4	0.0
November	235	0.3	42.3	3.6	29.0	13.7	0.8	26.1	25.4	20.0	18.3	8.6	0.7
December	217	0.6	50.7	3.0	36.9	13.2	0.7	40.5	21.1	12.9	9.4	11.2	4.3
Annual		0	59.4	2.0	36.9	12.9							

Table 5-2: Wind Speed Summary at the SHTC (30m)

Month	Monthly	Hourly		Daily		Monthly	Cumulative Frequency Distribution (%)						
	Average (Deg)	Min	Max (kph)	Min (kph)	Max (kph)	Average (kph)	0 K ph	1 - 5 Kph	6 - 11 Kph	12 - 19 Kph	20 - 28 Kph	29 - 38 Kph	>39 Kph
January	258	0.0	68.0	3.4	42.8	24.0	1.3	7.8	16.7	18.7	17.6	19.9	18.0
February	248	0.8	56.0	6.0	35.7	19.3	0.1	8.6	21.9	29.6	19.9	12.2	7.6
March	225	0.9	45.3	6.8	28.7	15.8	0.1	8.6	28.1	40.3	13.7	7.4	1.7
April	254	2.3	54.0	8.3	35.9	19.6	0.0	4.2	18.6	33.9	26.4	13.6	3.3
May	220	2.7	37.8	9.6	29.3	15.8	0.0	2.6	28.4	44.0	20.7	4.2	0.0
June	227	1.1	55.8	7.0	34.3	16.6	0.0	9.6	25.7	35.6	18.3	7.6	3.2
July	231	1.3	49.5	8.1	31.7	16.6	0.0	7.4	26.6	35.6	20.6	8.7	1.1
August	243	1.1	38.7	9.9	28.9	15.4	0.0	8.6	29.8	36.0	19.4	6.2	0.0
September	225	0.6	47.4	6.6	29.7	15.9	0.3	7.2	31.1	36.1	15.7	7.4	2.2
October	251	1.4	49.7	8.5	37.8	19.9	0.0	3.6	17.6	37.2	21.8	14.6	5.3
November	244	0.2	52.2	5.7	36.4	19.3	0.3	10.4	19.3	27.6	20.6	15.0	6.8
December	226	1.0	58.9	5.5	43.9	17.6	0.0	17.1	30.4	20.7	9.1	12.4	10.3
Annual		0	68.0	3.4	43.9	18.0							

6. WINDROSES

6.1. Monthly Windroses (10m)

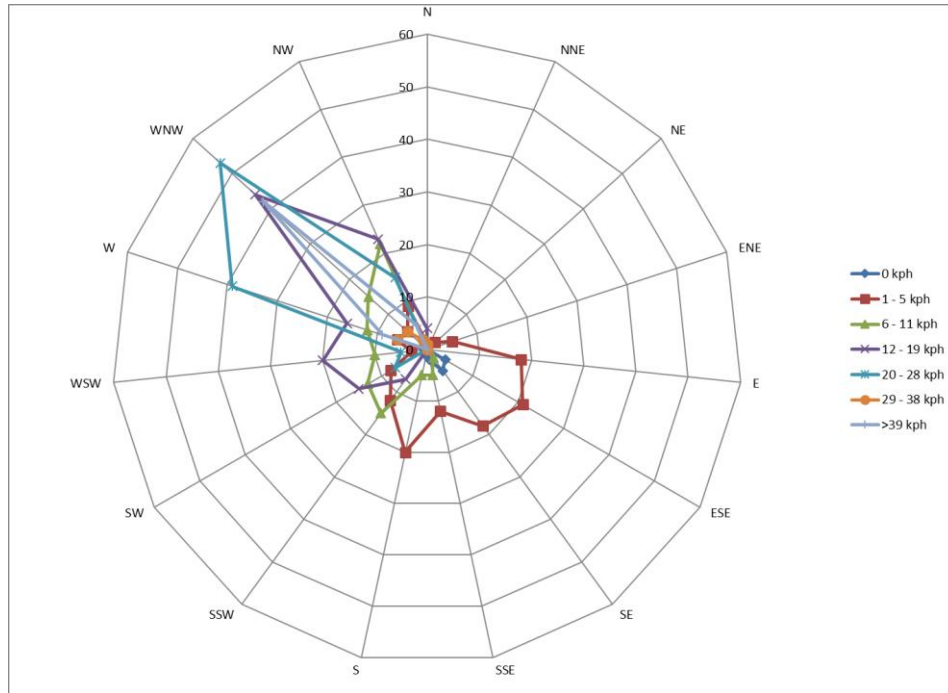


Figure 6-1: January Windrose (1 hour Average, 10m)

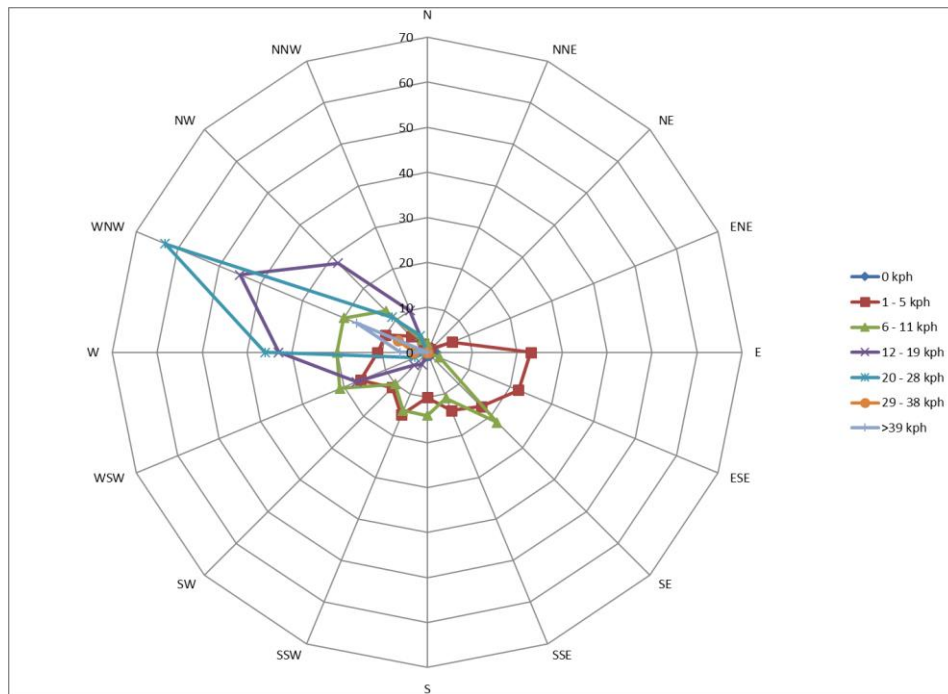


Figure 6-2: February Windrose (1 hour Average, 10m)

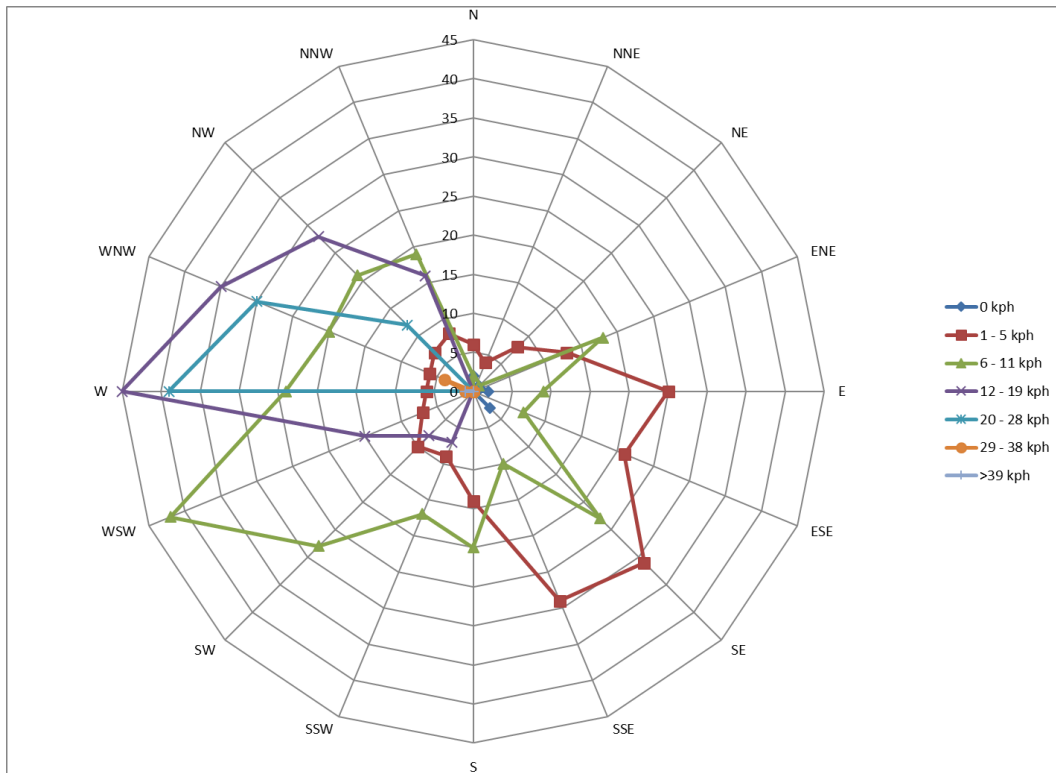


Figure 6-3: March Windrose (1 hour Average, 10m)

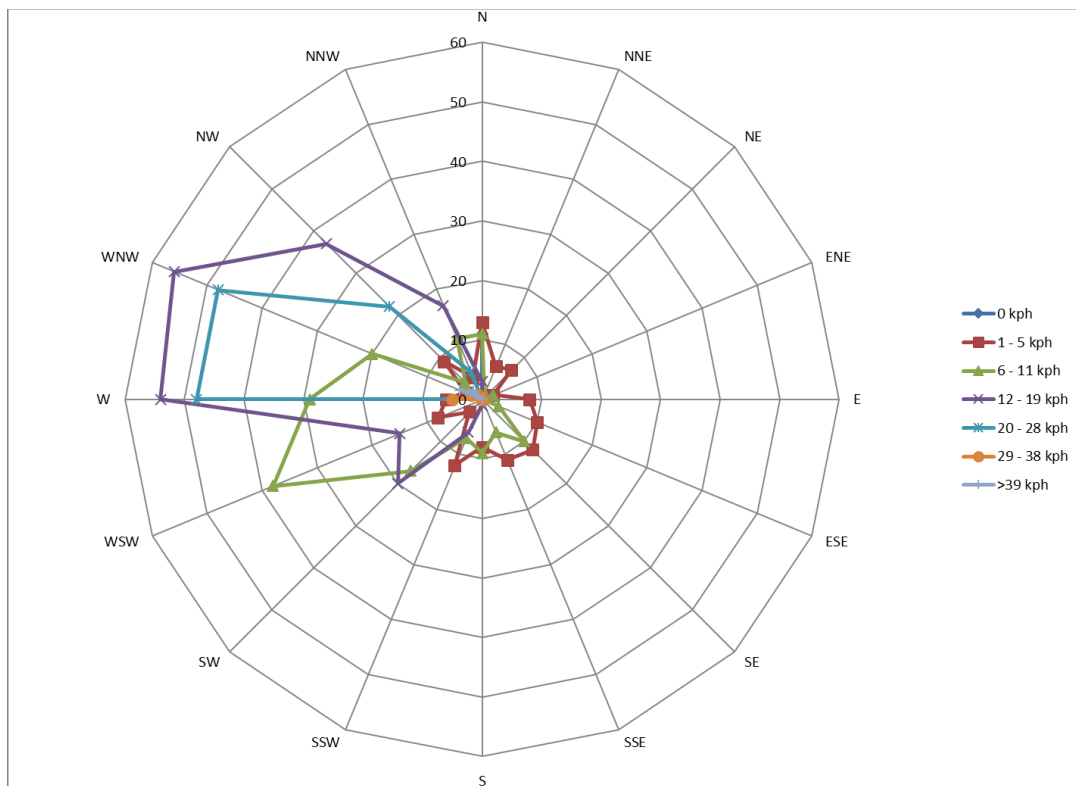


Figure 6-4: April Windrose (1 hour Average, 10 m)

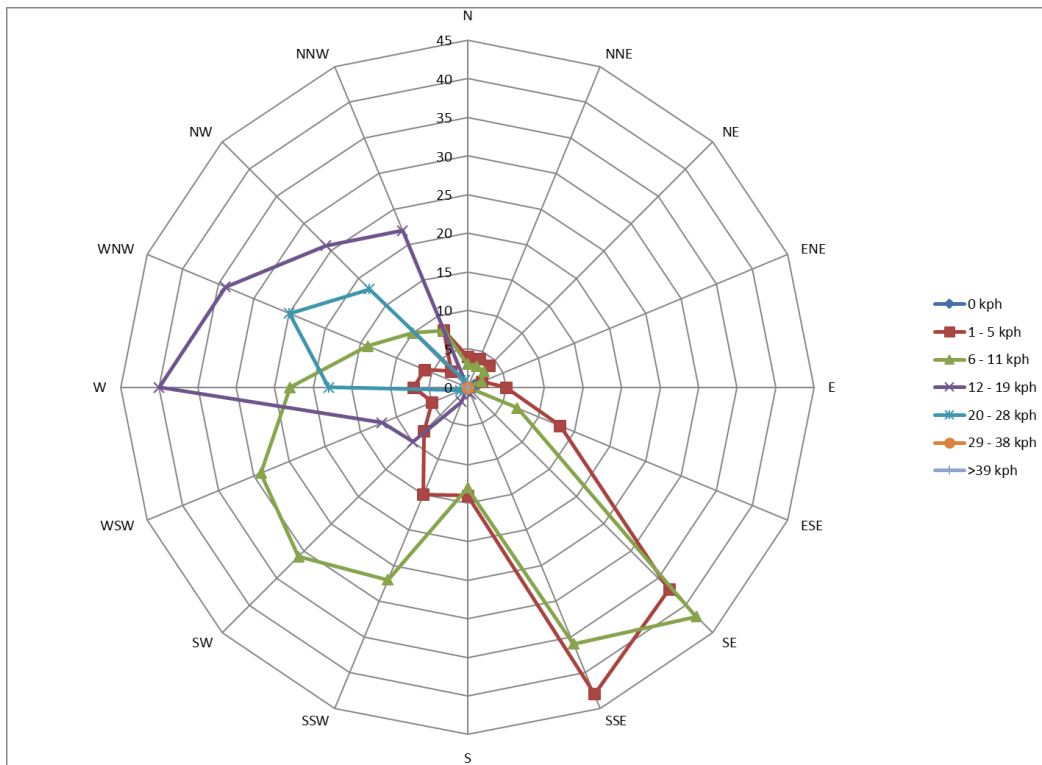


Figure 6-5: May Windrose (1 hour Average)

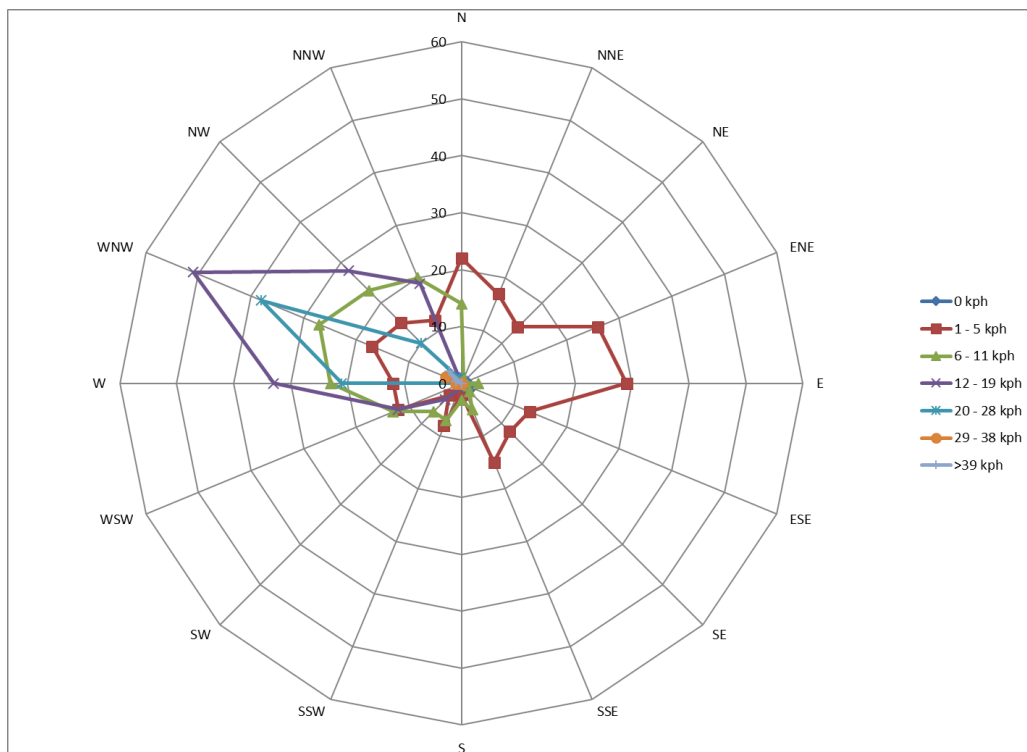


Figure 6-6: June Windrose (1 hour Average, 10m)

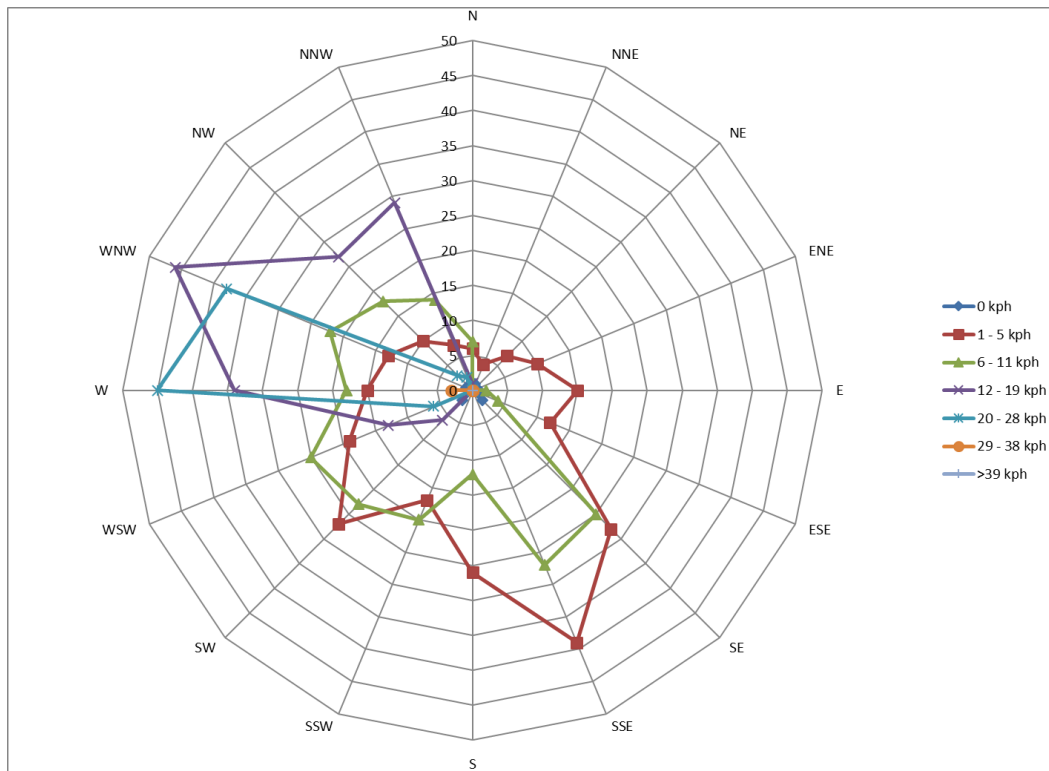


Figure 6-7: July Windrose (1 hour Average, 10m)

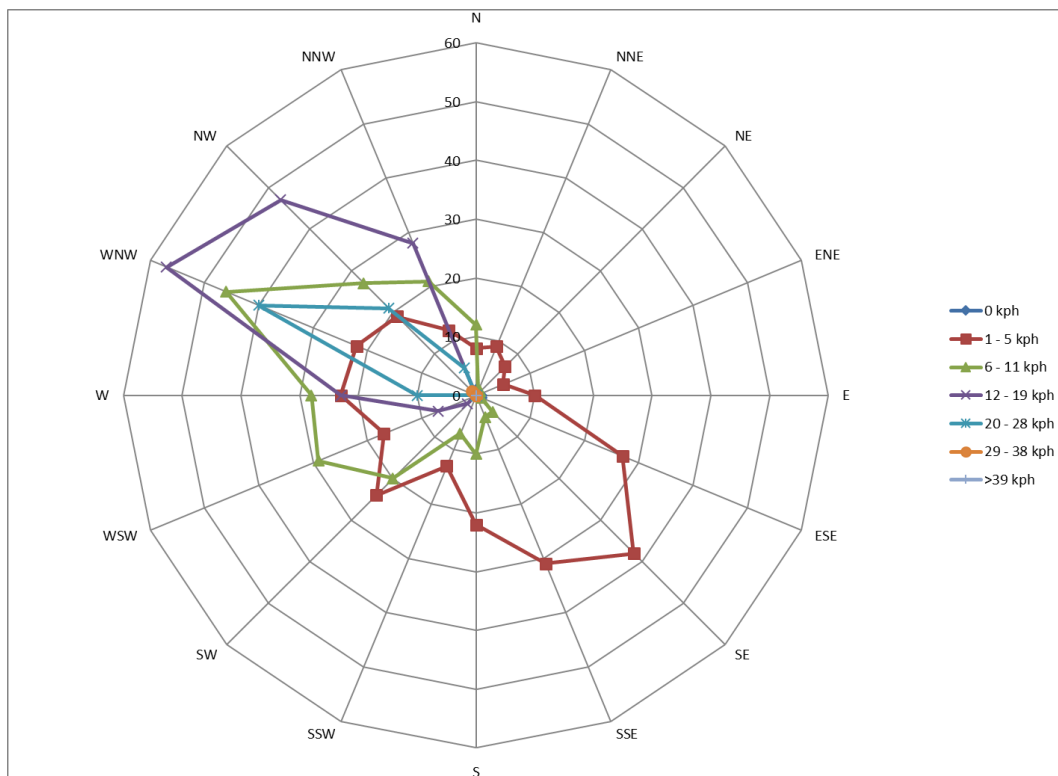


Figure 6-8: August Windrose (1 hour Average, 10m)

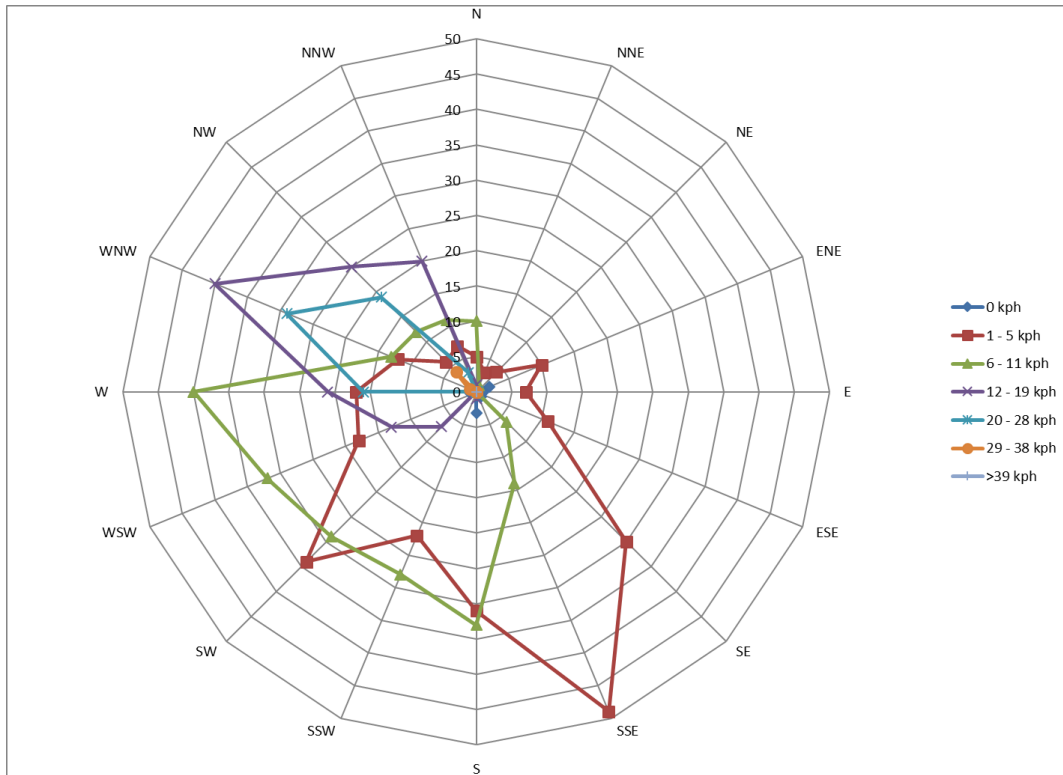


Figure 6-9: September Windrose (1 hour Average, 10m)

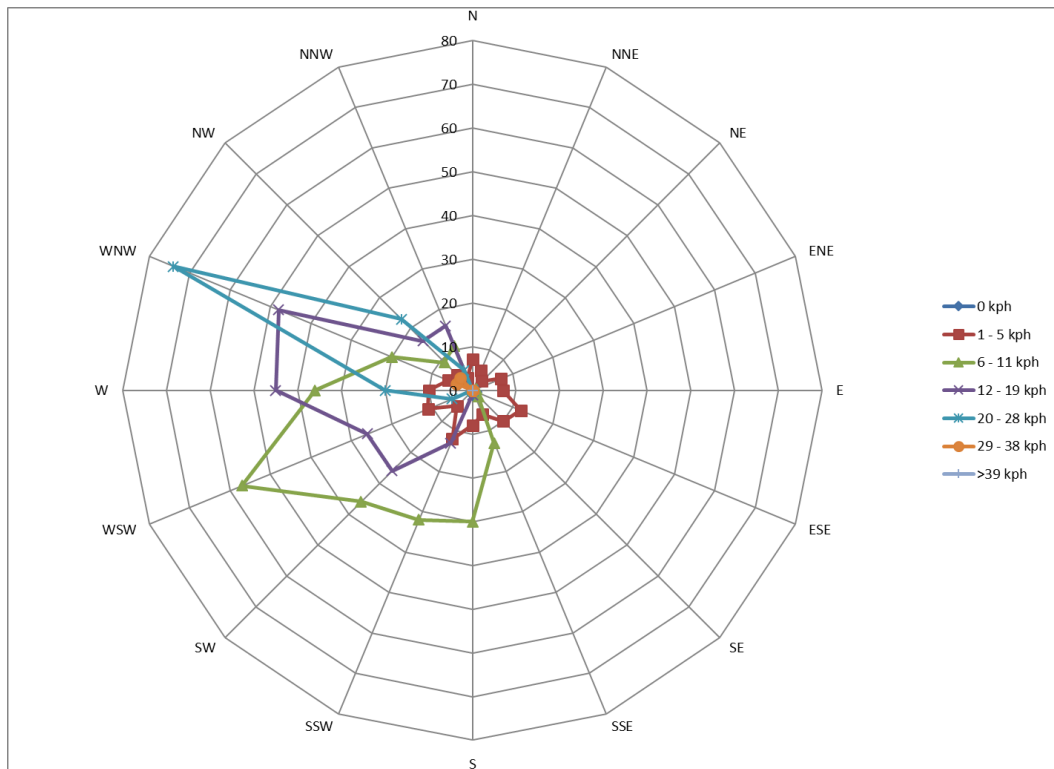


Figure 6-10: October Windrose (1 hour Average, 10m)

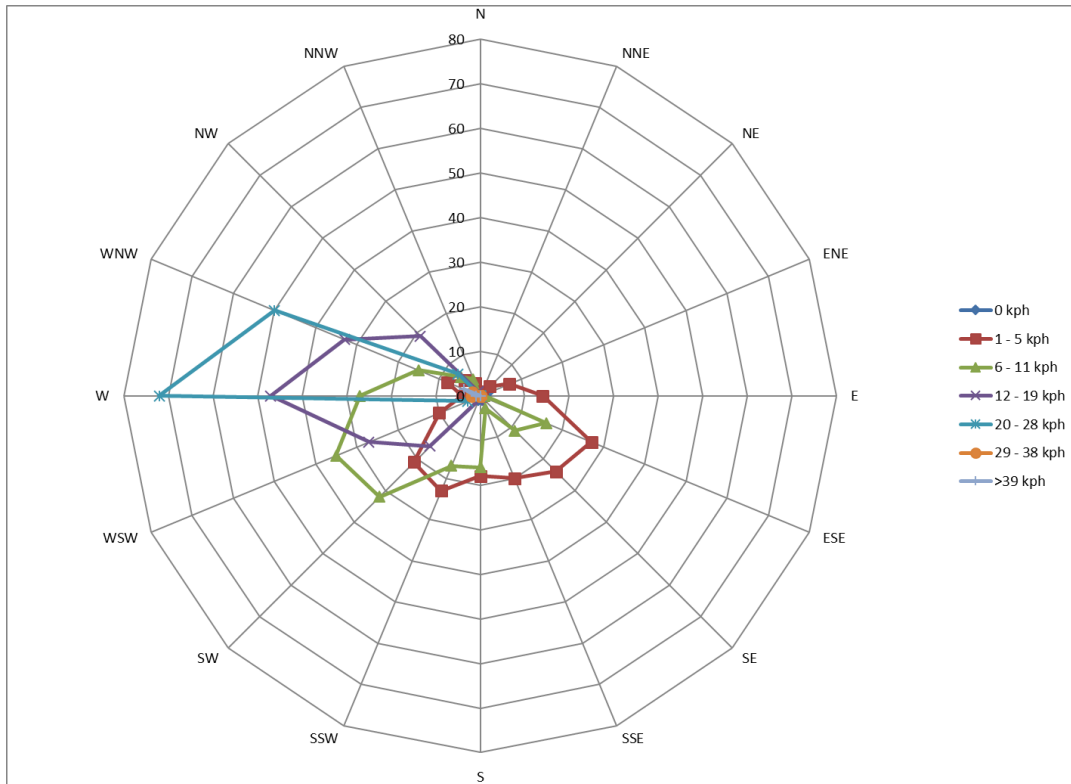


Figure 6-11: November Windrose (1 hour Average, 10m)

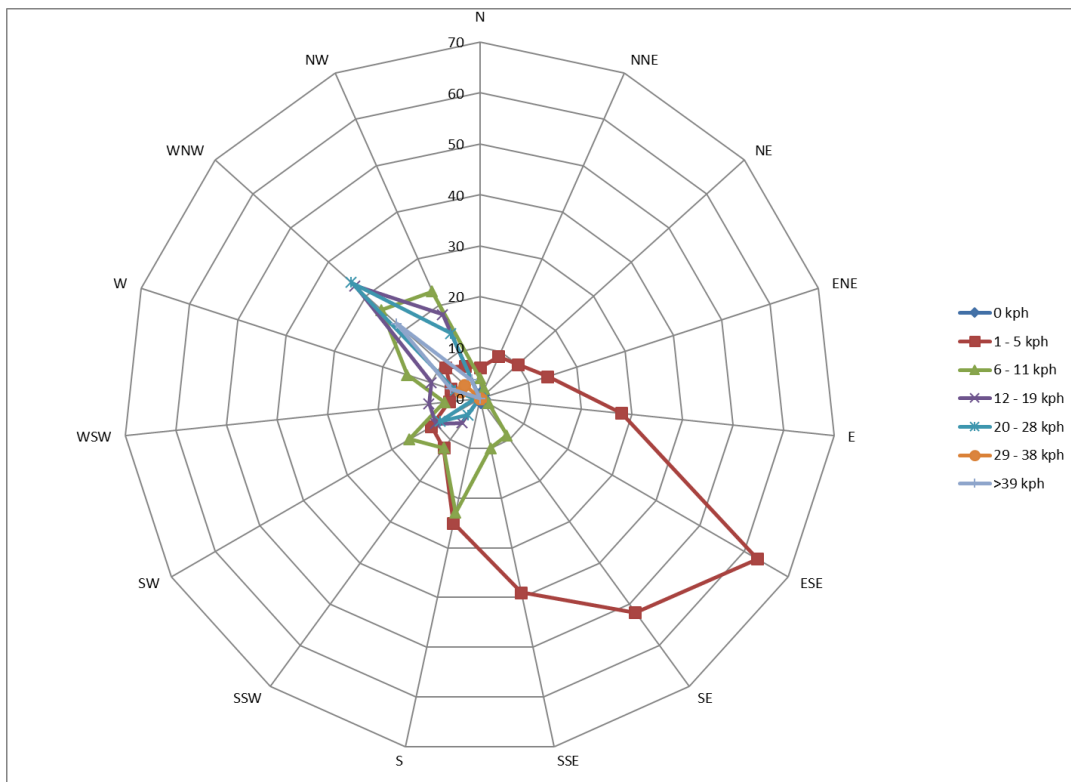


Figure 6-12: December Windrose (1 hour Average, 10m)

6.2. Monthly Windroses (30m)

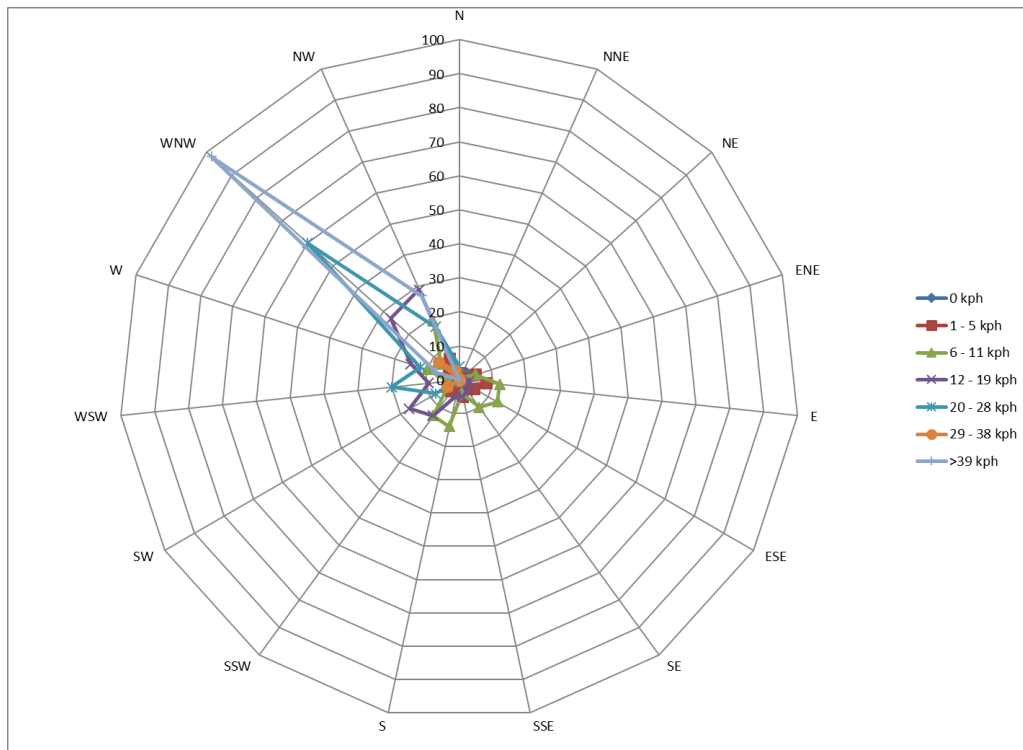


Figure 6-13: January Windrose (1 hour Average, 30m)

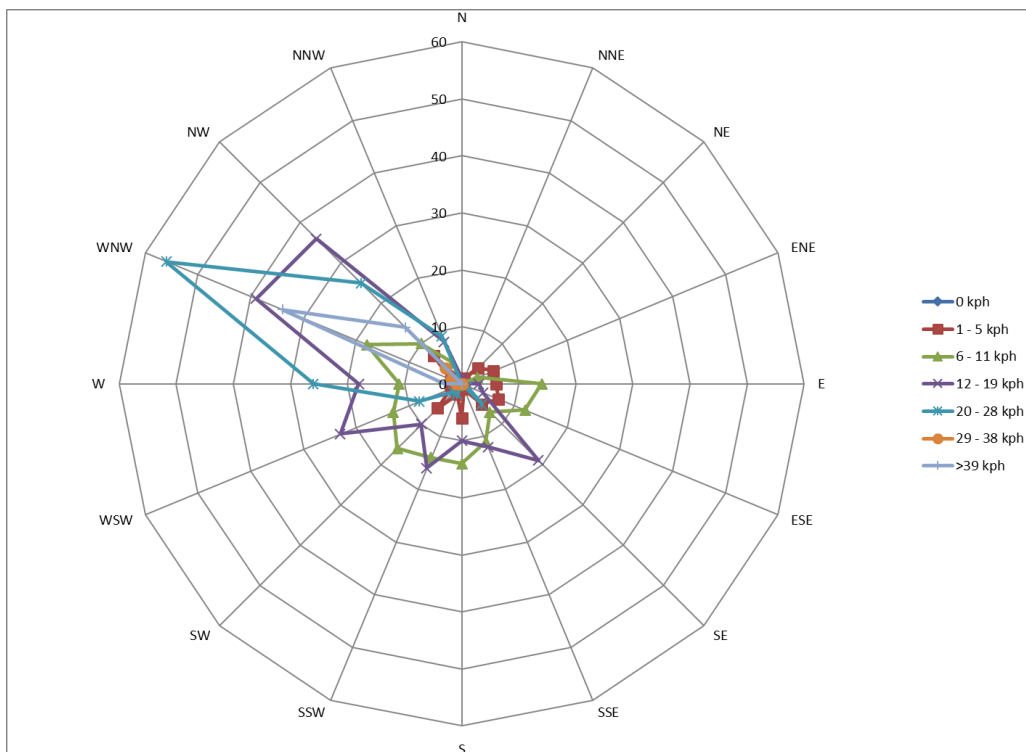


Figure 6-14: February Windrose (1 hour Average, 30m)

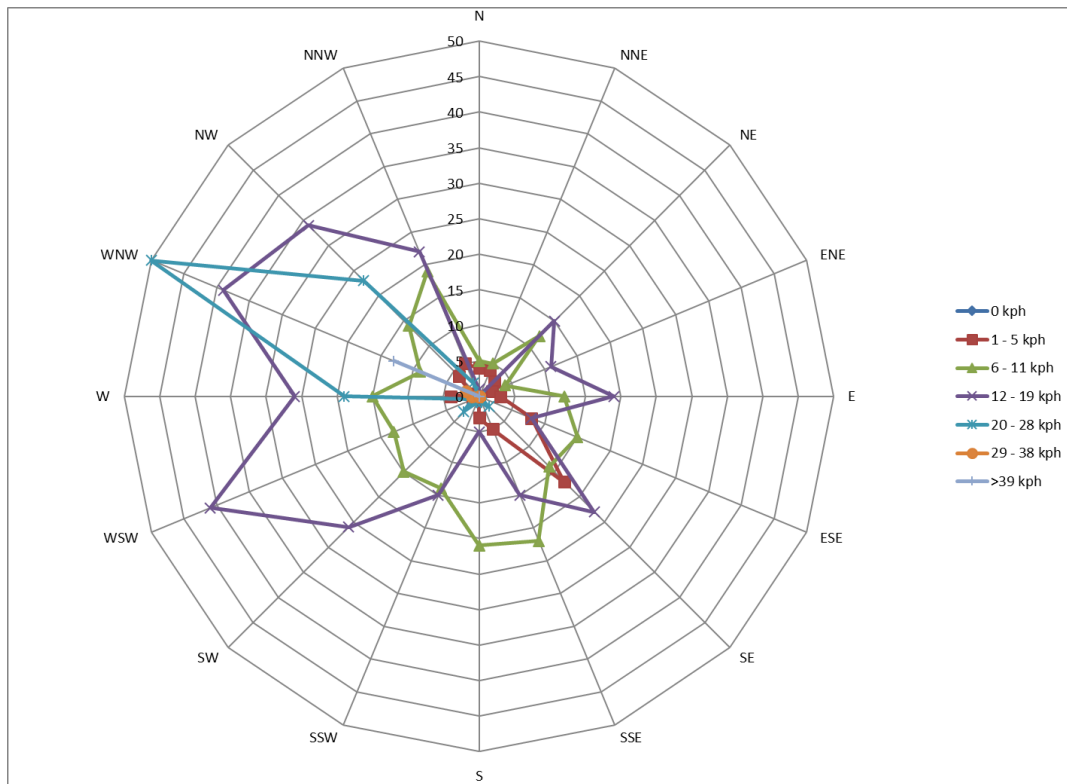


Figure 6-15: March Windrose (1 hour Average, 30m)

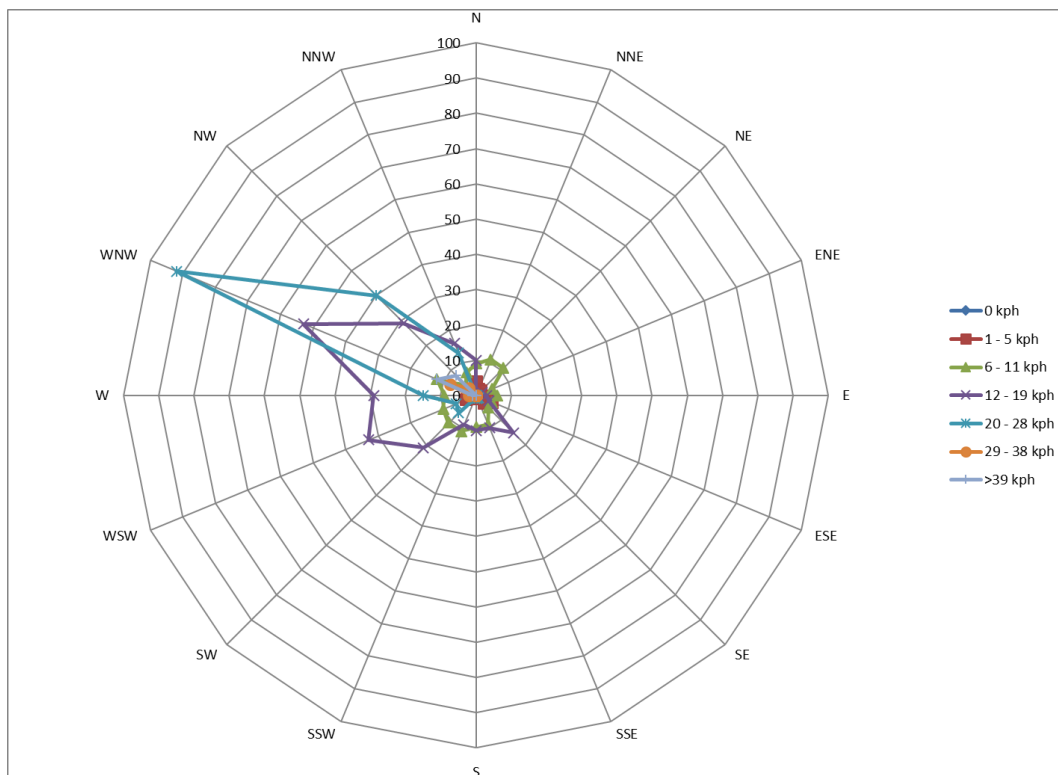


Figure 6-16: April Windrose (1 hour Average, 30m)

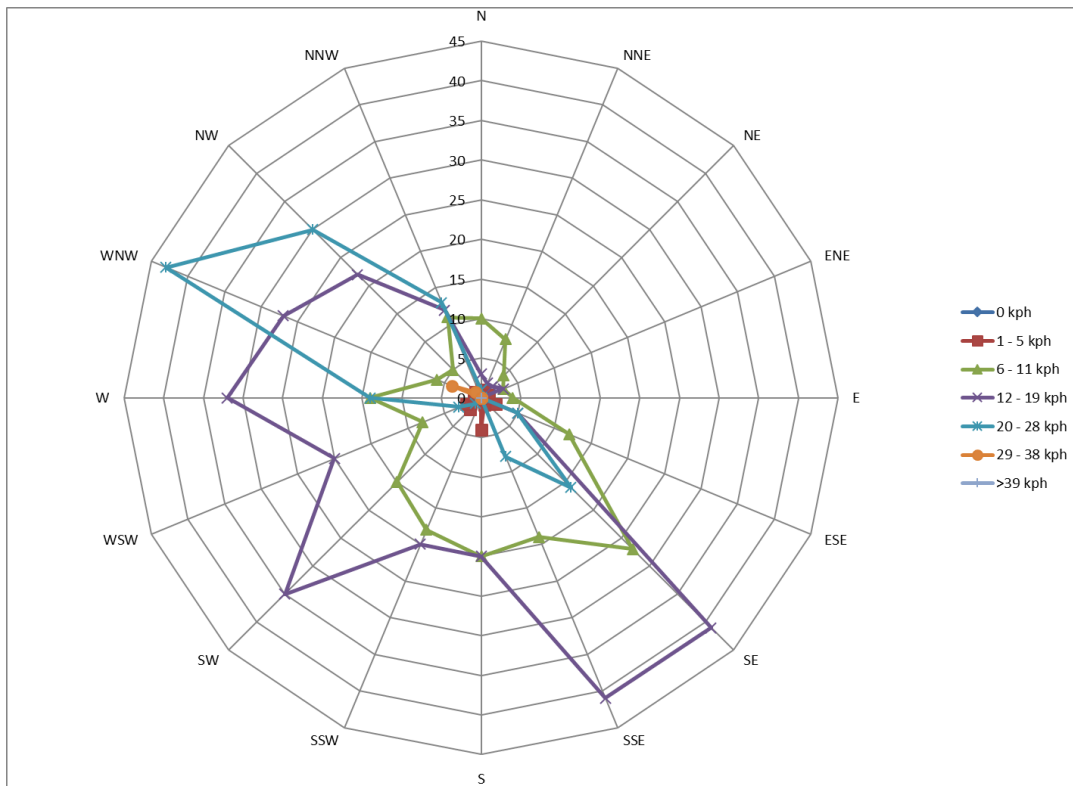


Figure 6-17: May Windrose (1 hour Average, 30m)

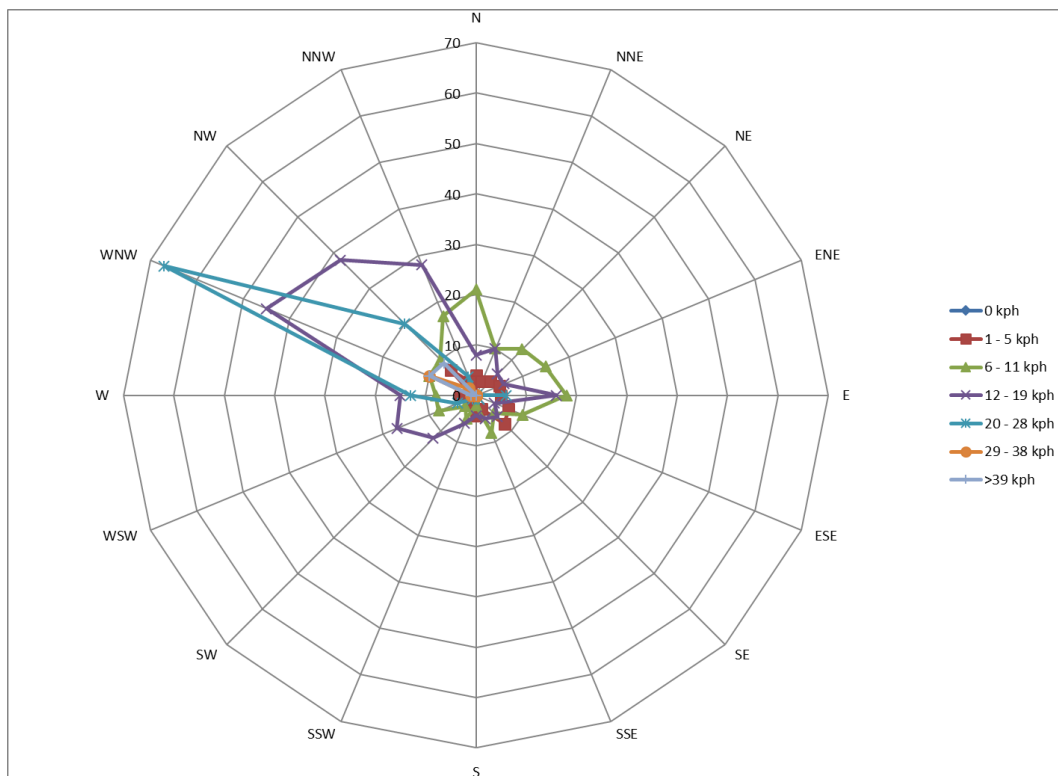


Figure 6-18: June Windrose (1 hour Average, 30m)

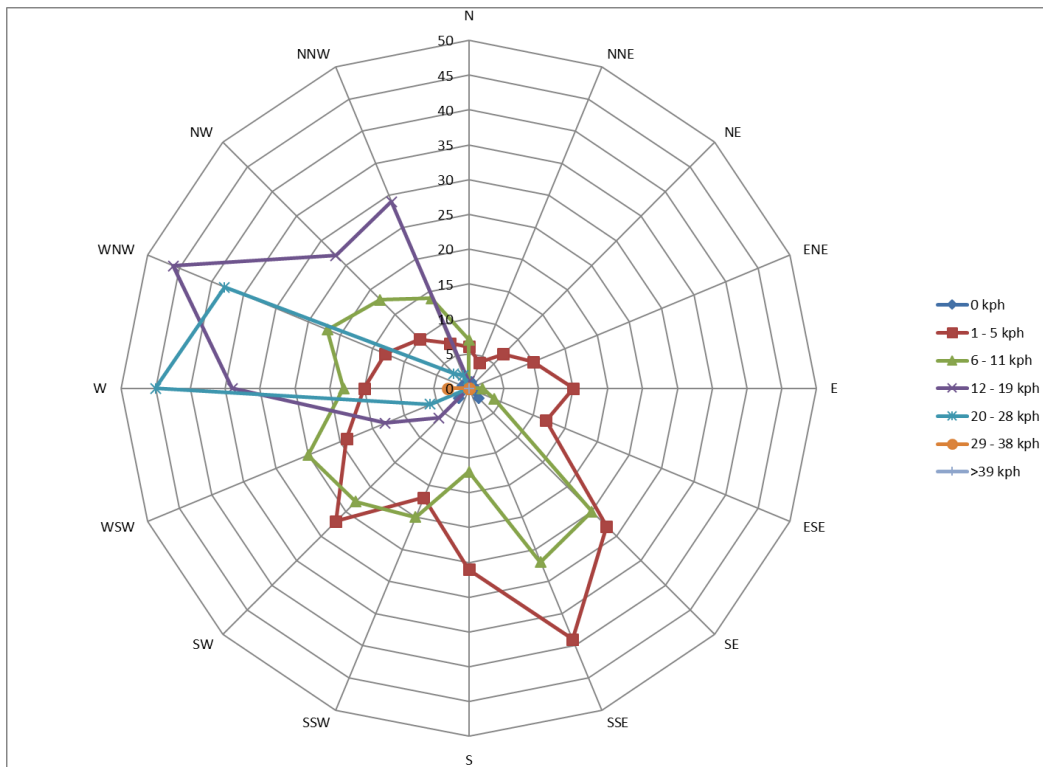


Figure 6-19: July Windrose (1 hour Average, 30m)

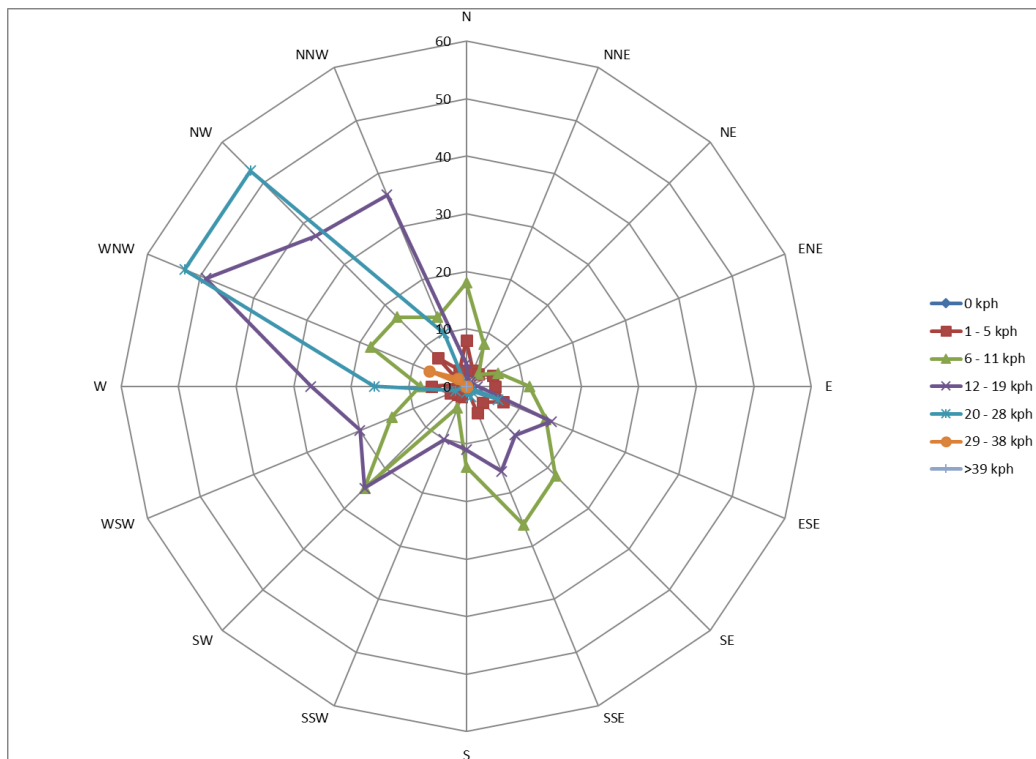


Figure 6-20: August Windrose (1 hour Average, 30m)

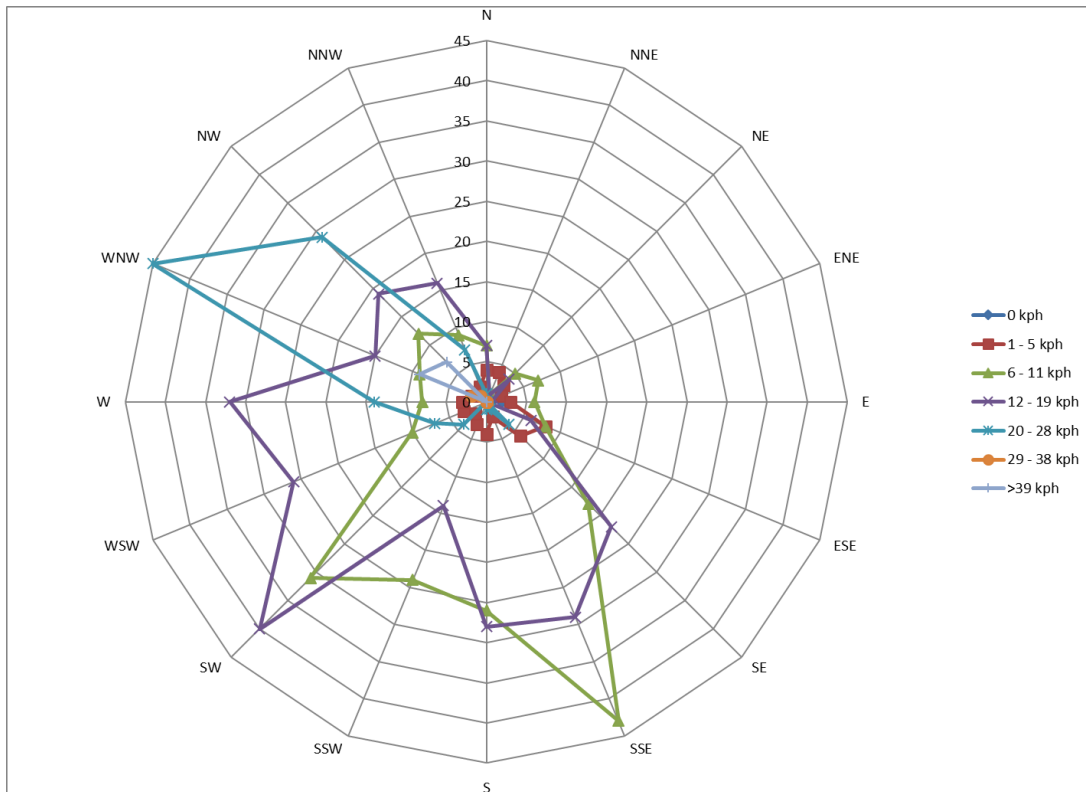


Figure 6-21: September Windrose (1 hour Average, 30m)

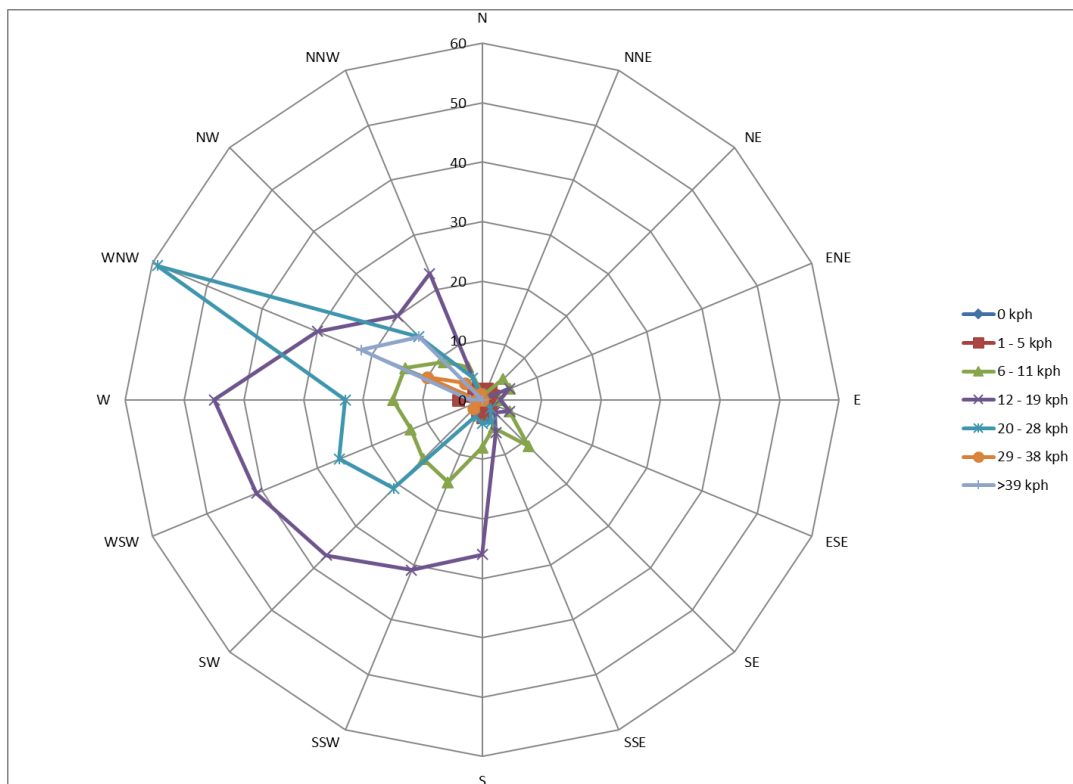


Figure 6-22: October Windrose (1 hour Average, 30m)

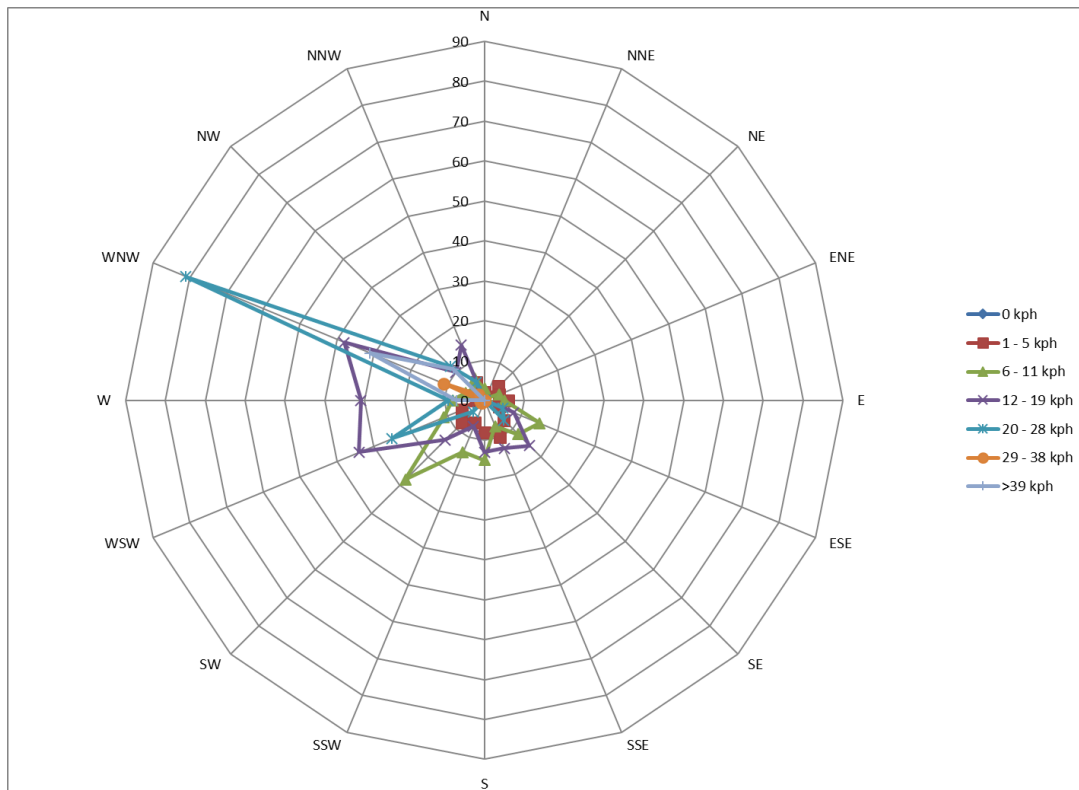


Figure 6-23: November Windrose (1 hour Average, 30m)

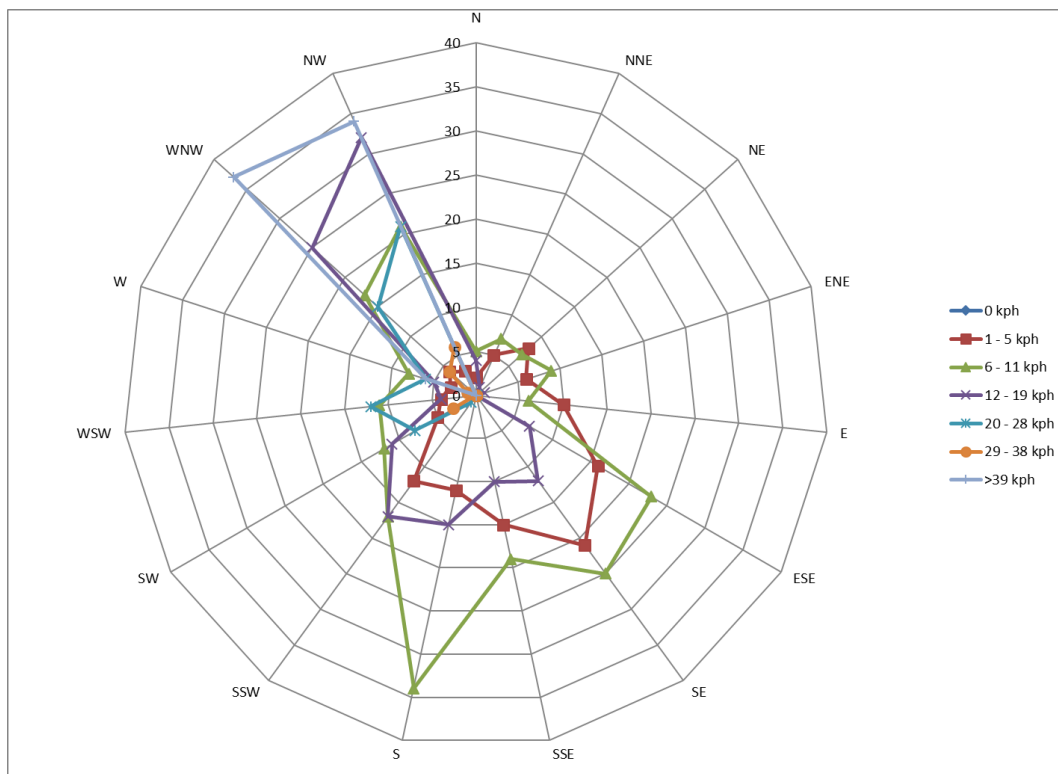


Figure 6-24: December Windrose (1 hour Average, 30m)

6.3. Annual Windrose (10m)

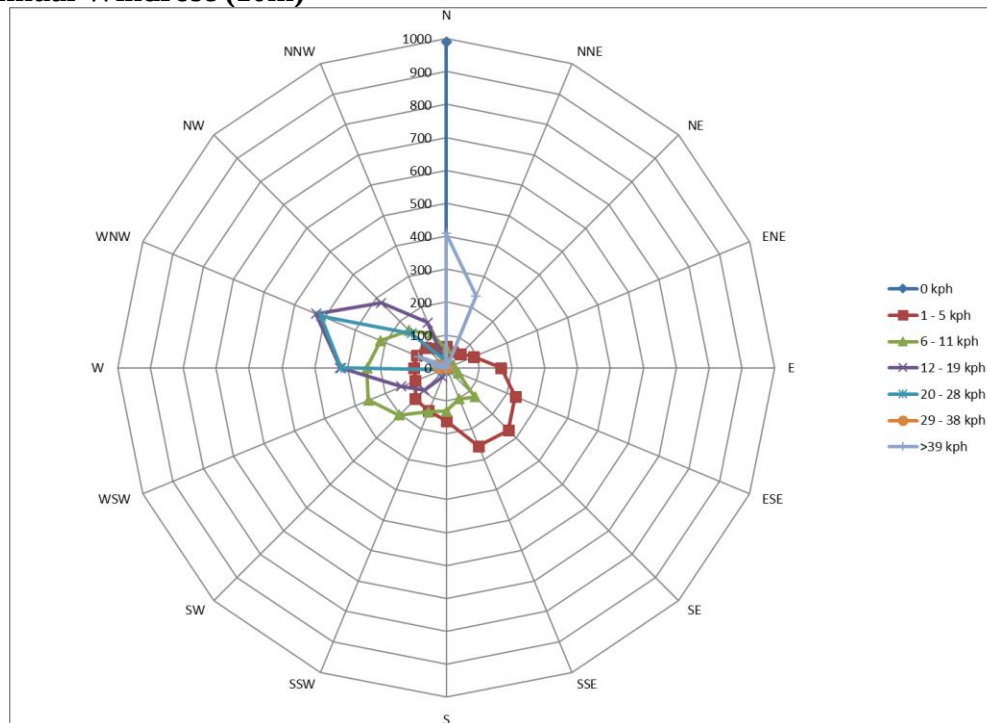


Figure 6-25: Annual Windrose (1 hour Average, 10m)

6.4. Annual Windrose (30m)

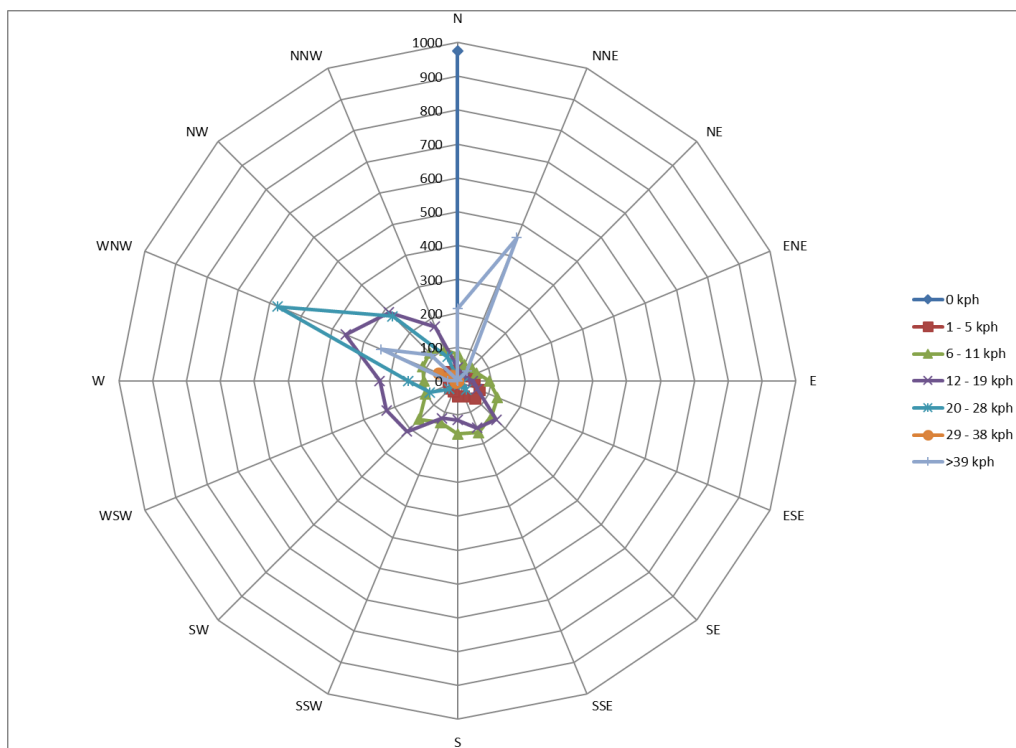


Figure 6-26: Annual Windrose (1 hour Average, 30m)

7. PRECIPITATION

In 2025 precipitation was monitored at the AQM station serviced by Bureau Veritas Canada at a ground level.

Data is summarized in Table 7-1 and Figure 7-1.

Table 7-1: Precipitation

Month	Hourly		Daily		Monthly	Cumulative Frequency Distribution (%)									
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Total (mm)	0.0 - 0.5 mm	0.6 - 1.0 mm	1.1 - 1.5 mm	1.6 - 2.0 mm	2.1 - 2.5 mm	2.6 - 3.0 mm	3.1 - 3.5 mm	3.6 - 4.0 mm	> 4.1 mm	
January	0.0	3.9	0.0	14.4	69.3	93.28	4.84	1.34	0.40	0.00	0.00	0.00	0.13	0.00	
February	0.0	2.6	0.0	4.0	8.4	99.40	0.15	0.30	0.00	0.00	0.15	0.00	0.00	0.00	
March	0.0	3.9	0.0	5.5	20.9	98.92	0.94	0.00	0.00	0.00	0.00	0.00	0.13	0.00	
April	0.0	4.7	0.0	10.3	25.1	98.92	0.94	0.00	0.00	0.00	0.00	0.00	0.13	0.00	
May	0.0	4.2	0.0	7.7	24.3	98.30	0.62	0.31	0.15	0.15	0.15	0.15	0.00	0.15	
June	0.0	7.1	0.0	21.3	65.9	94.32	2.52	1.26	0.79	0.63	0.16	0.00	0.16	0.16	
July	0.0	7.9	0.0	31.9	51.7	97.85	0.94	0.00	0.13	0.27	0.00	0.00	0.27	0.54	
August	0.0	14.2	0.0	28.7	125.5	94.09	1.75	0.81	0.54	1.08	0.54	0.13	0.13	0.94	
September	0.0	1.1	0.0	3.2	10.8	98.89	0.97	0.14	0.00	0.00	0.00	0.00	0.00	0.00	
October	0.0	2.4	0.0	13.9	37.2	97.30	1.75	0.54	0.13	0.27	0.00	0.00	0.00	0.00	
November	0.0	2.2	0.0	8.5	18.1	98.61	0.28	0.69	0.14	0.28	0.00	0.00	0.00	0.00	
December	0.0	4.7	0.0	12.2	69.4	96.10	2.28	0.67	0.27	0.13	0.27	0.00	0.00	0.27	
Annual	0.0	14.2	0.0	31.9	526.6										

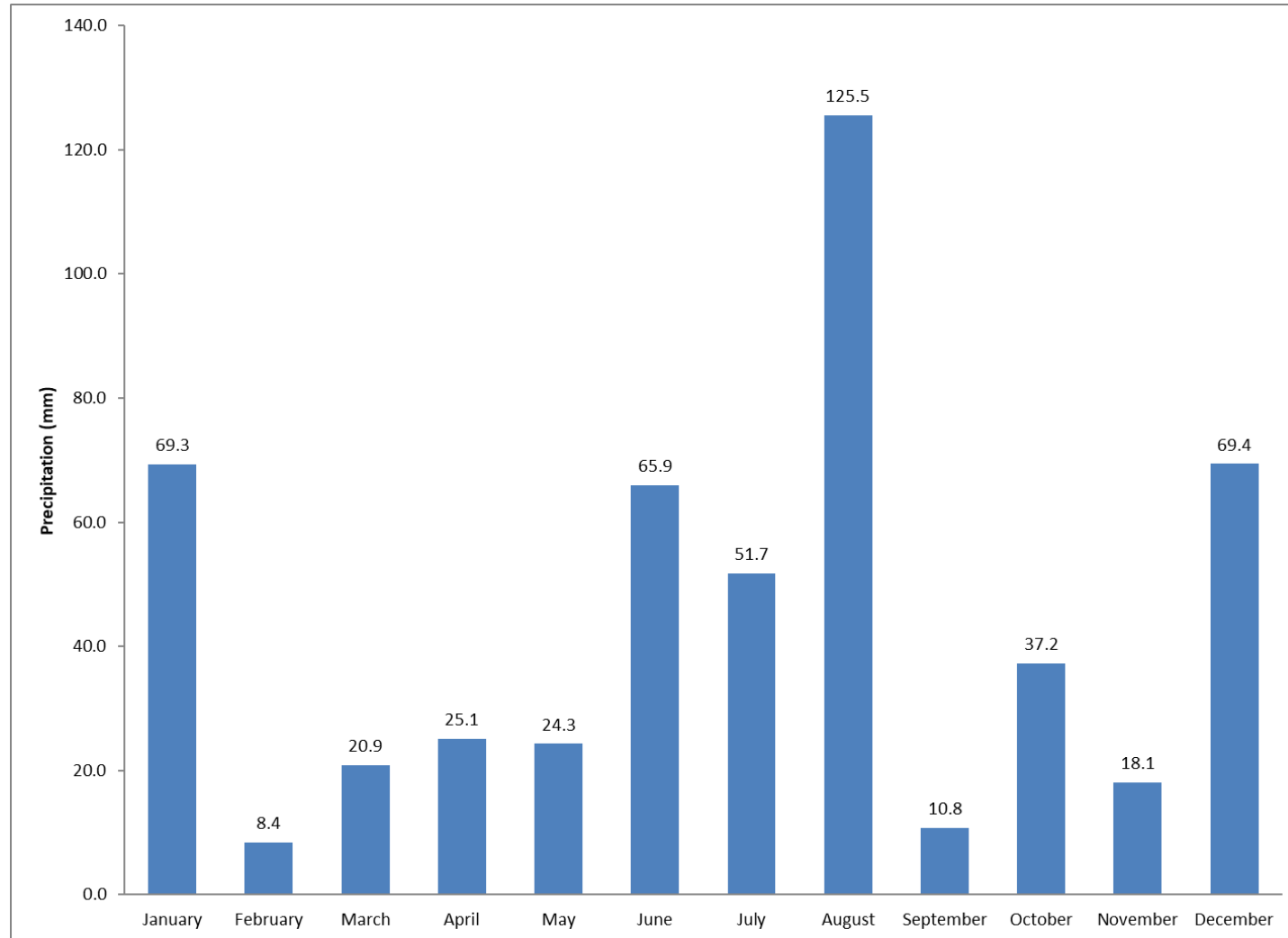


Figure 7-1: Total Precipitation by Month

8. BAROMETRIC PRESSURE

In 2025 barometric pressure was monitored at the AQM station serviced by Bureau Veritas Canada at a ground level.

Data is summarized in Table 8-1 and Figure 8-1.

Table 8-1: Barometric Pressure

Month	Hourly		Daily		Monthly	Cumulative Frequency Distribution				
	Min (mmHg)	Max (mmHG)	Min (mmHg)	Max (mmHg)	Average (mmHg)	641 - 650	651 - 660	661 - 670	671 - 680	> 681
January	656.0	683.0	660.2	680.8	670.1	0.0	6.7	43.5	46.1	3.6
February	654.0	680.0	655.3	676.3	668.2	0.0	11.8	53.3	35.0	0.0
March	656.0	672.0	657.0	671.6	664.3	0.0	20.3	69.1	10.6	0.0
April	658.0	675.0	660.0	674.5	668.0	0.0	4.9	64.2	31.0	0.0
May	662.0	676.0	662.6	673.6	667.9	0.0	0.0	74.2	25.8	0.0
June	663.0	674.0	664.4	673.5	669.4	0.0	0.0	61.8	38.2	0.0
July	662.0	679.0	664.9	677.1	671.0	0.0	0.0	42.7	57.3	0.0
August	662.0	680.0	665.9	678.8	671.4	0.0	0.0	43.4	56.6	0.0
September	662.0	678.0	663.0	677.0	669.7	0.0	0.0	64.3	35.7	0.0
October	654.0	674.0	657.0	673.6	666.3	0.0	16.5	59.8	23.7	0.0
November	653.0	679.0	656.3	678.0	666.6	0.0	12.4	62.6	25.0	0.0
December	648.0	678.0	654.8	672.8	663.6	1.2	26.5	62.5	9.8	0.0
Annual	648.0	683.0	654.8	680.8	668.0					

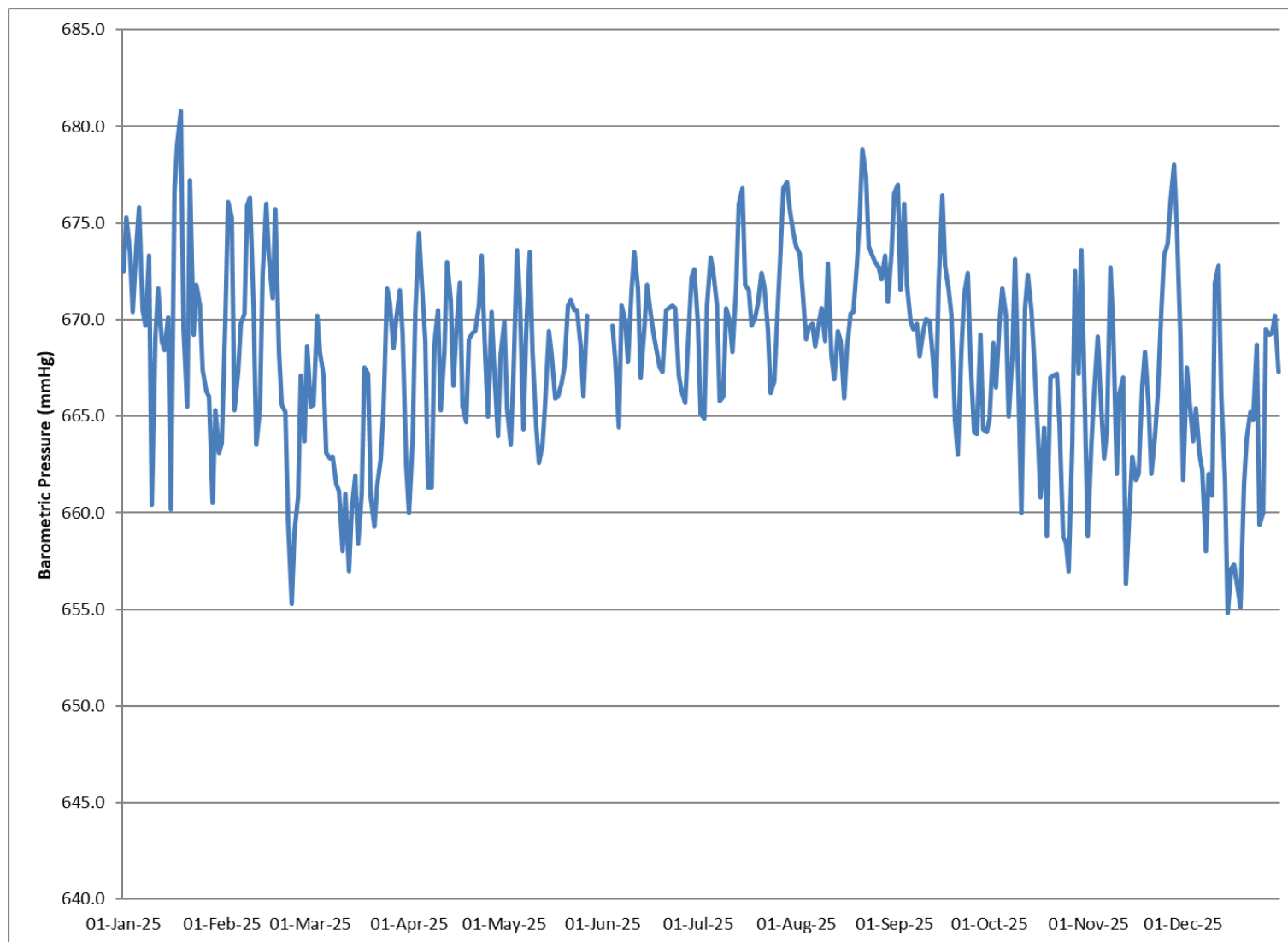


Figure 8-1: Average Daily Barometric Pressure

9. RELATIVE HUMIDITY

In 2025 relative humidity was monitored at the AQM station serviced Bureau Veritas Canada at a ground level.

Data is summarized in Table 9-1 and figures 9-1 and 9-2.

Table 9-1: Relative Humidity

Month	Hourly		Daily		Monthly	Cumulative Frequency Distribution (%)									
	Min (%RH)	Max (%RH)	Min (%RH)	Max (%RH)	Average (%RH)	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100
January	15.0	98.0	36.2	95.1	72.4	0.00	0.81	0.94	2.15	5.65	10.62	17.88	30.65	22.58	8.74
February	31.0	93.0	47.6	80.5	65.9	0.00	0.00	0.00	4.46	7.44	20.09	23.81	38.84	5.21	0.15
March	22.0	99.0	39.4	91.0	67.8	0.00	0.00	2.96	8.60	12.90	13.17	10.35	14.78	27.55	9.68
April	14.0	99.0	31.8	83.6	48.7	0.00	4.17	15.00	22.08	16.94	17.36	10.83	3.61	3.61	6.39
May	10.0	99.0	19.7	88.7	51.1	0.46	6.03	19.17	13.76	16.54	11.13	9.12	6.49	8.50	8.81
June	16.0	99.0	28.1	99.0	64.9	0.00	1.58	7.73	10.57	11.99	12.46	13.88	9.15	11.36	21.29
July	18.0	99.0	42.1	87.3	63.3	0.00	0.27	2.28	11.42	16.67	17.61	14.11	13.84	12.50	11.29
August	18.0	99.0	44.3	99.0	68.3	0.00	0.40	4.97	9.14	11.42	12.10	16.13	11.96	9.01	24.87
September	24.0	99.0	43.8	83.6	60.8	0.00	0.00	2.50	12.92	16.67	20.69	17.50	13.61	8.33	7.78
October	13.0	99.0	40.9	98.5	65.2	0.00	0.67	2.82	13.58	11.42	16.26	13.98	11.42	12.77	17.07
November	28.0	99.0	44.4	99.0	69.2	0.00	0.00	0.14	5.97	13.06	14.17	18.89	18.06	16.53	13.19
December	56.0	99.0	66.6	95.8	79.0	0.00	0.00	0.00	0.00	0.00	1.75	9.14	53.49	22.72	12.90
Annual	10.0	99.0	19.7	99.0	64.7										

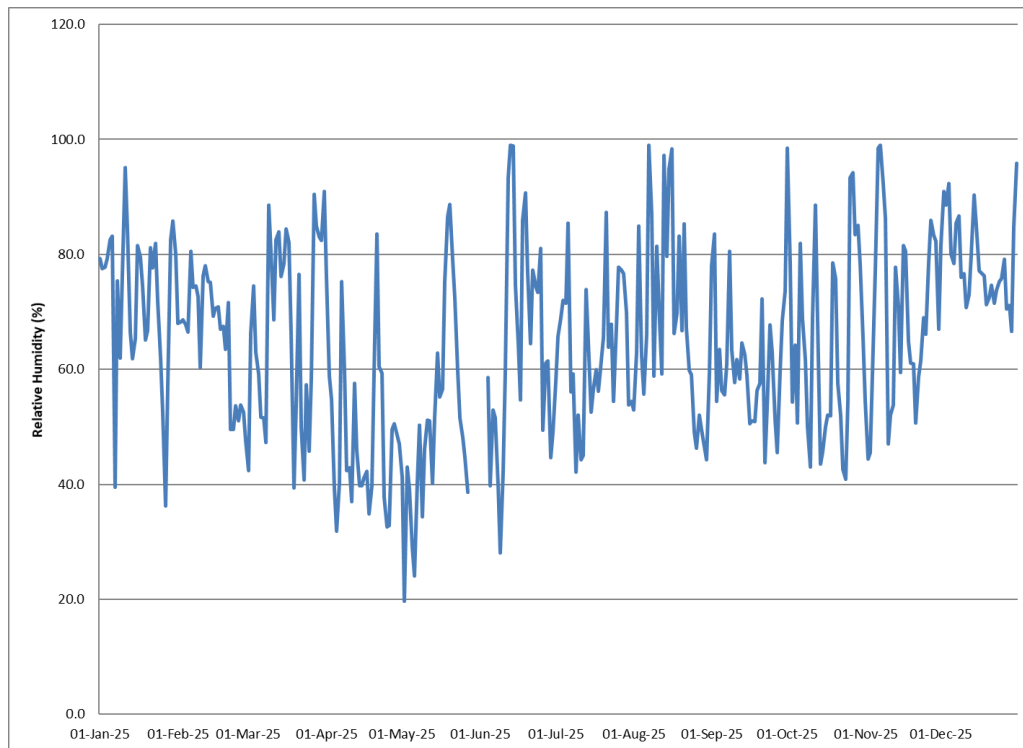


Figure 9-1: Average Daily Relative Humidity

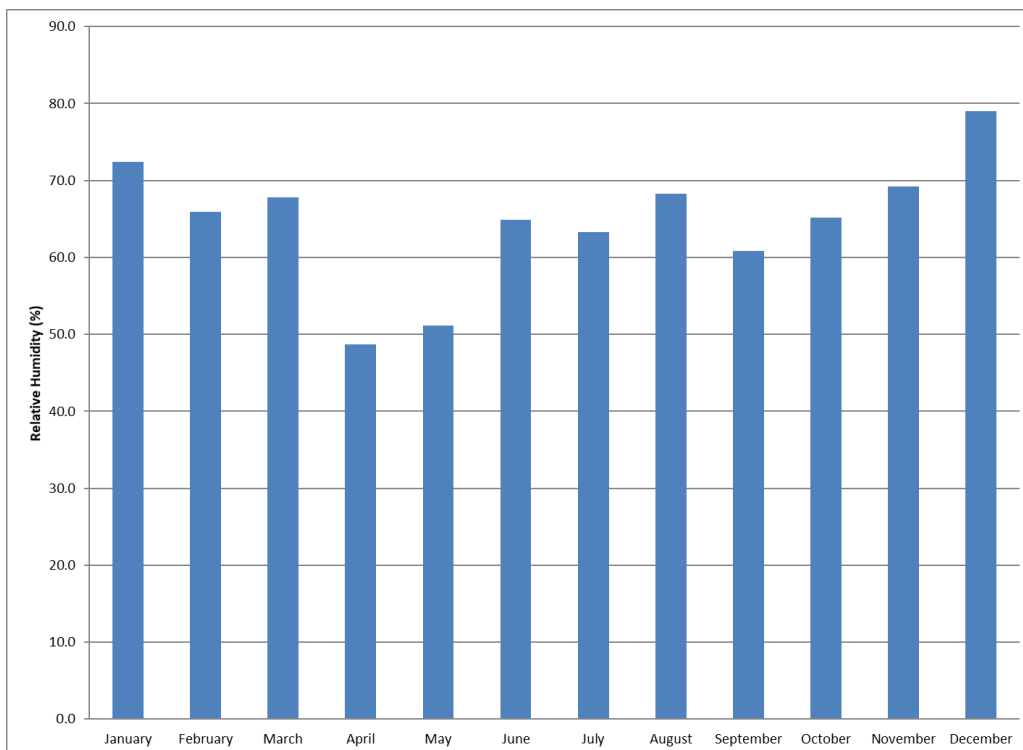


Figure 9-2: Average Monthly Relative Humidity