



2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

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Executive Summary

The Southeast Saskatchewan Airshed Association (SESAA) area is one of six air management zones in Saskatchewan, formed in line with the directive from the Canadian Council of Ministers of the Environment under the Canada-wide Air Quality Management System that Canada will have regional Airsheds comprised of local (Provincial/Territorial) Air Management Zones. The SESAA region encompasses an area of approximately 36,800 square kilometres and includes 45 municipalities in southeast Saskatchewan. Currently, SESAA has 42 member companies, including representatives from the oil and gas, potash, and agriculture industries, as well as municipalities.

SESAA owned and operated stations consist of seven Airpointers® located in Esterhazy, Glen Ewen, Oxbow, Stoughton, Torquay, Wauchope, and Weyburn. Each station continuously measures a combination of sulphur dioxide (SO₂), hydrogen sulphide (H₂S), nitrogen oxides (NO, NO₂, NO_x), ozone (O₃), fine particulate matter less than 2.5 micrometres in diameter (PM_{2.5}), ambient temperature, relative humidity (RH), precipitation, wind speed (WS), and wind direction (WD).

The following analyzers did not have uptimes greater than 90% in 2025:

- Esterhazy: O₃, NO₂, PM_{2.5}, ambient temperature, RH, WS, WD
- Glen Ewen: H₂S, SO₂, NO₂, O₃
- Oxbow: PM_{2.5}, ambient temperature, RH, WS, WD
- Stoughton: H₂S, SO₂, NO₂, precipitation, ambient temperature, RH, WS, WD
- Torquay: H₂S
- Wauchope: H₂S, SO₂, PM_{2.5}
- Weyburn: PM_{2.5}

There were no exceedances of the 1-hour, 24-Hours and / or annual Saskatchewan Ambient Air Quality Standards (SAAQS) for NO₂ or SO₂ at any monitoring sites in 2025. However, there were exceedances of the 1-hour and 24-hour H₂S SAAQS, 8-hour O₃ SAAQS, and the 24-hour and annual SAAQS for PM_{2.5} at the following stations:

H₂S 1 - hour (11 parts per billion [ppb])

- Glen Ewen: 2 exceedances, with a maximum concentration of 21.2 ppb
- Oxbow: 1 exceedance, with a maximum concentration of 16.2 ppb
- Stoughton: 1 exceedance, with a maximum concentration of 22.4 ppb
- Wauchope: 75 exceedances, with a maximum concentration of 45.2 ppb
- Weyburn: 6 exceedances, with a maximum concentration of 12.8 ppb

H₂S 24 - hour (3.6 ppb)

- Wauchope: 13 exceedances, with a maximum concentration of 10.2 ppb



O₃ 8 - hour (63 ppb)

- Glen Ewen: 5 exceedances, with a maximum concentration of 63.8 ppb

PM_{2.5} 24 - hour (28 µg/m³)

- Esterhazy: 8 exceedances, with a maximum concentration of 274.5 µg/m³
- Oxbow: 4 exceedances, with a maximum concentration of 66.3 µg/m³
- Torquay: 14 exceedances, with a maximum concentration of 111.5 µg/m³
- Wauchope: 26 exceedances, with a maximum concentration of 220.9 µg/m³
- Weyburn: 2 exceedances, with a maximum concentration of 96.1 µg/m³

Air Quality Health Index is calculated at the Esterhazy monitoring station. At the Esterhazy station, air quality was rated as Low Risk 93.6% of the time. Moderate Risk levels occurred 6.1% of the time, while High Risk levels were observed only 0.3% of the time. Very High-risk Levels were not encountered in 2025.

Air Quality Index was calculated in 2025 at the Glen Ewen and Oxbow Stations. Glen Ewen is calculated using NO₂, SO₂, and O₃, while Oxbow is calculated using NO₂, SO₂, and PM_{2.5}. Each station experienced lower risk levels (good to fair) the majority of the time, with lower risk levels occurring 100.0% of the time at Glen Ewen, 84.5% of the time at Oxbow.



Table of Contents

Statement of Limitations	ii
Executive Summary	iii
Table of Contents	v
Acronyms and Abbreviations	viii
1.0 Introduction	1
1.1 Southeast Saskatchewan Airshed Association	1
1.2 Southeast Saskatchewan Airshed Association Air Monitoring Network	1
2.0 Air Quality Monitoring	3
2.1 Summary of Exceedances	3
2.2 System Downtimes	4
2.2.1 Esterhazy	4
2.2.2 Glen Ewen	4
2.2.3 Oxbow	4
2.2.4 Stoughton	4
2.2.5 Torquay	5
2.2.6 Wauchope	5
2.2.7 Weyburn	5
2.3 Wind	5
3.0 Continuous Air Monitoring	9
3.1 Sulphur Dioxide	9
3.2 Hydrogen Sulphide	13
3.3 Nitrogen Dioxide	18
3.4 Ozone	22
3.5 Fine Particulate Matter	24
4.0 Health Indices	28
4.1 Air Quality Health Index	28
4.2 Air Quality Index	29
5.0 Quality Assurance and Quality Control Program	30
6.0 Closure	31



Tables in Text

Table 1: SESAA Monitoring Stations and Measurement Parameters.....	3
Table 2: Summary of Saskatchewan Ambient Air Quality Standards Exceedances for 2025..	4
Table 3: Summary of 2025 Sulphur Dioxide Monitoring	9
Table 4: Summary of 2025 Sulphur Dioxide Exceedances	10
Table 5: Summary of 2025 Hydrogen Sulphide Monitoring	14
Table 6: Summary of 2025 Hydrogen Sulphide Exceedances	14
Table 7: Summary of 2025 Nitrogen Dioxide Monitoring	18
Table 8: Summary of 2025 Nitrogen Dioxide Exceedances	19
Table 9: Summary of 2025 Ozone Monitoring	22
Table 10: Summary of 2025 Ozone Exceedances	23
Table 11: Summary of 2025 Fine Particulate Matter Monitoring	25
Table 12: Summary of 2025 Fine Particulate Matter Exceedances.....	25
Table 13: Environment Canada Health Risk Classification for Air Quality Health Index (ECCC 2018).....	29
Table 14: Summary of 2025 Air Quality Health Index Monitoring	29
Table 15: Summary of 2025 Air Quality Index Monitoring	30

Figures in Text

Figure 1: SESAA Region and Locations of the Continuous Air Monitoring Stations	2
Figure 2: Esterhazy Wind Rose for 1-Hour Average Data In 2025	6
Figure 3: Glen Ewen Wind Rose For 1-Hour Average Data In 2025	6
Figure 4: Oxbow Wind Rose for 1-Hour Average Data In 2025.....	7
Figure 5: Stoughton Wind Rose for 1-Hour Average Data In 2025.....	7
Figure 6: Torquay Wind Rose for 1-Hour Average Data In 2025.....	8
Figure 7: Weyburn Wind Rose for 1-Hour Average Data In 2025.....	8
Figure 8: Glen Ewen Sulfur Dioxide Pollution Rose	10
Figure 9: Oxbow Sulfur Dioxide Pollution Rose.....	11
Figure 10: Stoughton Sulfur Dioxide Pollution Rose	11
Figure 11: Torquay Sulfur Dioxide Pollution Rose.....	12
Figure 12: Wauchope Sulfur Dioxide Pollution Rose	12
Figure 13: Weyburn Sulfur Dioxide Pollution Rose	13
Figure 14: Glen Ewen Hydrogen Sulphide Pollution Rose	15
Figure 15: Oxbow Hydrogen Sulphide Pollution Rose	15



Figure 16: Stoughton Hydrogen Sulphide Pollution Rose	16
Figure 17: Torquay Hydrogen Sulphide Pollution Rose.....	16
Figure 18: Wauchope Hydrogen Sulphide Pollution Rose.....	17
Figure 19: Weyburn Hydrogen Sulphide Pollution Rose	17
Figure 20: Esterhazy Nitrogen Dioxide Pollution Rose.....	19
Figure 21: Glen Ewen Nitrogen Dioxide Pollution Rose	20
Figure 22: Oxbow Nitrogen Dioxide Pollution Rose	20
Figure 23: Stoughton Nitrogen Dioxide Pollution Rose	21
Figure 24: Weyburn Nitrogen Dioxide Pollution Rose	21
Figure 25: Esterhazy Ozone Pollution Rose	23
Figure 26: Glen Ewen Ozone Pollution Rose.....	24
Figure 27: Esterhazy Fine Particulate Matter Pollution Rose	26
Figure 28: Oxbow Fine Particulate Matter Pollution Rose	26
Figure 29: Torquay Fine Particulate Matter Pollution Rose	27
Figure 30: Wauchope Fine Particulate Matter Pollution Rose	27
Figure 31: Weyburn Fine Particulate Matter Pollution Rose.....	28

Appendices

Appendix A	Saskatchewan Ambient Air Quality Standards
Appendix B	Esterhazy Station: Continuous Monitoring Data
Appendix C	Glen Ewen Station: Continuous Monitoring Data
Appendix D	Oxbow Station: Continuous Monitoring Data
Appendix E	Stoughton Station: Continuous Monitoring Data
Appendix F	Torquay Station: Continuous Monitoring Data
Appendix G	Wauchope Station: Continuous Monitoring Data
Appendix H	Weyburn Station: Continuous Monitoring Data
Appendix I	Southeast Saskatchewan Airshed Association Exceedance
Summary	



Acronyms and Abbreviations

Acronym	Full Form
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
AQHI	Air Quality Health Index
AQI	Air Quality Index
CO	carbon monoxide
H ₂ S	hydrogen sulphide
m/s	metres per second
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
PM _{2.5}	particulate matter less than 2.5 micrometres
RH	relative humidity
SAAQS	Saskatchewan Ambient Air Quality Standards
SESAA	Southeast Saskatchewan Airshed Association
SO ₂	sulphur dioxide
VOCs	volatile organic compounds
WD	wind direction
WS	wind speed



1.0 Introduction

The Southeast Saskatchewan Airshed Association (SESAA) area is one of six air management zones in Saskatchewan, formed in line with the directive from the Canadian Council of Ministers of the Environment (i.e., CCME) under the Canada-wide Air Quality Management System (i.e., AQMS) that Canada will have regional Airsheds comprised of local (Provincial/Territorial) Air Management Zones. The approach is designed to collect credible, continuous real-time air quality information through collaborative efforts.

The SESAA region encompasses an area of approximately 36,800 square kilometres and includes 45 municipalities in southeast Saskatchewan, as illustrated in Figure 1. Currently, SESAA has 42 member companies, including representatives from the oil and gas, potash, and agriculture industries, as well as municipalities.

1.1 Southeast Saskatchewan Airshed Association

SESAA operates as an independent, collaborative non-profit organization composed of industry, government, and other stakeholders. Its goal is to collect credible, continuous air quality data and to communicate this information to member organizations, government bodies, and the public.

1.2 Southeast Saskatchewan Airshed Association Air Monitoring Network

There are currently seven continuous air monitoring stations in the SESAA region which consists of seven Airpointers® located in Esterhazy, Glen Ewen, Oxbow, Stoughton, Torquay, Wauchope, and Weyburn. Each station continuously measures a combination of sulphur dioxide (SO₂), hydrogen sulphide (H₂S), nitrogen oxides (nitric oxide [NO], nitrogen dioxide [NO₂], oxides of nitrogen [NO_x]), ozone (O₃), fine particulate matter less than 2.5 micrometres (µm) in diameter (PM_{2.5}), ambient temperature, relative humidity (RH), precipitation, wind speed (WS), and wind direction (WD). A summary of the parameters being monitored at each station is provided in Table 1.

The Airpointers® have been operating since as early as March 2010 (Weyburn) and as recently as November 2018 (Torquay). Publicly available monitoring data is available on the SESAA website.¹

¹ SESAA. 2018. Southeast Saskatchewan Airshed Association website. <https://sesaa.ca/>.



Figure 1: SESAA Region and Locations of the Continuous Air Monitoring Stations

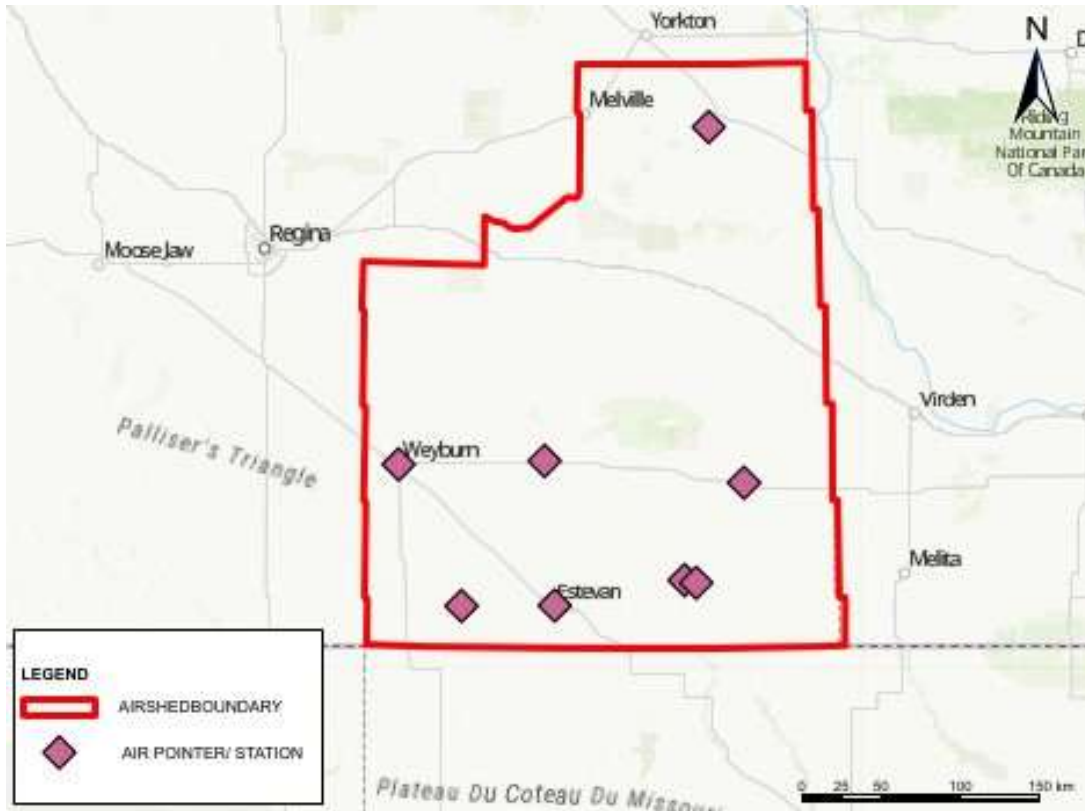


Table 1: SESAA Monitoring Stations and Measurement Parameters

Station Name	Monitoring Station						
	Esterhazy	Glen Ewen	Oxbow	Stoughton	Torquay	Wauchope	Weyburn
Latitude	50.65	49.20	49.20	49.67	49.14	49.59	49.55
Longitude	-102.08	-101.99	-102.18	-103.14	-103.45	-101.89	-103.86
Monitoring Parameters							
SO ₂	-	√	√	√	√	√	√
H ₂ S	-	√	√	√	√	√	√
NO	√	√	√	√	-	-	√
NO ₂	√	√	√	√	-	-	√
NO _x	√	√	√	√	-	-	√
O ₃	√	√	-	-	-	-	-
PM _{2.5}	√	-	√	-	√	√	√
Precipitation	√	√	√	√	√	-	√
Ambient Temperature	√	√	√	√	√	-	√
Relative Humidity	√	√	√	√	√	-	√
Wind Speed	√	√	√	√	√	-	√
Wind Direction	√	√	√	√	√	-	√

- : Parameter not monitored.

2.0 Air Quality Monitoring

2.1 Summary of Exceedances

The Saskatchewan Ambient Air Quality Standards (SAAQS), established by the Saskatchewan Ministry of Environment, provide science-based benchmarks designed to protect both public health and the environment. SESAA continuously monitors air quality and compares the data to these standards to assess regional air quality and monitor compliance with provincial guidelines.

Table 2 below summarizes SAAQS exceedances for the SESAA operated air monitoring stations in 2025.



Table 2: Summary of Saskatchewan Ambient Air Quality Standards Exceedances for 2025

Parameter	No. of Stations	Average Type	Saskatchewan Ambient Air Quality Standards	No. of Exceedances
SO ₂	6	1-Hour	172 parts per billion (ppb)	0
		24-Hour	48 ppb	0
		Annual	8 ppb	0
H ₂ S	6	1-Hour	11 ppb	85
		24-Hour	3.6 ppb	13
NO ₂	5	1-Hour	159 ppb	0
		24-Hour	106 ppb	0
		Annual	24 ppb	0
O ₃	2	1-Hour	82 ppb	0
		8-Hour ⁽¹⁾	63 ppb	5
PM _{2.5}	5	24-Hour ⁽²⁾	28 micrograms per cubic metre (µg/m ³)	54

(1) The 3-year average of the annual 4th-highest daily maximum 8-hour average concentrations. However, the reported exceedances are any 8-hour averages higher than the SAAQS.

(2) The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations. However, the reported exceedances are any 24-hour averages higher than the SAAQS.

2.2 System Downtimes

2.2.1 Esterhazy

System downtimes of the Esterhazy station in 2025 were primarily attributed to internal station temperatures exceeding acceptable operating limits. The Esterhazy Airpointer remained shut down from June to December 2025.

2.2.2 Glen Ewen

System downtimes at the Glen Ewen station from January through July 2025 were caused by internal system connection issues that restricted the completion of required calibrations.

2.2.3 Oxbow

Oxbow PM_{2.5} operated for approximately 35.0% of the time in 2025 due to analyzer error.

2.2.4 Stoughton

System downtimes at the Stoughton station from June to December 2025 were primarily attributed to internal station temperatures exceeding acceptable operating limits. Consequently, the Stoughton Airpointer remained shut down from July to December 2025.



2.2.5 Torquay

The Torquay H₂S analyzer was removed for repair from July to November 2025, resulting in an operational time of approximately 62.7%.

2.2.6 Wauchope

The Wauchope H₂S, SO₂, and PM_{2.5} analyzers experienced errors in 2025, resulting in downtimes for each analyzer.

2.2.7 Weyburn

Weyburn PM_{2.5} analyzer was removed for repair from June to November 2025, resulting in an operational time of approximately 48.1%.

2.3 Wind

Air quality depends on the rate at which pollutants are released into the atmosphere from natural or human-made sources and how effectively they are dispersed from those sources. The transport and dispersion of air pollutants are directly influenced by wind speed, wind direction, temperature, and local topography. Variations in ambient temperature gradients and surface roughness create different levels of atmospheric turbulence, which affect pollutant mixing at each monitoring station.

Wind direction patterns varied by station. At Esterhazy, prevailing winds were from the west southwest (18.8%), Glen Ewen and Oxbow were predominantly from the west-northwest and west (15.5% and 15.7%, respectively), and Torquay and Weyburn from the northwest (12.9% and 13.2%, respectively). Stoughton saw winds primarily from the east-southeast (14.3%). Wind data was not collected from Wauchope in 2025. Wind rose diagrams can be seen for all stations except Wauchope in Figure 2 through Figure 7. Windspeeds at the stations ranged from an average of 2.2 metres per second (m/s) at the Esterhazy Station to 3.9 m/s at the Torquay station.



Figure 2: Esterhazy Wind Rose for 1-Hour Average Data In 2025

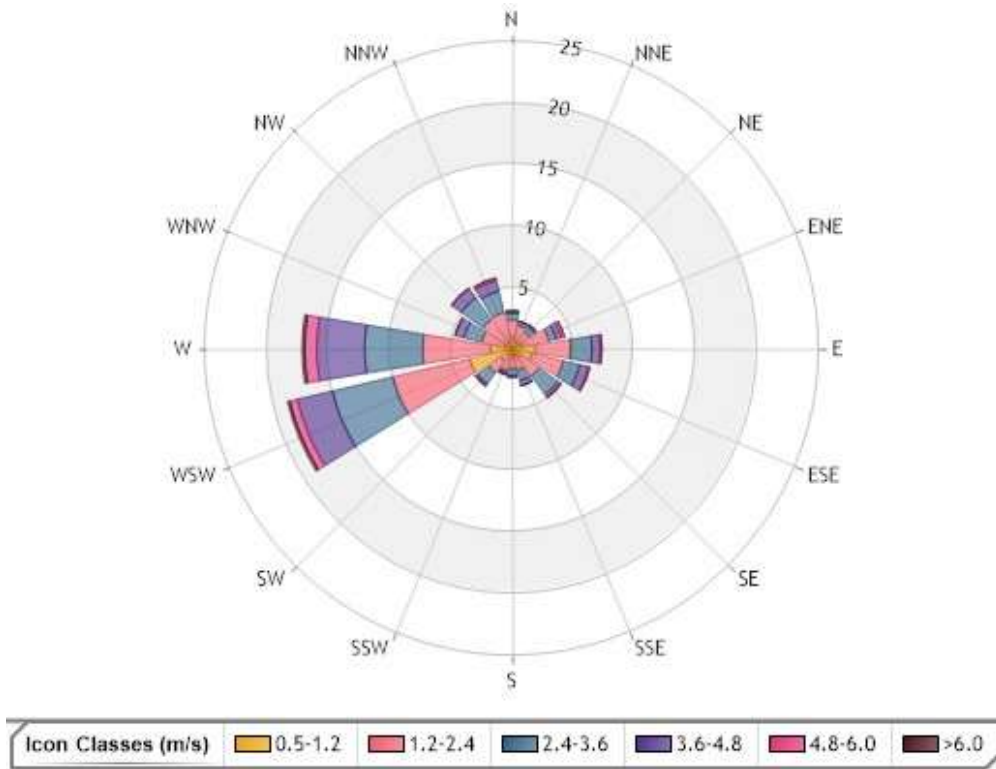


Figure 3: Glen Ewen Wind Rose For 1-Hour Average Data In 2025

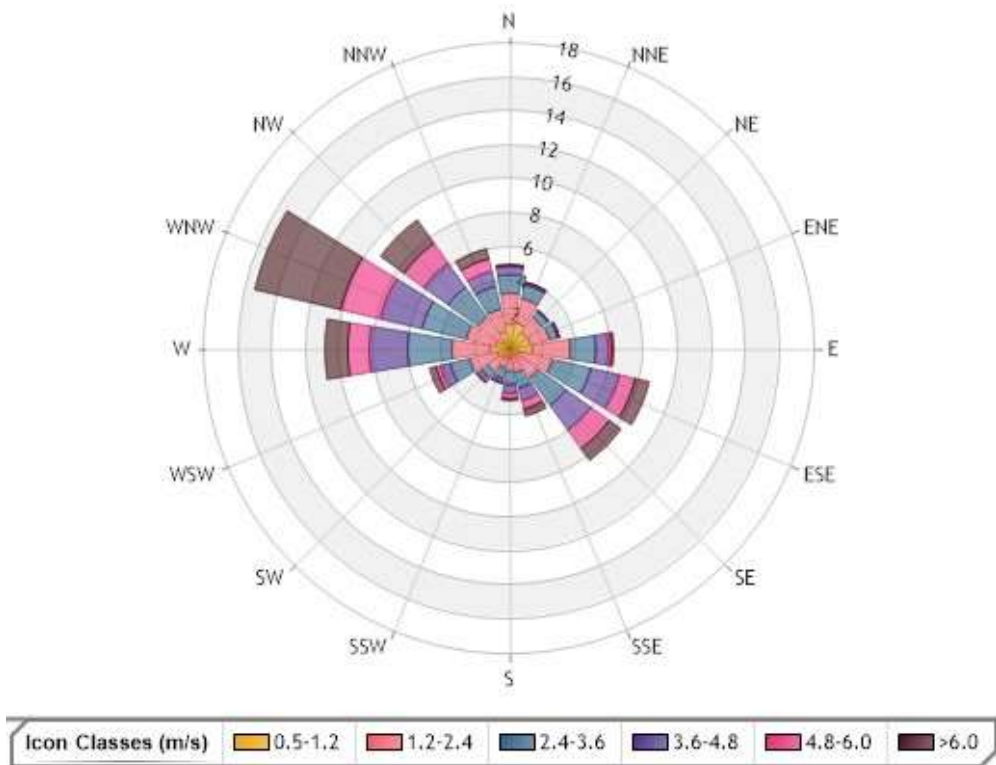


Figure 4: Oxbow Wind Rose for 1-Hour Average Data In 2025

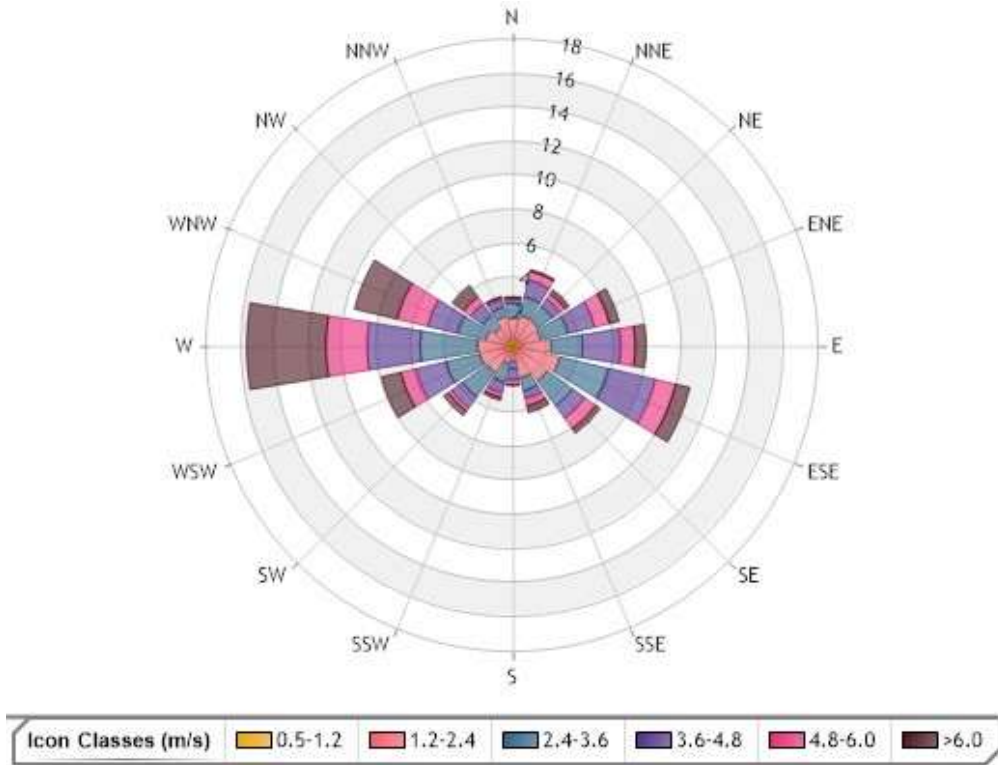


Figure 5: Stoughton Wind Rose for 1-Hour Average Data In 2025

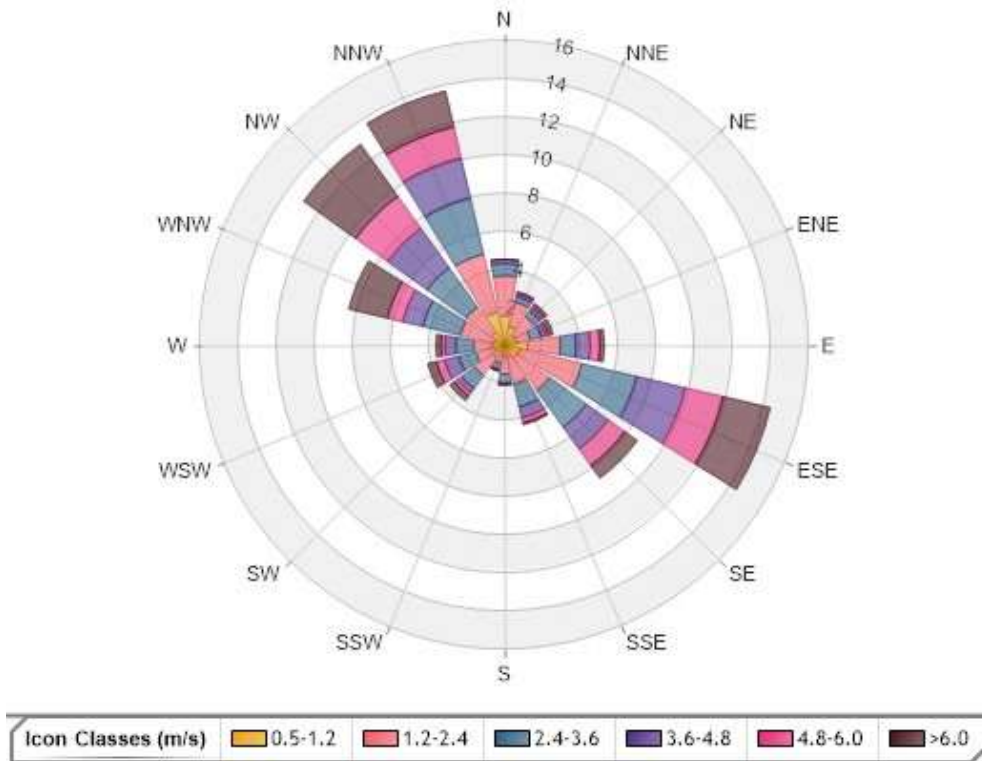


Figure 6: Torquay Wind Rose for 1-Hour Average Data In 2025

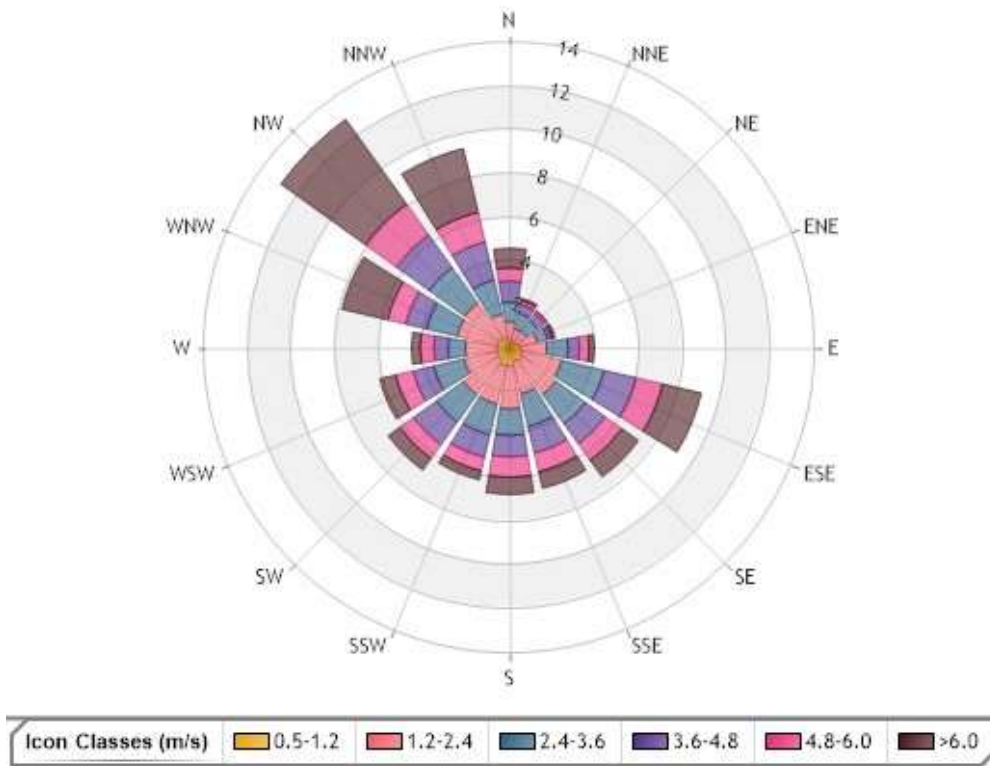
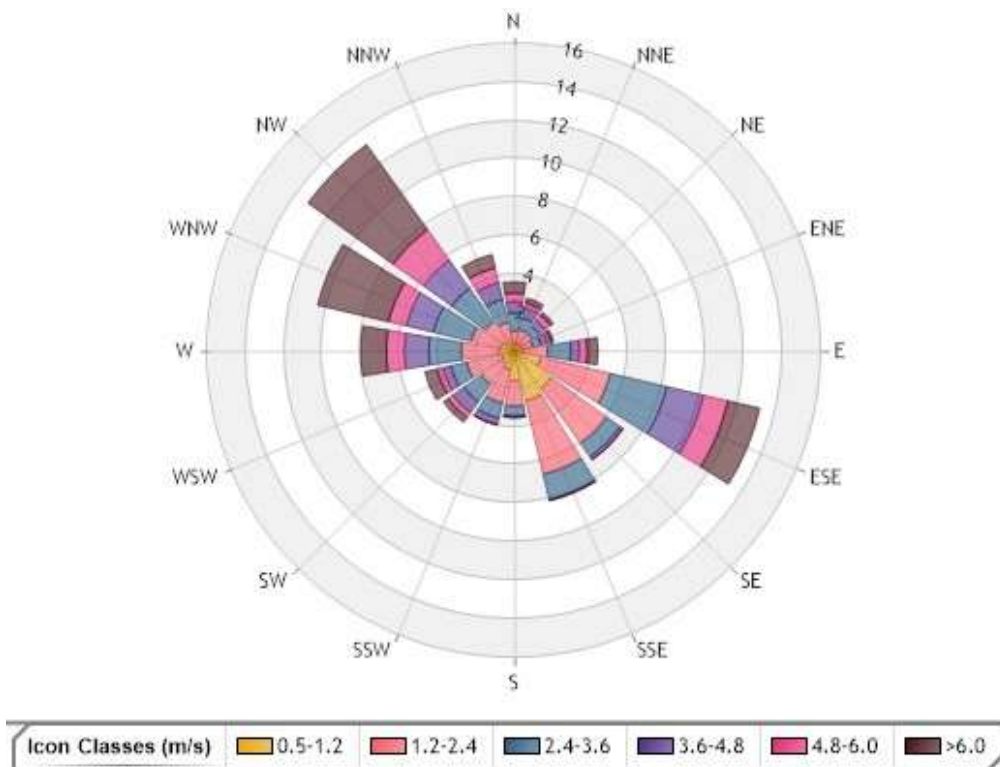


Figure 7: Weyburn Wind Rose for 1-Hour Average Data In 2025



3.0 Continuous Air Monitoring

3.1 Sulphur Dioxide

SO₂ is a colourless gas with a strong odour that poses risks to both human health and the environment. Exposure to SO₂ can irritate the respiratory system in humans and animals, with individuals who have asthma or reduced lung function being particularly vulnerable. In the environment, elevated concentrations of SO₂ can damage crops and forests, and contribute to the formation of acid rain, which negatively affects soil, water bodies, and entire ecosystems.

In Canada, the major sources of SO₂ are metal smelters, fossil fuel-fired power plants, transportation, upstream oil and gas, and other industrial facilities.

The SAAQS for SO₂ are:

- 1-hour average = 172 ppb
- 24-hour average = 48 ppb
- Annual average = 8 ppb

SO₂ is measured at six stations: Glen Ewen, Oxbow, Stoughton, Torquay, Wauchope, and Weyburn. In 2025, the average SO₂ concentrations were low, ranging from 0.4 ppb at Torquay to 1.5 ppb at Weyburn. The highest 1-hour concentration recorded was 40.3 ppb at the Weyburn station on November 9, 2025. The maximum 24-hour average was measured at the Weyburn station on March 18, 2025, reaching 9.1 ppb. There were no exceedances of the 1-hour, 24-hour or annual SAAQS at any of the sites. Operational uptimes were less than 90% at Glen Ewen (40.5%), Stoughton (43.8%), and Wauchope (87.4%). Table 3 and Table 4 below show the SO₂ summaries for 2025.

Table 3: Summary of 2025 Sulphur Dioxide Monitoring

Monitoring Station	Annual Average	Instrument Uptime	Maximum Sulphur Dioxide Concentration			
			1-Hour Max.		24 Hour Max.	
	ppb	%	ppb	Time	ppb	Date
Glen Ewen	0.7	40.5	17.5	08/26/2025 12:00	2.1	12/29/2025 24:00
Oxbow	0.9	94.2	15.7	12/29/2025 16:00	4.6	12/29/2025 24:00
Stoughton	0.6	43.8	14.7	03/02/2025 13:00	3.9	01/14/2025 24:00
Torquay	0.4	94.1	12.7	04/21/2025 12:00	2.7	02/17/2025 24:00
Wauchope	0.6	87.4	26.8	02/19/2025 16:00	5.6	02/19/2025 24:00
Weyburn	1.5	95.2	40.3	11/09/2025 15:00	9.1	03/18/2025 24:00

Red indicates an operational uptime of less than 90%.

ppb = Parts per billion.



Table 4: Summary of 2025 Sulphur Dioxide Exceedances

Monitoring Station	No. of Saskatchewan Ambient Air Quality Standards (SAAQS) Sulphur Dioxide Exceedances		
	1-hr SAAQS	24-hr SAAQS	Annual SAAQS
	172 ppb	48 ppb	8 ppb
Glen Ewen	0	0	0
Oxbow	0	0	0
Stoughton	0	0	0
Torquay	0	0	0
Wauchope	0	0	0
Weyburn	0	0	0

Pollution roses for SO₂ at all sites are shown in Figures 8 through 13 below. The Wauchope pollution rose was developed using wind data from the Glen Ewen station, located approximately 44 km south of Wauchope. At all locations, concentrations are less than 1 ppb ranging between 55.1% of the time at Weyburn, and 93.1% of the time at Torquay. At Glen Ewen, higher concentration events (>4.8 ppb) tend to occur when winds are from the west-northwest. At Weyburn, higher concentrations are associated with winds from the east-southeast or northwest. No discernible trends were identified at the other stations.

Figure 8: Glen Ewen Sulfur Dioxide Pollution Rose

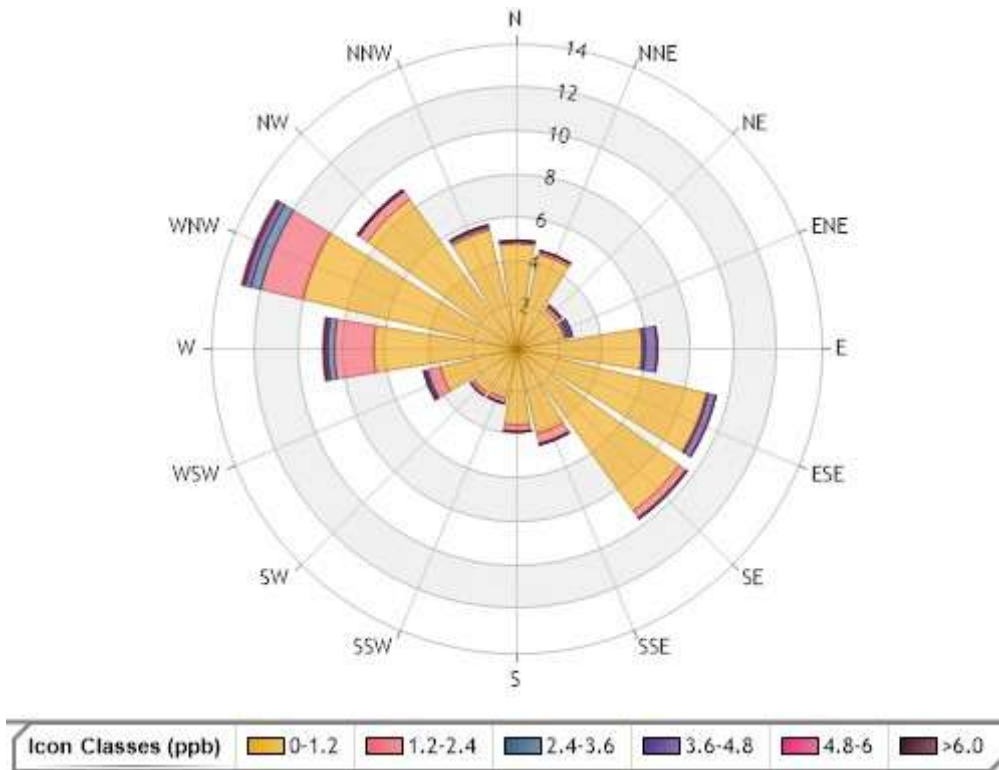


Figure 9: Oxbow Sulfur Dioxide Pollution Rose

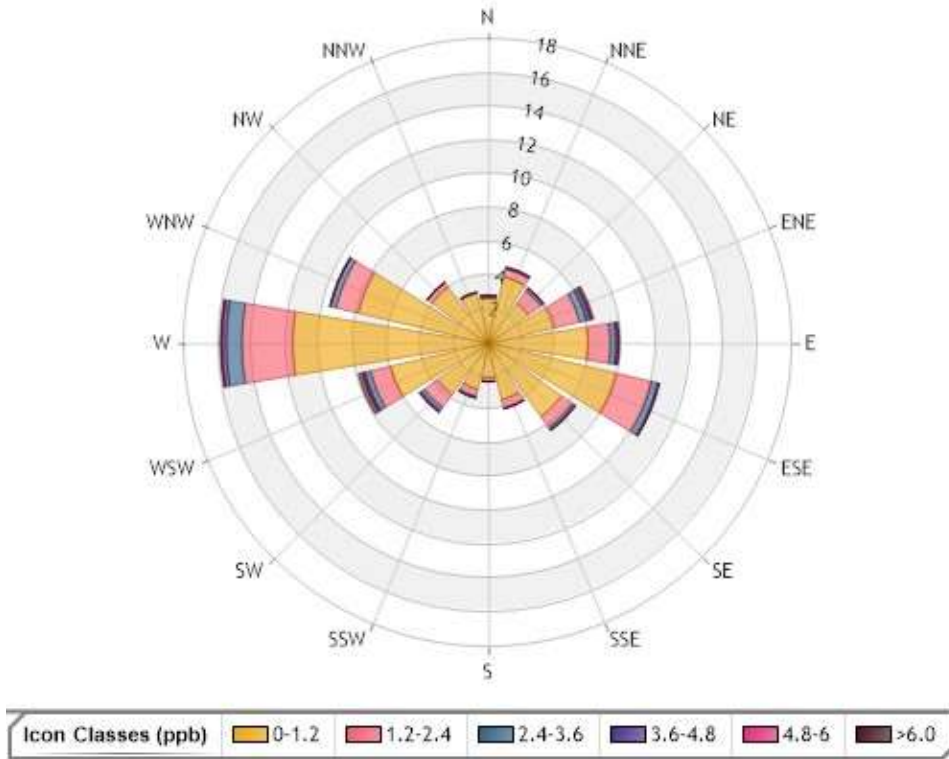


Figure 10: Stoughton Sulfur Dioxide Pollution Rose

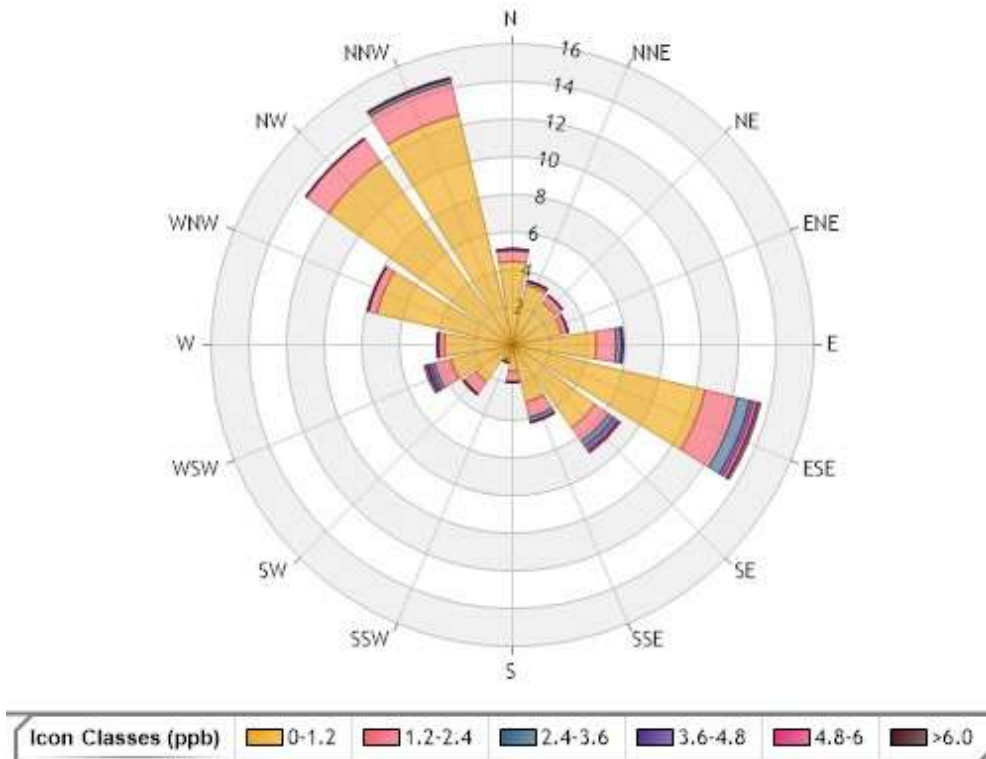


Figure 11: Torquay Sulfur Dioxide Pollution Rose

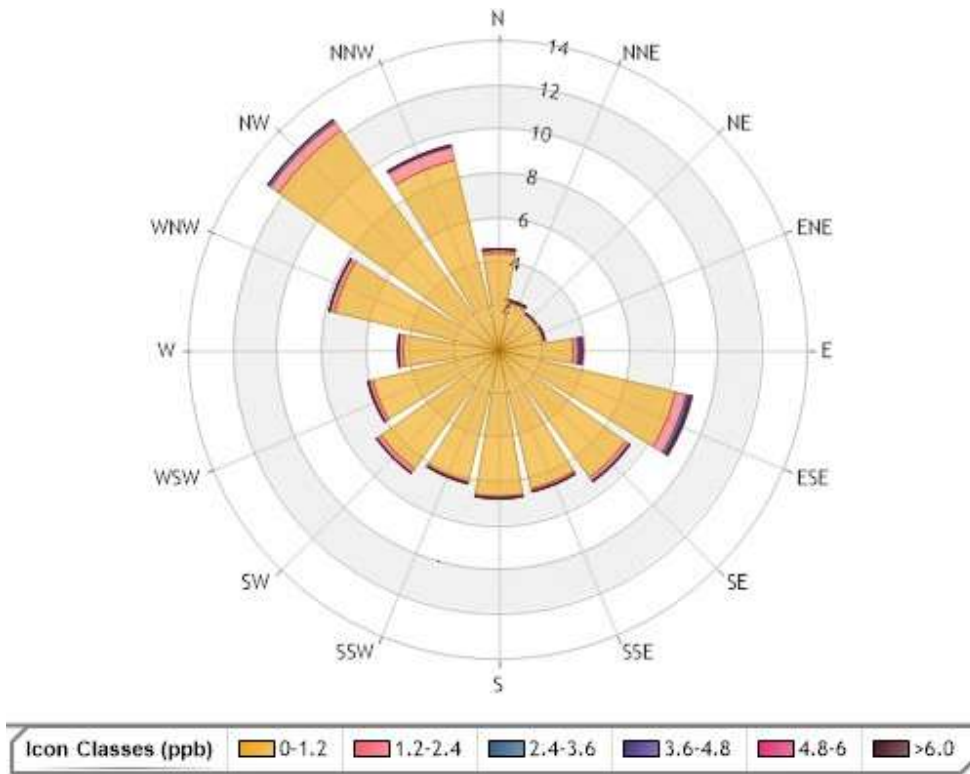


Figure 12: Wauchope Sulfur Dioxide Pollution Rose

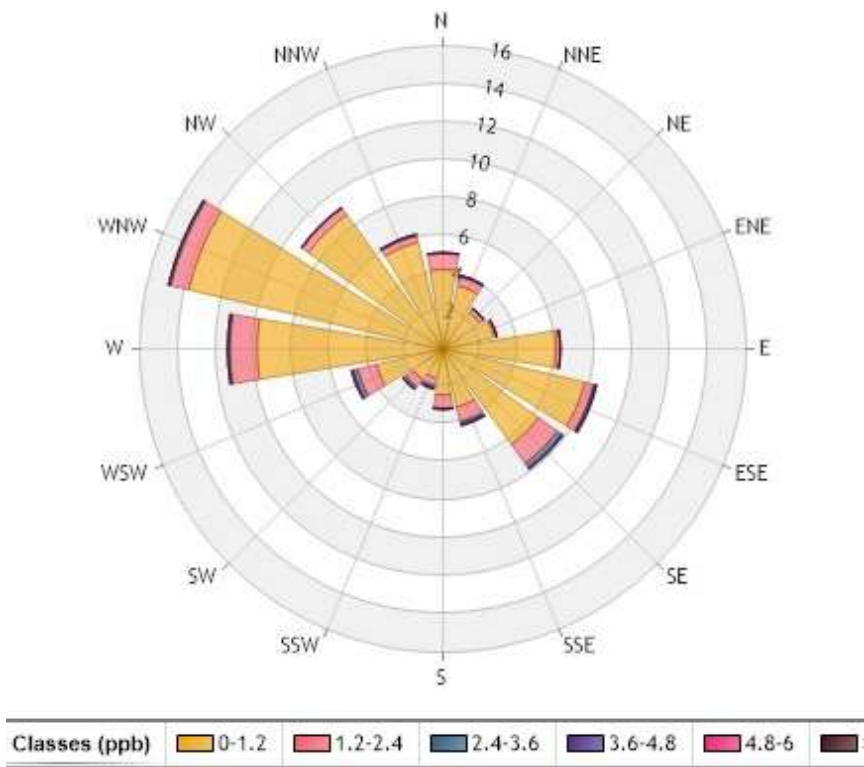
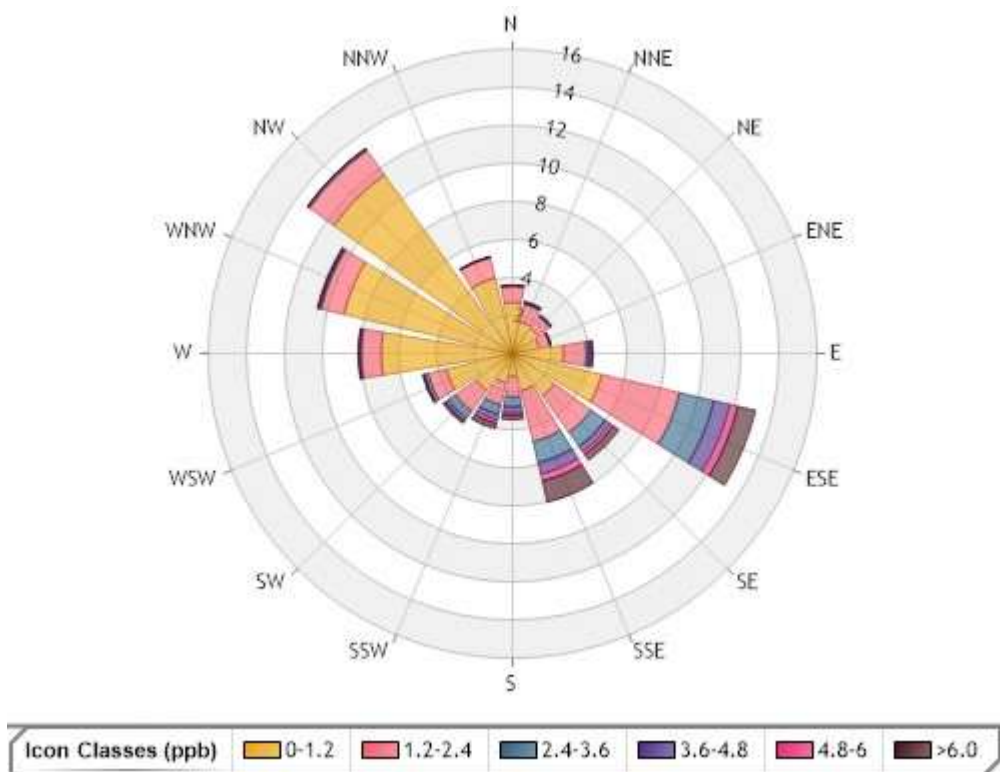


Figure 13: Weyburn Sulfur Dioxide Pollution Rose



3.2 Hydrogen Sulphide

H₂S is a colourless gas with a distinctive “rotten egg” odour. At high concentrations, it can be toxic, potentially damaging the nervous system and other organs or tissues in the body. H₂S is released from both natural and anthropogenic sources. Naturally, it is emitted by volcanoes, hot springs, and crude oil deposits, as well as from the decomposition of organic matter. Anthropogenic sources include mining operations, oil and gas facilities, livestock production, and wastewater treatment systems.

The SAAQS for H₂S are:

- 1-hour average = 11 ppb
- 24-hour average = 3.6 ppb

H₂S is measured at six stations: Glen Ewen, Oxbow, Stoughton, Torquay, Wauchope, and Weyburn. In 2025, the average H₂S concentrations were low, ranging between 0.3 ppb at Oxbow and 1.2 ppb at Wauchope. The highest 1-hour concentration recorded was 45.2 ppb at the Wauchope station on July 17, 2025. The maximum 24-hour average was measured at the Wauchope station on August 7, 2025, reaching 10.2 ppb. There were multiple exceedances of the 1-hour and 24-hour SAAQS at multiple stations in 2025, as shown in Table 5. Operational uptimes were less than 90% at Glen Ewen (40.5%), Stoughton (44.3%), Torquay (62.7%), and Wauchope (65.1%).

Table 6 below shows the H₂S exceedances summaries for 2025.



Table 5: Summary of 2025 Hydrogen Sulphide Monitoring

Monitoring Station	Annual Average	Instrument Uptime	Maximum Hydrogen Sulphide Concentration			
			1-Hour Max.		24 Hour Max.	
	ppb	%	ppb	Time	ppb	Date
Glen Ewen	0.6	40.5	21.2	11/04/2025 21:00	2.0	10/07/2025 24:00
Oxbow	0.3	94.2	16.2	05/22/2025 03:00	1.7	05/22/2025 24:00
Stoughton	0.4	44.3	22.4	05/23/2025 11:00	1.6	12/15/2025 24:00
Torquay	0.5	62.7	7.9	04/24/2025 18:00	1.9	06/10/2025 24:00
Wauchope	1.2	65.1	45.2	07/17/2025 05:00	10.2	08/07/2025 24:00
Weyburn	0.9	95.2	12.8	04/20/2025 24:00	2.9	08/07/2025 24:00

Red indicates an operational uptime of less than 90%.

ppb = Parts per billion.

Table 6: Summary of 2025 Hydrogen Sulphide Exceedances

Monitoring Station	No. of Saskatchewan Ambient Air Quality Standards (SAAQS) Hydrogen Sulphide Exceedances	
	1-hr SAAQS	24-hr SAAQS
	11 ppb	3.6 ppb
Glen Ewen	2	0
Oxbow	1	0
Stoughton	1	0
Torquay	0	0
Wauchope	75	13
Weyburn	6	0

Pollution roses for H₂S at all sites are presented in Figure 14 through Figure 19 below. The Wauchope pollution rose was developed using wind data from the Glen Ewen station, located approximately 44 km south of Wauchope. At all locations, concentrations are less than 1 ppb ranging from 65.1% of the time at Weyburn to 97.8% of the time at Oxbow. The majority of elevated concentrations (>5.0 ppb) at Wauchope, which recorded the highest number of 1-hour and 24-hour exceedances, appear to occur when the wind is from the northwest. Elevated concentrations at Glen Ewen and Stoughton occur under west-northwest and north-northwest winds, while those at Weyburn occur under east-southeast winds. No discernible trends were identified at the other stations.



Figure 14: Glen Ewen Hydrogen Sulphide Pollution Rose

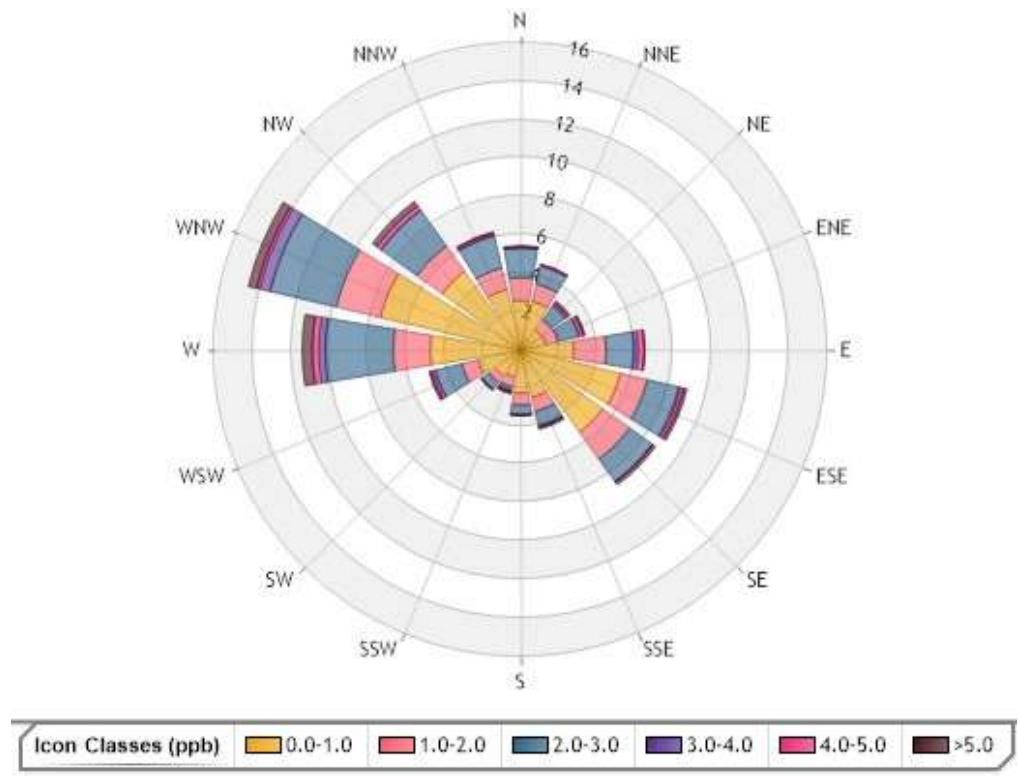


Figure 15: Oxbow Hydrogen Sulphide Pollution Rose

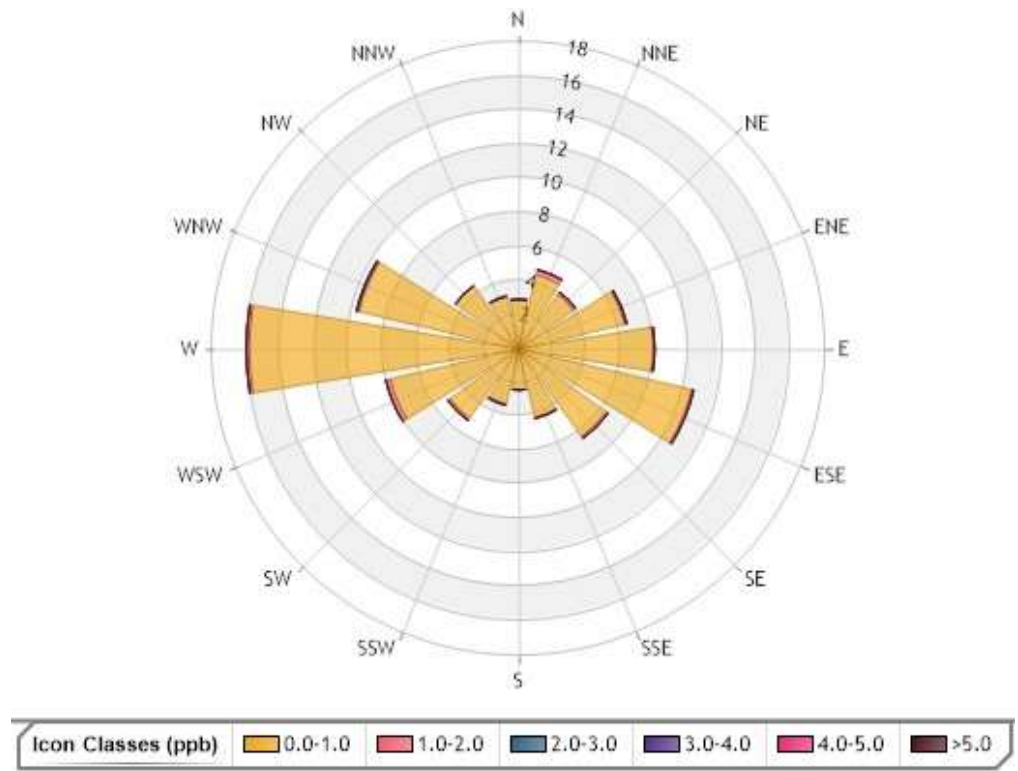


Figure 16: Stoughton Hydrogen Sulphide Pollution Rose

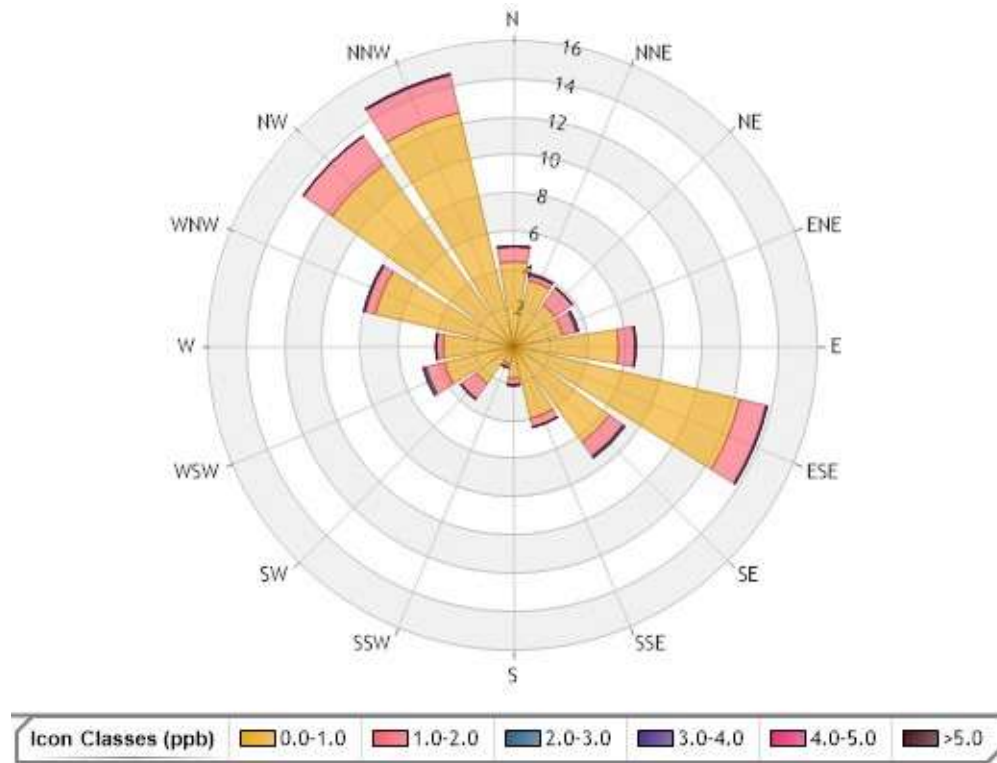


Figure 17: Torquay Hydrogen Sulphide Pollution Rose

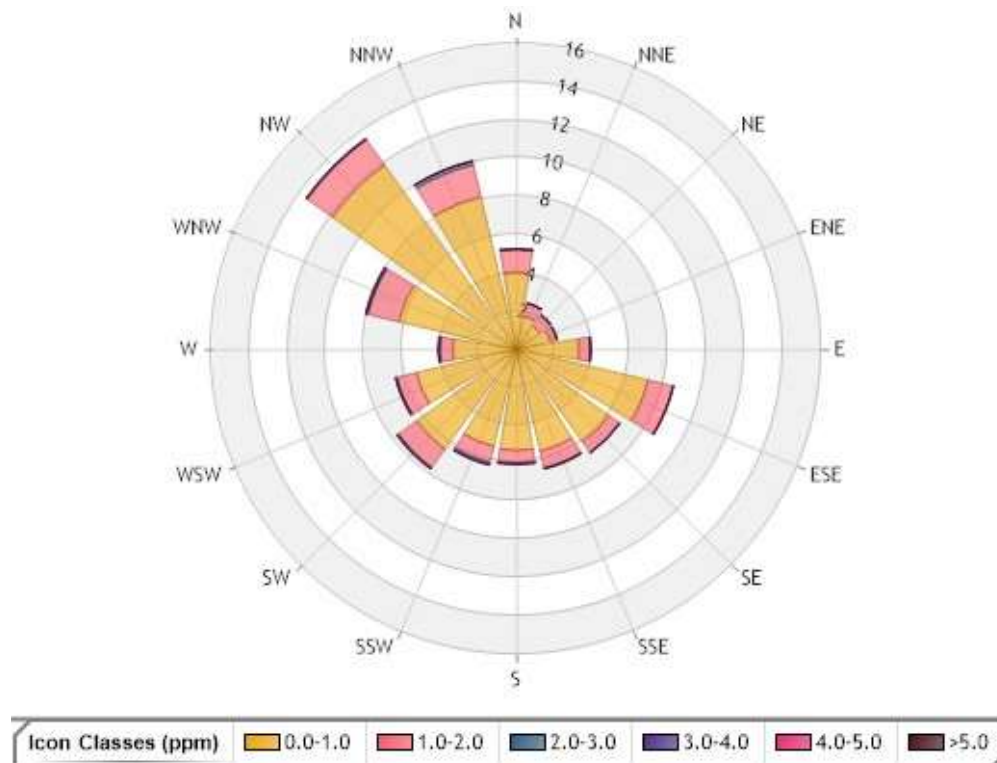


Figure 18: Wauchope Hydrogen Sulphide Pollution Rose

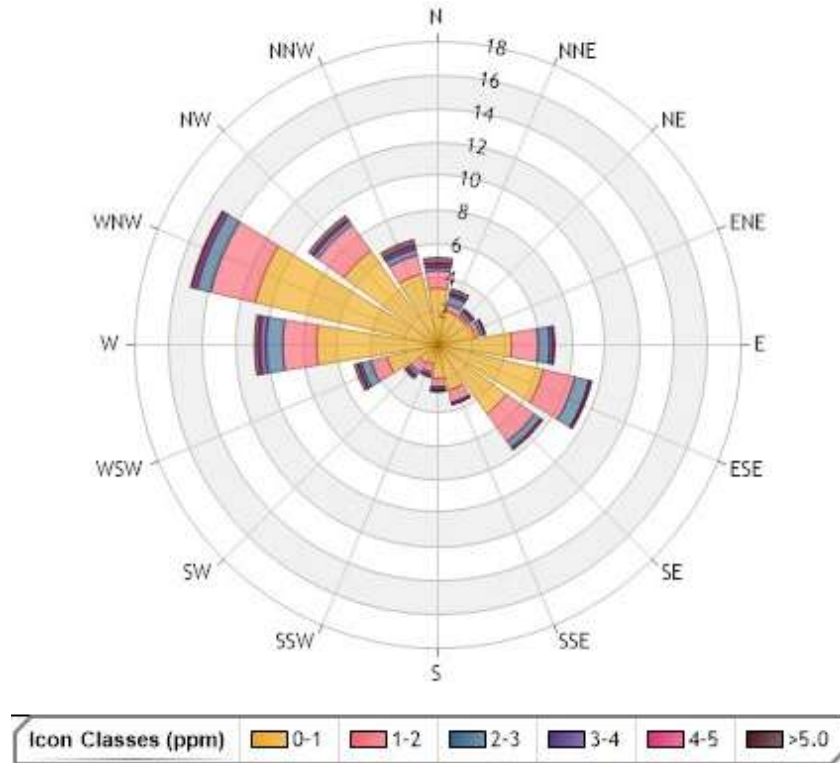
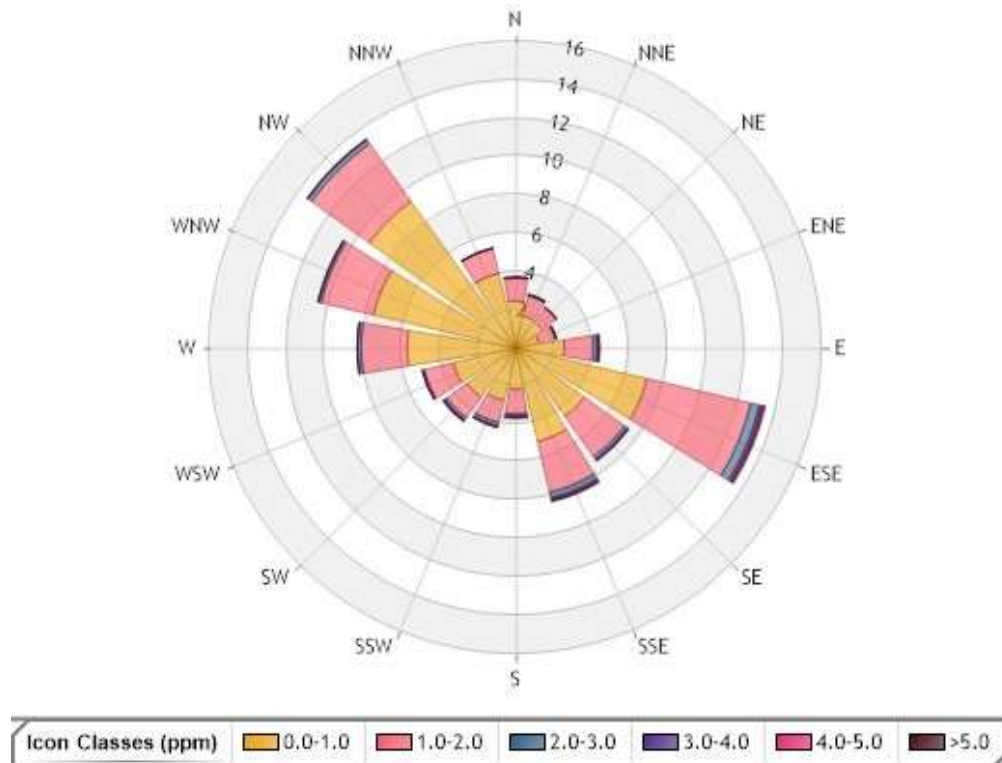


Figure 19: Weyburn Hydrogen Sulphide Pollution Rose



3.3 Nitrogen Dioxide

NO₂ is a gas formed when nitric oxide (NO) reacts with O₃ in the ambient air. Together, NO and NO₂ are commonly referred to as oxides of nitrogen (NO_x). Exposure to NO₂ can impair respiratory health by reducing lung function and worsening conditions such as asthma. Similar to SO₂, NO₂ can damage crops and forests, and contribute to the formation of acid rain, which negatively affects soil, water bodies, and entire ecosystems.

The major emission sources of NO_x include transportation, fossil-fuelled electric power plants, and the upstream oil and gas industry.

The SAAQS for NO₂ are:

- 1-hour average = 159 ppb
- 24-hour average = 106 ppb
- Annual average = 24 ppb

NO₂ is measured at the Esterhazy, Glen Ewen, Oxbow, Stoughton, and Weyburn stations. In 2025, the average NO₂ concentrations were low, ranging from 1.4 ppb at Glen Ewen to 2.6 ppb at Esterhazy. The highest 1-hour concentration recorded was 38.0 ppb at the Weyburn station on May 31, 2025. The maximum 24-hour average occurred on the same date at the Weyburn station, measuring 8.9 ppb. There were no exceedances of the 1-hour, 24-hour, or annual SAAQS at any of the sites. Operational uptimes were less than 90% at Esterhazy (47.6%), Glen Ewen (26.2%) and Stoughton (46.7%). Table 7 and Table 8 below show the NO₂ summaries for 2025.

Table 7: Summary of 2025 Nitrogen Dioxide Monitoring

Monitoring Station	Annual Average	Instrument Uptime	Maximum Nitrogen Dioxide Concentration			
			1-Hour Max.		24 Hour Max.	
	ppb	%	ppb	Time	ppb	Date
Esterhazy	2.5	47.6	27.8	02/25/2025 09:00	8.6	03/24/2025 24:00
Glen Ewen	1.4	26.2	14.0	12/15/2025 08:00	5.2	12/15/2025 24:00
Oxbow	1.9	94.5	11.1	10/21/2025 19:00	5.5	05/31/2025 24:00
Stoughton	1.7	46.7	15.9	12/19/2025 16:00	6.7	12/08/2025 24:00
Weyburn	1.7	92.5	38.0	05/31/2025 22:00	8.9	05/31/2025 24:00

Red indicates an operational uptime of less than 90%.

ppb = Parts per billion.



Table 8: Summary of 2025 Nitrogen Dioxide Exceedances

Monitoring Station	No. of Saskatchewan Ambient Air Quality Standards (SAAQS) Nitrogen Dioxide Exceedances		
	1-hr SAAQS	24-hr SAAQS	Annual SAAQS
	159 ppb	106 ppb	24 ppb
Esterhazy	0	0	0
Glen Ewen	0	0	0
Oxbow	0	0	0
Stoughton	0	0	0
Weyburn	0	0	0

Pollution roses for NO₂ at each of the stations are shown in Figure 20 through Figure 24 below. At each location, concentrations are less than 5 ppb from 90.9% of the time at Esterhazy to 98.1% of the time at Glen Ewen. There are no discernible trends identified at any of the stations.

Figure 20: Esterhazy Nitrogen Dioxide Pollution Rose

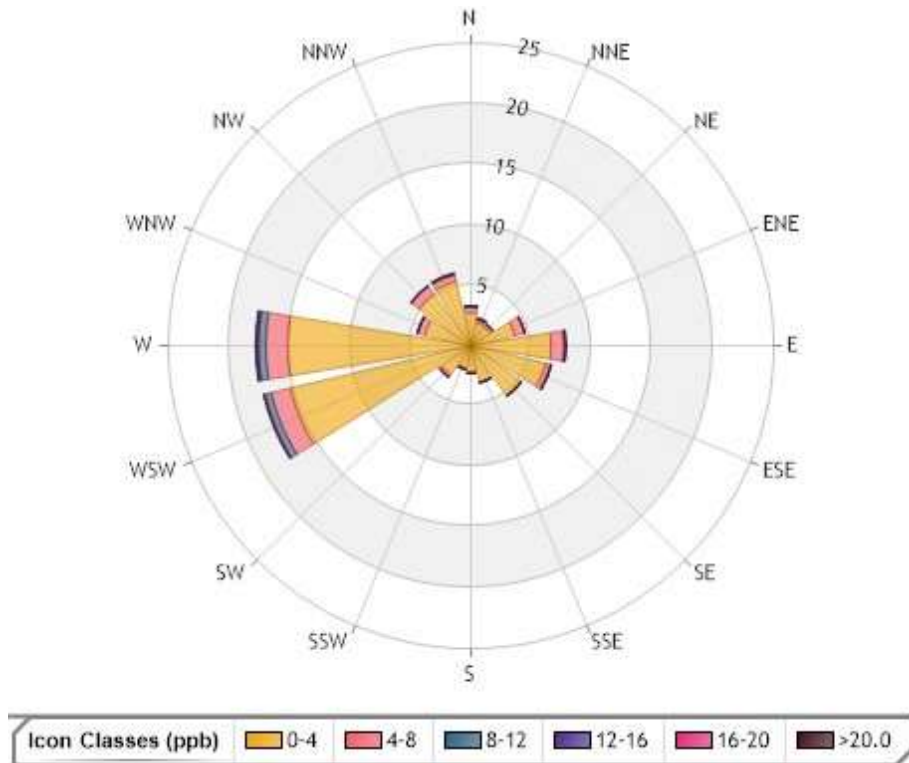


Figure 21: Glen Ewen Nitrogen Dioxide Pollution Rose

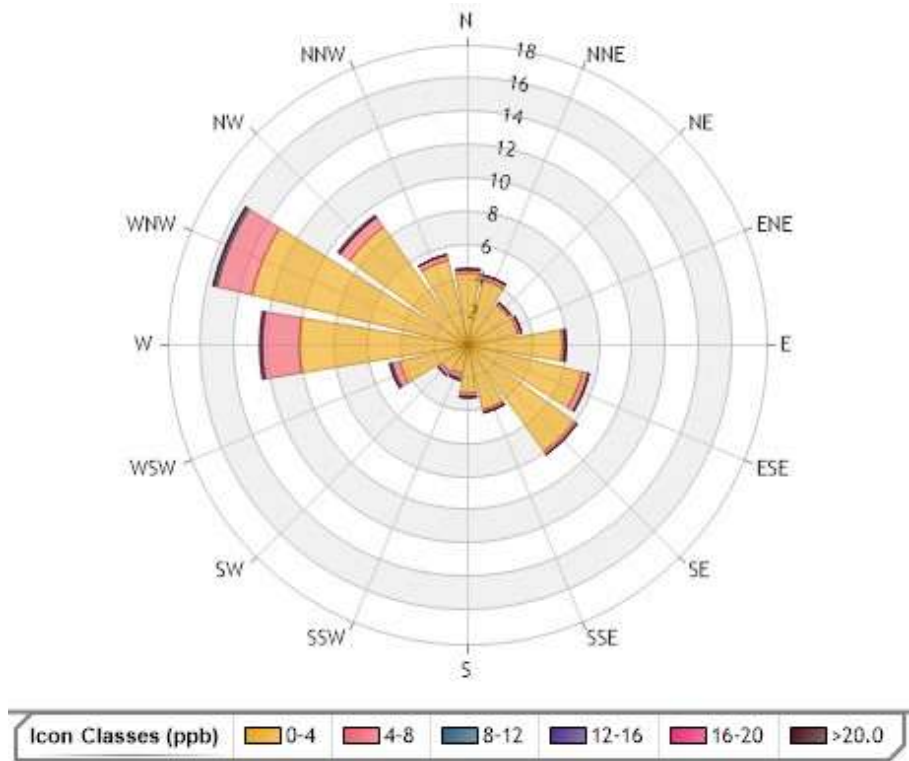


Figure 22: Oxbow Nitrogen Dioxide Pollution Rose

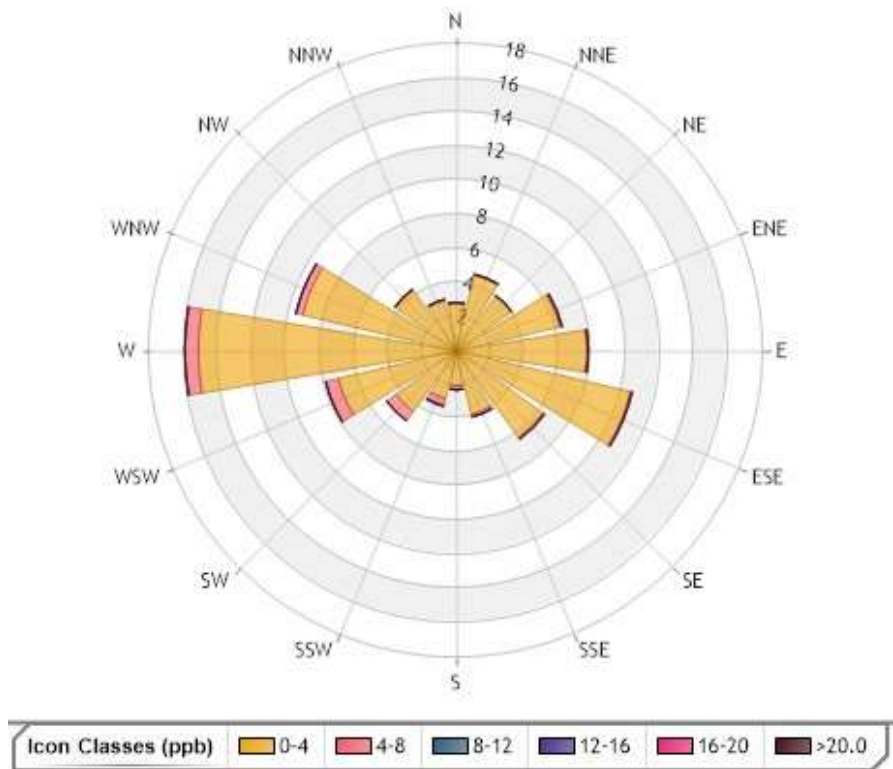


Figure 23: Stoughton Nitrogen Dioxide Pollution Rose

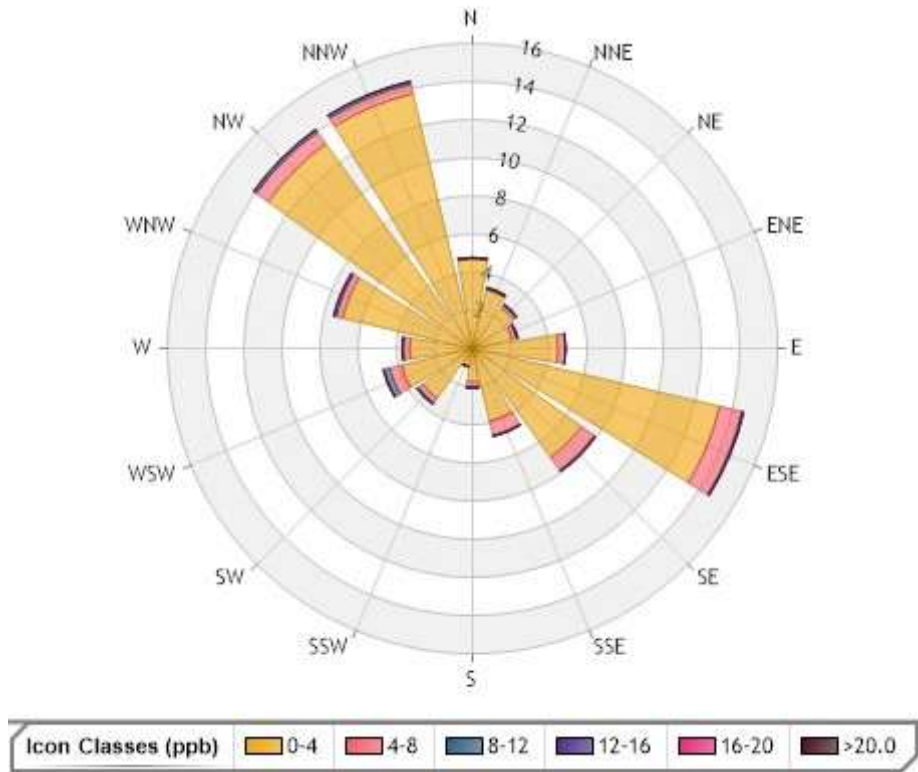
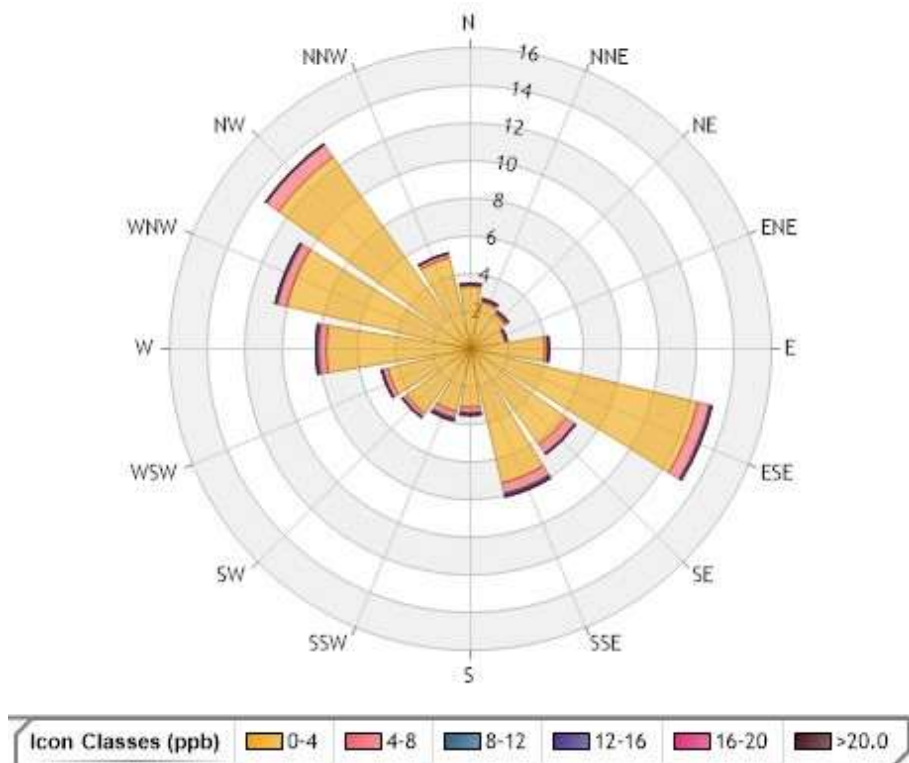


Figure 24: Weyburn Nitrogen Dioxide Pollution Rose



3.4 Ozone

O₃ occurs naturally in the upper atmosphere but can also be formed at ground level. Ground level O₃ is a colourless gas that develops just above the earth’s surface. It is considered a secondary pollutant because it is formed through chemical reactions between NO_x and volatile organic compounds (VOCs) in the presence of sunlight and stagnant air. VOCs can originate through natural sources, such as coniferous forests, and human activities including gasoline combustion, upstream oil and gas production, and from the evaporation of liquid fuels and substances. As outlined in Section 3.3, major sources of NO_x include transportation, fossil-fuelled electric power plants, and the upstream oil and gas industry.

Acute exposure to ground-level O₃ can cause shortness of breath, decreased lung function, and chest discomfort. Long-term exposure has been linked to premature mortality, and various adverse health outcomes. Environmental impacts of O₃ include decreased crop productivity and impacts to vegetation.

The SAAQS for O₃ are:

- 1-hour average = 82 ppb
- 8-hour average = 63 ppb based on the 3-year average of the annual fourth highest daily maximum 8-hour average concentrations.

O₃ is measured at the Esterhazy and Glen Ewen stations. In 2025, the average O₃ concentrations were 29.4 ppb for Esterhazy and 25.4 ppb at Glen Ewen. The highest 1-hour concentration recorded was 69.2 ppb at the Glen Ewen station on May 31, 2025. The maximum 8-hour average was measured on the same day at the Glen Ewen station, reaching 63.8 ppb. There were five exceedances of the 8-hour SAAQS at Glen Ewen. Operational uptimes were 47.3% at Esterhazy and 59.4% at Meadow Lake. Table 9 and Table 10 below show the O₃ monitoring summaries for 2025.

Table 9: Summary of 2025 Ozone Monitoring

Monitoring Station	Annual Average	Instrument Uptime	Maximum Ozone Concentration			
			1-Hour Max.		8 Hour Max.	
	ppb	%	ppb	Time	ppb	Date
Esterhazy	29.4	47.3	54.4	05/27/2025 20:00	54.4	5/27/25 20:00
Glen Ewen	25.4	59.4	69.2	05/31/2025 18:00	63.8	5/25/25 20:00

Red indicates an operational uptime of less than 90%.

ppb = Parts per billion.



Table 10: Summary of 2025 Ozone Exceedances

Monitoring Station	No. of Saskatchewan Ambient Air Quality Standards (SAAQS) Ozone Exceedances	
	1-hr SAAQS	8-hr SAAQS
	82 ppb	63 ppb
Esterhazy	0	0
Glen Ewen	0	5

Pollution roses for O₃ at each of the stations are shown in Figure 25 and Figure 26 below. At each location, most concentrations are between 20 and 40 ppb (73.3 % of the time at Esterhazy and 55.8% at Glen Ewen). Higher concentration events do not appear in a predominant direction at either of the stations.

Figure 25: Esterhazy Ozone Pollution Rose

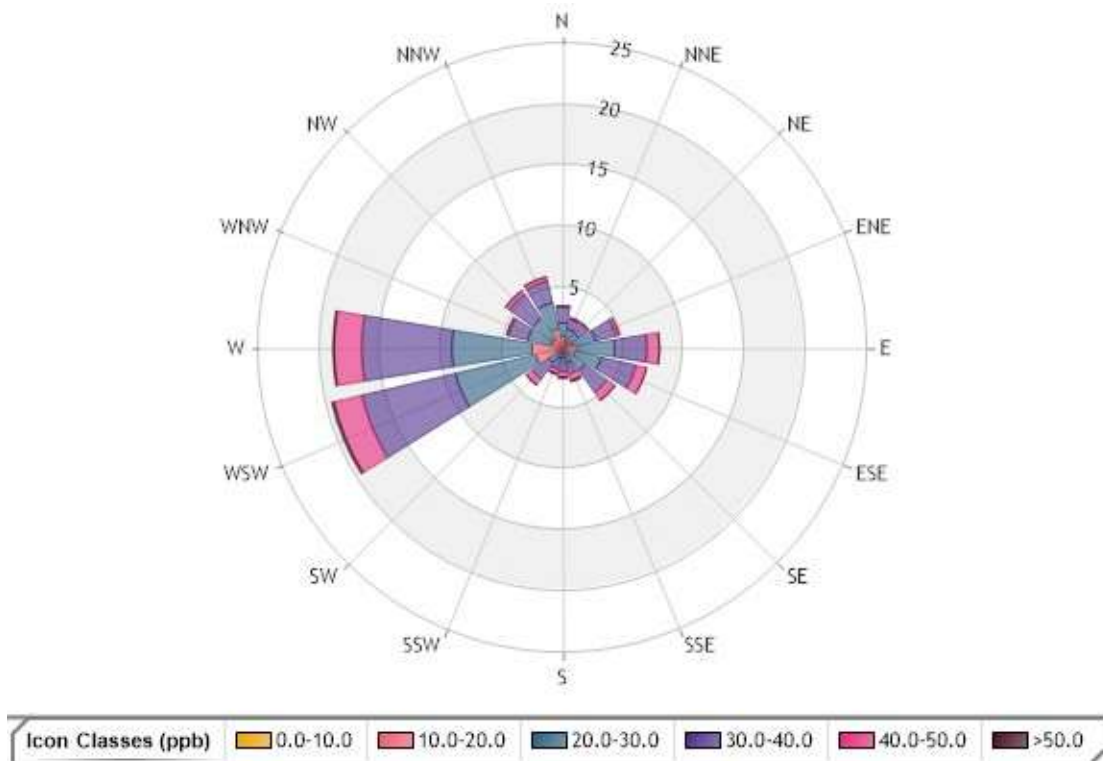
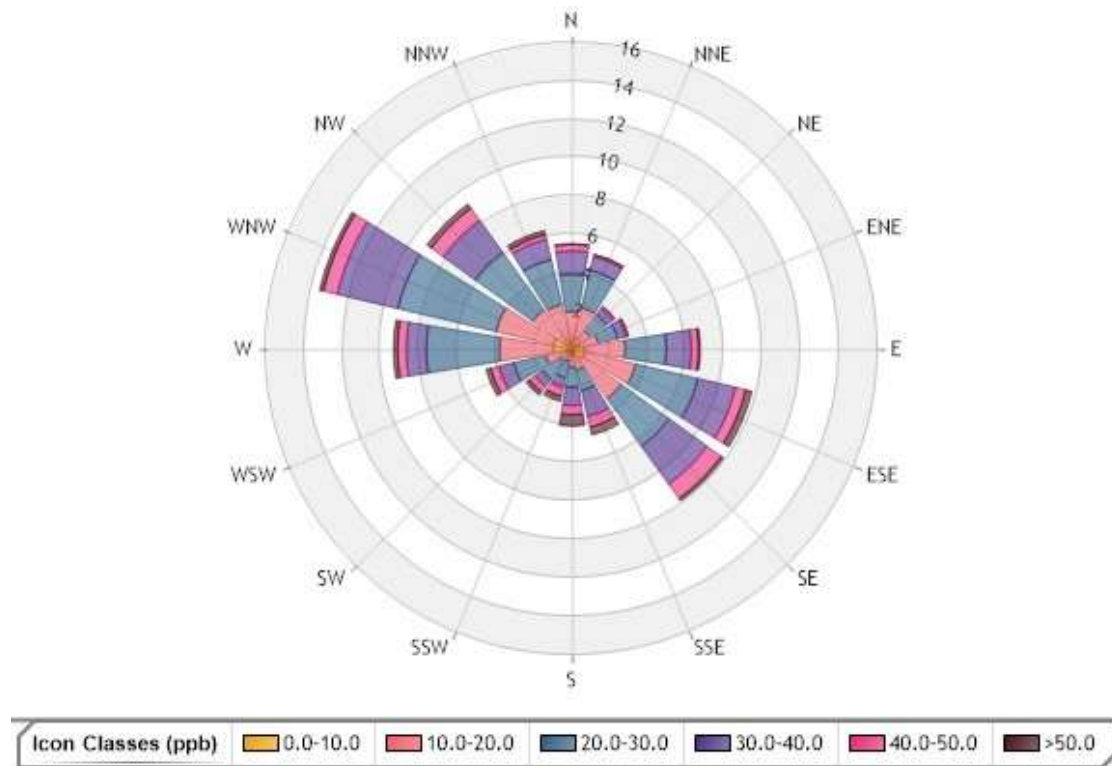


Figure 26: Glen Ewen Ozone Pollution Rose



3.5 Fine Particulate Matter

PM_{2.5} refers to fine particulate matter with a diameter less than 2.5 µm. These particles can vary in size, shape, and density and can originate from different sources such as vehicle and industrial emissions, wood burning, and the erosion of dust from fields. Secondary PM_{2.5} formation can occur from chemical reactions involving gases including SO₂, NO_x, and ammonia.

Exposure to PM_{2.5} is associated with a range of health issues, including shortness of breath, reduced lung function, and the worsening of heart and lung conditions such as asthma. Particulate matter has been linked to cardiac and respiratory diseases including bronchitis, emphysema and multiple forms of heart disease. Environmentally, PM_{2.5} can negatively impact vegetation, and can contribute to visibility problems and atmospheric haze.

The SAAQS for PM_{2.5} are:

- 24-hour average measured from midnight to midnight = 28 µg/m³ based on the 98th percentile annually, averaged over three consecutive years.
- Annual average = 10 µg/m³

PM_{2.5} was measured at Esterhazy, Oxbow, Torquay, Wauchope, and Weyburn in 2025. The average PM_{2.5} concentrations were between 5.6 µg/m³ at Weyburn Station and 17.4 µg/m³ at Esterhazy Station. The highest 1-hour concentration recorded was 541.7 µg/m³ at the Wauchope station on May 31, 2025. The maximum 24-hour average was measured at the Esterhazy station on the same day, reaching 274.5 µg/m³. There were exceedances of the 24-hour SAAQS at each of the stations, with a maximum of 26, 24-hour exceedances at the



Wauchope Station. Operational uptimes were between 16.0% at Esterhazy, and 95.4% at Torquay. Table 11 and Table 12 below show the PM_{2.5} summaries for 2025.

Table 11: Summary of 2025 Fine Particulate Matter Monitoring

Monitoring Station	Annual Average	Instrument Uptime	Maximum Fine Particulate Matter Concentration			
			1-Hour Max.		24 Hour Max.	
	ppb	%	ppb	Time	ppb	Date
Esterhazy	17.4	16.0	481.6	05/30/2025 20:00	274.5	05/31/2025 24:00
Oxbow	8.2	35.0	122.7	09/21/2025 19:00	66.3	08/10/2025 24:00
Torquay	8.3	95.4	242.4	05/30/2025 18:00	111.5	05/31/2025 24:00
Wauchope	16.5	47.6	541.7	05/31/2025 19:00	220.9	05/31/2025 24:00
Weyburn	5.6	48.1	360.0	05/30/2025 16:00	96.1	05/31/2025 24:00

Red indicates an operational uptime of less than 90%.

ppb = Parts per billion.

Table 12: Summary of 2025 Fine Particulate Matter Exceedances

Monitoring Station	No. of Saskatchewan Ambient Air Quality Standards (SAAQS) Fine Particulate Matter Exceedances	
	24-hr SAAQS	Annual SAAQS
	28 ppb	10 ppb
Esterhazy	8	0 ⁽¹⁾
Oxbow	4	0
Torquay	14	0
Wauchope	26	0 ⁽¹⁾
Weyburn	2	0

⁽¹⁾ Esterhazy and Wauchope each reported annual exceedance; however, these were not reported because data completeness was below the 75% criterion and therefore did not meet the reporting requirements.

Pollution roses for PM_{2.5} at each of the stations are shown in Figure 27 to Figure 31 below. The Wauchope pollution rose was developed using wind data from the Glen Ewen station, located approximately 44 km south of Wauchope. Across all locations, PM_{2.5} concentrations were below 5 µg/m³ the majority of the time, with the exception of Wauchope, which had the majority of its data from 5 - 10 µg/m³ (43.7% of the time). Other sites were below 5 µg/m³, from 42.6% of the time at Wauchope to 68.7% of the time at Weyburn. Elevated concentrations (>10 µg/m³) were more common during the summer months (July to September), coinciding with wildfire season. No discernible trends were identified at any of the stations.



Figure 27: Esterhazy Fine Particulate Matter Pollution Rose

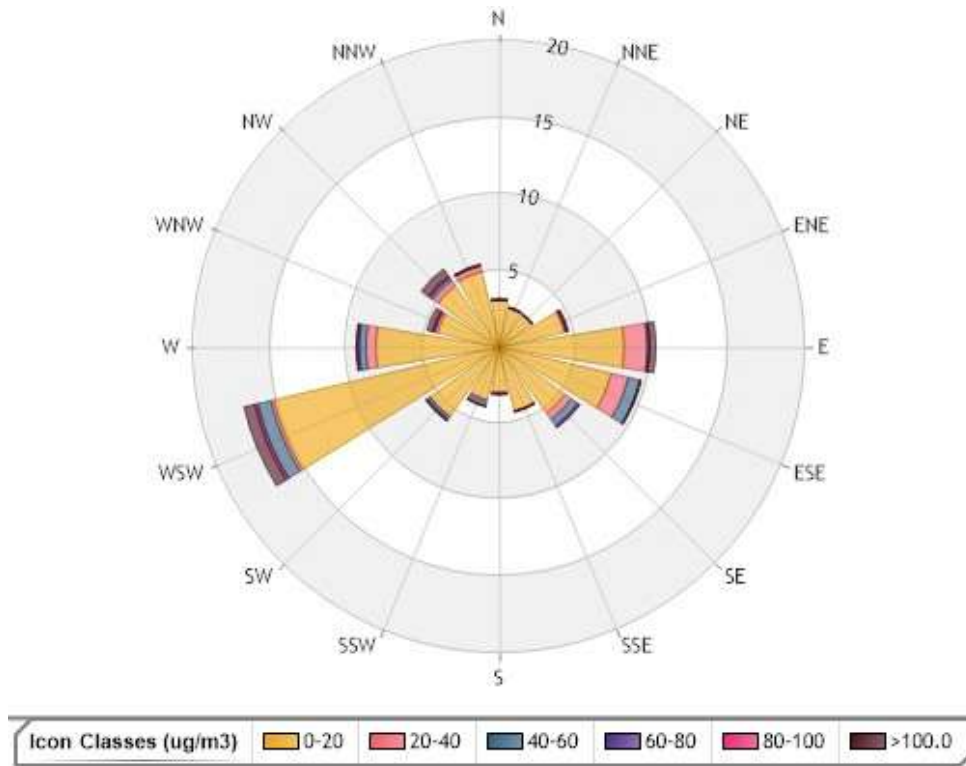


Figure 28: Oxbow Fine Particulate Matter Pollution Rose

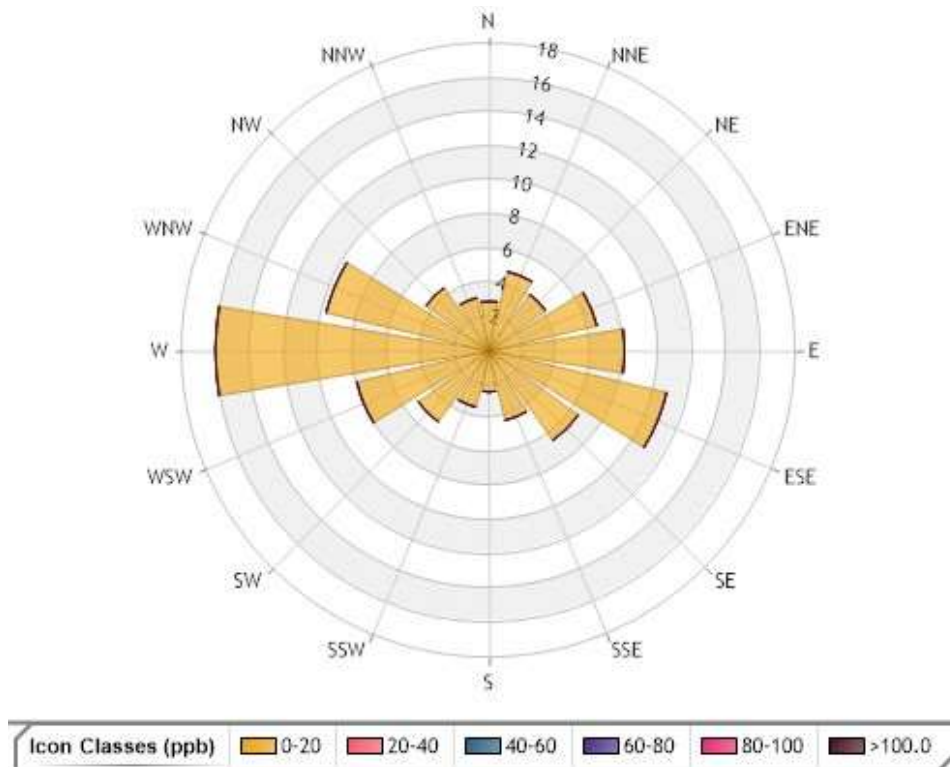


Figure 29: Torquay Fine Particulate Matter Pollution Rose

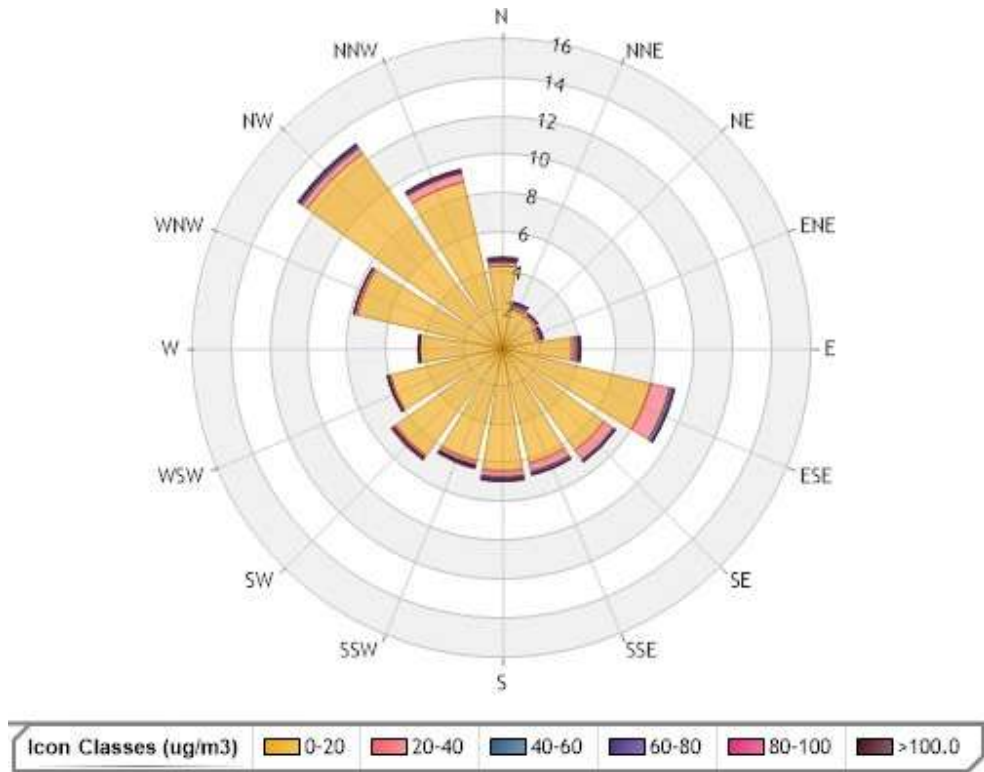


Figure 30: Wauchope Fine Particulate Matter Pollution Rose

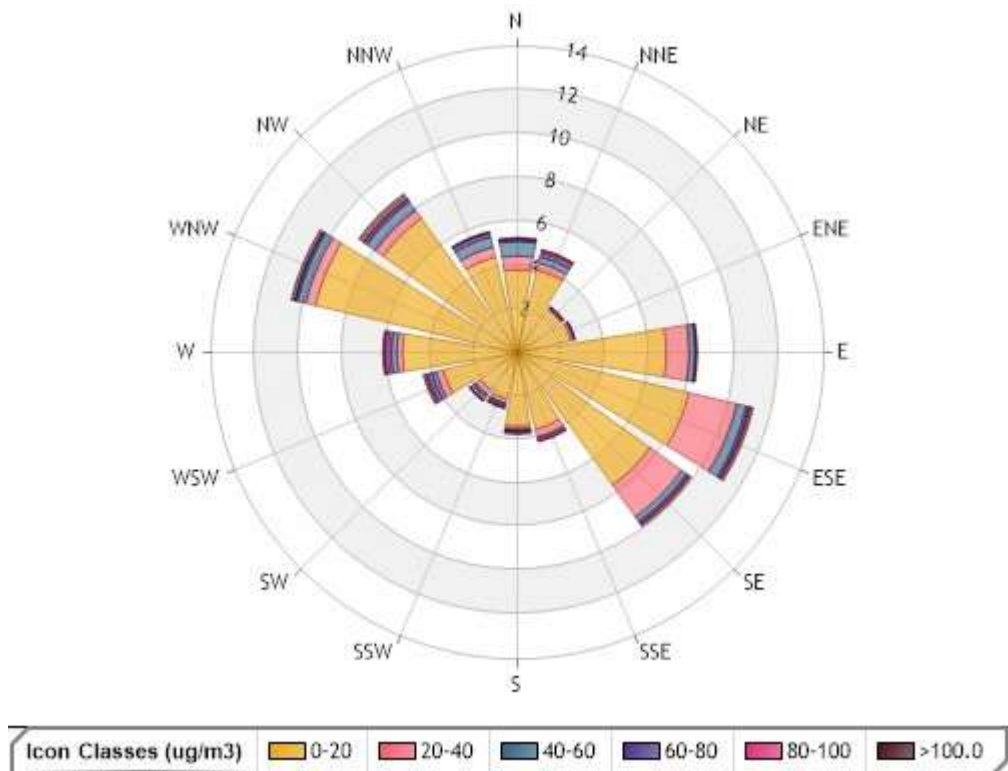
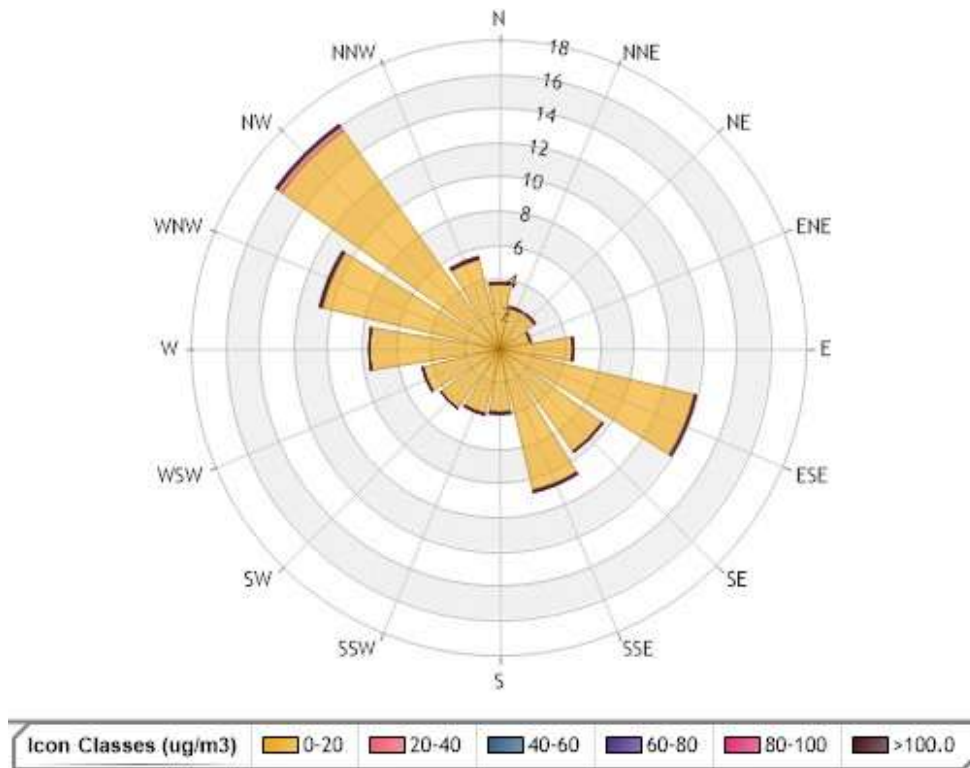


Figure 31: Weyburn Fine Particulate Matter Pollution Rose



4.0 Health Indices

4.1 Air Quality Health Index

Air Quality Health Index (AQHI) is a scale ranging from 1 to 10 designed to help the public make informed decisions about their health by limiting short-term exposure to air pollution and adjusting activity levels during periods of elevated pollution. The AQHI is calculated using three pollutants: O₃, PM_{2.5}, and NO₂. AQHI provides a rating that falls into one of four health risk categories:

- Low Risk (1 to 3)
- Moderate Risk (4 to 6)
- High Risk (7 to 10)
- Very High Risk (greater than 10)

All three pollutants are required to calculate the AQHI.

The health messages associated with each risk category are outlined in Table 13.²

² ECCC. 2018. Understanding Air Quality Health Index Messages. Environment and Climate Change Canada. Last modified November 14, 2018. <https://www.canada.ca/en/environment-climate-change/services/air-quality-health-index/understanding-messages.html>.



AQHI is calculated at the Esterhazy monitoring station. At the Esterhazy station during times in which all parameters were running, approximately 689 hours in 2025, air quality was rated as Low Risk 93.6% of the time. Moderate Risk levels occurred 6.1% of the time, while High Risk levels were observed only 0.3% of the time. Very High Risk Levels were not encountered in 2025. A summary of AQHI monitoring for 2025 can be found in Table 14.

Table 13: Environment Canada Health Risk Classification for Air Quality Health Index (ECCC 2018)

Health Risk	Air Quality Health Index	Health Messages	
		At Risk Population*	General Population
Low	1 - 3	Enjoy your usual outdoor activities.	Ideal air quality for outdoor activities.
Moderate	4 - 6	Consider reducing or rescheduling strenuous activities outdoors if you are experiencing symptoms.	No need to modify your usual outdoor activities unless you experience symptoms such as coughing and throat irritation.
High	7 - 10	Reduce or reschedule strenuous activities outdoors. Children and the elderly should also take it easy.	Consider reducing or rescheduling strenuous activities outdoors if you experience symptoms such as coughing and throat irritation.
Very High	Above 10	Avoid strenuous activities outdoors. Children and the elderly should also avoid outdoor physical exertion.	Reduce or reschedule strenuous activities outdoors, especially if you experience symptoms such as coughing and throat irritation.

* People with heart or breathing problems.

Table 14: Summary of 2025 Air Quality Health Index Monitoring

Station	Occurrence	Low	Moderate	High	Very High
Esterhazy	Hours	645	42	2	0
	Frequency	93.6%	6.1%	0.3%	0.0%

4.2 Air Quality Index

For locations that do not qualify to monitor for AQHI monitoring due to the absence of data for one or more required pollutants (O₃, PM_{2.5}, or NO₂), the Air Quality Index (AQI) can be used as an alternative. AQI is calculated using at least three of the following pollutants:

- O₃
- PM_{2.5}
- SO₂
- NO₂
- Carbon Monoxide (CO)

Similar to AQHI, the AQI is used to communicate outdoor air quality conditions to the public. However, it operates on a 1 to 100 scale, categorized as follows



- Good (1 to 25) - No known harmful effects to soil, water, vegetation, animals, visibility, or human health.
- Fair (26 to 50) - Adequate protection against harmful effects to soil, water, vegetation, animals, material, visibility, and human health.
- Poor (51 to 100) - Not all aspects of the environment are adequately protected from possible adverse effects. Long-term control action may be necessary, depending on the frequency, duration, and circumstances of the readings.
- Very Poor (greater than 100) - In this range, further deterioration of air quality and continued high readings could pose a risk to public health.

AQI was calculated in 2025 at the Glen Ewen and Oxbow Stations for time periods at which all necessary parameters were running, approximately 2296 hours at Glen Ewen, and 2916 hours at Oxbow. Glen Ewen is calculated using NO₂, SO₂, and O₃, while Oxbow is calculated using NO₂, SO₂, and PM_{2.5}. Each station experienced lower risk levels (good to fair) the majority of the time, with lower risk levels occurring 100.0% of the time at Glen Ewen, 84.5% of the time at Oxbow. A summary of the AQI monitoring for 2025 can be found in Table 15.

Table 15: Summary of 2025 Air Quality Index Monitoring

Station	Occurrence	Good	Fair	Poor	Very Poor
Glen Ewen	Hours	1585	711	0	0
	Frequency	69.0%	31.0%	0.0%	0.0%
Oxbow	Hours	1665	799	371	81
	Frequency	57.1%	27.4%	12.7%	2.8%

5.0 Quality Assurance and Quality Control Program

The SESAA contracts SLR Consulting (Canada) Ltd. (SLR) to conduct station maintenance, data validation, and reporting. SLR follows standard operating procedures (i.e., SOPs) and good practices based on current industry standards to ensure that reliable and accurate data is recorded. Data validation procedures are outlined below:

Preliminary Verification (Level 0)

Level 0 data refer to raw data collected directly from the data acquisition system or the instrument itself. During preliminary verification, these data may undergo manual or automated screening and flagging. Common screening checks include:

- Ensuring that instruments are operational and calibrated.
- Identifying periods of missing data.
- Verifying that no instrument faults, malfunctions, or significant data gaps are present.
- Looking for anomalies in data (e.g., spikes or outliers).



2. Primary Validation (Level 1)

This step involves basic quality checks on the collected data to ensure they meet required standards. Actions include:

- Removing obvious errors or corrupted data.
- Applying any necessary calibration factors or corrections.
- Verifying consistency with site conditions (e.g., no sudden jumps or dips inconsistent with expected environmental change).

3. Final Validation (Level 2)

This is a more in-depth review to ensure data integrity and adherence to the requirements.

Key validation steps include:

- Verifying that routine maintenance and calibration logs align with data patterns.
- Reviewing any flagged events or anomalies and determining if they are valid.
- If any data anomalies are found, they are flagged for further investigation.
- Flagged data is typically separated from the validated dataset to ensure transparency.
- Ensuring all documentation (calibration logs, maintenance records, etc.) is available to support the validation process.

6.0 Closure

We trust the information contained in this report meets your needs; however, please contact the individuals noted below with any questions.

Regards,

SLR Consulting (Canada) Ltd.



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Appendix A Saskatchewan Ambient Air Quality Standards

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

TABLE 20: SASKATCHEWAN AMBIENT AIR QUALITY STANDARDS ($\mu\text{g}/\text{m}^3$)

Air Pollutant	1 Hour	8 Hours	24 Hours	Annual
Particulate Matter ($\text{PM}_{2.5}$)			28 ^a	10
Particulate Matter (PM_{10})			50	
Total Suspended Particulates (TSP)			100	60 ^b
Nitrogen Dioxide (NO_2)	300 (159 ppb)		200 (106 ppb)	45 ^c (24 ppb)
Sulphur Dioxide (SO_2)	450 (172 ppb)		125 (48 ppb)	20 ^c (8 ppb)
Hydrogen Sulphide (H_2S)	15 (11 ppb)		5 (3.6 ppb)	
Ozone (O_3)	160 (82 ppb)	124 ^d (63 ppb)		
Carbon Monoxide (CO)	15,000 (13,000 ppb)	6,000 (5,000 ppb)		

Footnotes

- (a) The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations.
- (b) Geometric means
- (c) Arithmetic means
- (d) The 3-year average of the annual 4th-highest daily maximum 8-hour average concentrations.



Appendix B Esterhazy Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table B-1: Esterhazy Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
NO	ppb	4169	47.6	0.5	0.0	18.3
NO2	ppb	4169	47.6	2.5	0.0	27.8
NOx	ppb	4169	47.6	3.0	0.0	42.1
O3	ppb	4143	47.3	29.4	0.6	54.4
PM2.5	µg/m ³	1398	16.0	17.4	0.2	481.6
Precipitation	mm	4975	56.8	0.0	0.0	8.9
Ambient Temperature	°C	4975	56.8	-2.3	-36.3	31.6
Relative Humidity	%	4975	56.8	61.6	13.5	88.5
Wind Speed	m/s	4975	56.8	2.2	0.0	7.0



Table B-2: Summary of NO monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-10	10-50	50-172	> 172
January	707	95.0	0.2	7.5	0.7	-	-	96.5	3.3	0.3	0.0	0.0	0.0
February	644	95.8	0.6	18.3	2.7	-	-	87.3	12.1	0.2	0.5	0.0	0.0
March	713	95.8	0.7	13.3	2.7	-	-	82.9	16.4	0.6	0.1	0.0	0.0
April	685	95.1	0.6	5.5	1.8	-	-	86.3	13.6	0.1	0.0	0.0	0.0
May	555	74.6	0.2	5.0	0.7	-	-	97.7	2.3	0.0	0.0	0.0	0.0
June	257	35.7	0.4	4.8	0.6	-	-	94.6	5.4	0.0	0.0	0.0	0.0
July	0	0.0	-	-	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-	-	-
December	608	81.7	0.5	11.1	1.1	-	-	94.1	5.6	0.2	0.2	0.0	0.0
Annual	4169	47.6	0.5	18.3	2.7	0	0	90.7	8.9	0.2	0.1	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table B-3: Summary of NO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	707	95.0	2.7	24.3	8.1	0	0	89.3	9.6	1.1	0.0	0.0	0.0
February	644	95.8	3.4	27.8	7.5	0	0	84.5	14.8	0.8	0.0	0.0	0.0
March	713	95.8	2.5	24.1	8.6	0	0	93.7	5.5	0.8	0.0	0.0	0.0
April	685	95.1	2.0	13.4	3.9	0	0	94.2	5.8	0.0	0.0	0.0	0.0
May	555	74.6	1.9	10.9	3.9	0	0	95.1	4.9	0.0	0.0	0.0	0.0
June	257	35.7	3.1	11.1	5.2	0	0	85.2	14.8	0.0	0.0	0.0	0.0
July	0	0.0	-	-	-	0	0	-	-	-	-	-	-
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	608	81.7	2.5	21.2	5.7	0	0	91.4	7.9	0.7	0.0	0.0	0.0
Annual	4169	47.6	2.6	27.8	8.6	0	0	90.9	8.5	0.6	0.0	0.0	0.0

¹ 1-hour SAAQS = 159

² 24-hour SAAQS = 106



Table B-4: Summary of NOx monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	707	95.0	2.6	27.6	8.8	-	-	88.3	10.0	1.7	0.0	0.0	0.0
February	644	95.8	4.0	42.1	10.2	-	-	77.5	21.4	1.1	0.0	0.0	0.0
March	713	95.8	3.2	32.8	11.3	-	-	90.3	8.1	1.5	0.0	0.0	0.0
April	685	95.1	2.6	14.7	4.7	-	-	91.1	8.9	0.0	0.0	0.0	0.0
May	555	74.6	2.0	15.6	4.6	-	-	93.9	5.9	0.2	0.0	0.0	0.0
June	257	35.7	3.5	12.0	5.6	-	-	80.9	19.1	0.0	0.0	0.0	0.0
July	0	0.0	-	-	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-	-	-
December	608	81.7	3.0	28.0	6.6	-	-	87.7	11.5	0.8	0.0	0.0	0.0
Annual	4169	47.6	3.0	42.1	11.3	0	0	87.6	11.5	0.9	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table B-5: Summary of O3 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 8-hrs Conc.	1-Hour Exceedance ¹	8-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 10	10-20	20-40	40-65	65-82	>82
January	706	94.9	27.5	41.0	40.3	0	0	2.1	9.9	87.3	0.7	0.0	0.0
February	644	95.8	32.5	47.1	45.1	0	0	0.3	1.9	86.5	11.3	0.0	0.0
March	713	95.8	32.9	52.3	49.5	0	0	0.6	2.5	85.8	11.1	0.0	0.0
April	666	92.5	30.8	52.7	51.3	0	0	1.7	17.6	57.4	23.4	0.0	0.0
May	442	59.4	29.8	54.4	54.4	0	0	3.6	18.3	59.3	18.8	0.0	0.0
June	328	45.6	32.3	53.6	51.7	0	0	0.0	13.4	64.0	22.6	0.0	0.0
July	41	5.5	27.8	40.1	39.9	0	0	0.0	2.4	95.1	2.4	0.0	0.0
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	603	81.0	20.7	34.9	33.4	0	0	5.5	35.2	59.4	0.0	0.0	0.0
Annual	4143	47.3	29.3	54.4	54.4	0	0	2.0	13.4	73.3	11.4	0.0	0.0

¹ 1-hour SAAQS = 82

² 8-hour SAAQS = 63



Table B-6: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	0	0.0	-	-	-	-	0	-	-	-	-	-	-
February	0	0.0	-	-	-	-	0	-	-	-	-	-	-
March	0	0.0	-	-	-	-	0	-	-	-	-	-	-
April	0	0.0	-	-	-	-	0	-	-	-	-	-	-
May	397	53.4	26.0	481.6	274.5	-	2	61.0	25.2	2.3	2.0	2.0	7.6
June	715	99.3	16.7	407.7	124.2	-	5	23.8	37.6	12.3	15.8	8.5	2.0
July	105	14.1	12.1	57.0	31.8	-	1	48.6	24.8	3.8	8.6	14.3	0.0
August	0	0.0	-	-	-	-	0	-	-	-	-	-	-
September	0	0.0	-	-	-	-	0	-	-	-	-	-	-
October	0	0.0	-	-	-	-	0	-	-	-	-	-	-
November	0	0.0	-	-	-	-	0	-	-	-	-	-	-
December	181	24.3	4.0	12.3	8.2	-	0	72.9	25.4	1.7	0.0	0.0	0.0
Annual	1398	16.0	14.7	481.6	274.5	0	8	42.6	31.5	7.4	9.3	6.0	3.1

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table B-7: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	744	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
February	672	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
March	744	100.0	0.4	0.2	0.2	100.0	0.0	0.0	0.0	0.0	0.0
April	720	100.0	1.5	0.4	0.7	100.0	0.0	0.0	0.0	0.0	0.0
May	623	83.7	30.6	8.9	16.8	99.7	0.3	0.0	0.0	0.0	0.0
June	715	99.3	52.7	4.3	12.3	100.0	0.0	0.0	0.0	0.0	0.0
July	105	14.1	1.6	1.6	1.6	100.0	0.0	0.0	0.0	0.0	0.0
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	652	87.6	14.1	4.4	8.0	100.0	0.0	0.0	0.0	0.0	0.0
Annual	4975	56.8	100.8	8.9	16.8	100.0	0.0	0.0	0.0	0.0	0.0



Table B-8: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~ 15	15 ~ 30	>30
January	744	100.0	-14.3	-33.4	-0.4	4.0	44.6	47.8	3.5	0.0	0.0
February	672	100.0	-17.4	-36.3	1.5	9.5	58.3	22.0	10.1	0.0	0.0
March	744	100.0	-5.3	-16.4	2.3	0.0	1.2	83.6	15.2	0.0	0.0
April	720	100.0	3.7	-10.6	11.6	0.0	0.0	29.4	67.6	2.9	0.0
May	623	83.7	12.9	-1.9	20.9	0.0	0.0	1.1	61.8	37.1	0.0
June	715	99.3	16.6	5.6	21.7	0.0	0.0	0.0	40.6	59.4	0.0
July	105	14.1	21.5	9.9	24.9	0.0	0.0	0.0	16.2	77.1	6.7
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	652	87.6	-15.6	-29.6	-1.7	0.0	55.4	40.3	4.3	0.0	0.0
Annual	4975	56.8	0.3	-36.3	24.9	1.9	22.0	32.3	28.4	15.2	0.1



Table B-9: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	744	100.0	65.5	44.8	72.0	0.0	0.0	13.7	86.2	0.1	0.0
February	672	100.0	63.3	36.4	71.2	0.0	0.0	26.6	73.4	0.0	0.0
March	744	100.0	66.8	38.6	77.7	0.0	0.0	20.8	76.1	3.1	0.0
April	720	100.0	58.7	20.6	84.7	0.0	4.9	45.0	41.8	8.3	0.0
May	623	83.7	49.4	13.5	74.6	0.2	23.1	43.2	24.7	8.8	0.0
June	715	99.3	59.6	18.8	82.1	0.0	7.3	40.0	34.7	18.0	0.0
July	105	14.1	57.6	29.5	58.2	0.0	1.0	52.4	39.0	7.6	0.0
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	652	87.6	67.4	50.1	76.8	0.0	0.0	10.7	89.1	0.2	0.0
Annual	4975	56.8	61.1	13.5	84.7	0.0	4.7	28.9	60.8	5.6	0.0



Table B-10: Esterhazy wind frequency table for the year 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	0.90	1.49	0.52	0.20	0.00	0.00	3.11
North North-East	0.62	1.37	0.34	0.00	0.00	0.00	2.33
East North-East	0.62	1.11	0.50	0.20	0.00	0.00	2.43
East North-East	0.76	2.29	0.60	0.44	0.26	0.00	4.35
East	1.87	2.87	1.75	0.66	0.14	0.00	7.29
East South-East	1.65	2.61	1.37	0.76	0.08	0.00	6.47
South-East	0.76	1.91	1.87	0.26	0.08	0.00	4.88
South South-East	0.50	1.27	0.88	0.42	0.00	0.00	3.07
South	0.54	1.09	0.54	0.14	0.00	0.00	2.31
South South-West	0.50	1.31	0.22	0.10	0.04	0.00	2.17
South-West	1.13	1.23	1.15	0.18	0.04	0.00	3.73
West South-West	3.58	6.41	5.07	2.95	0.60	0.20	18.81
West	1.79	5.53	4.72	3.90	0.98	0.22	17.14
West North-West	0.62	1.95	1.49	0.72	0.02	0.00	4.80
North-West	0.56	2.39	2.19	0.92	0.06	0.00	6.12
North North-West	0.66	2.39	1.77	0.88	0.20	0.06	5.96
Summary	17.06	37.22	24.98	12.73	2.50	0.48	94.97

Percentage Calm 4.96%





Appendix C Glen Ewen Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table C-1: Glen Ewen Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	3549	40.5	0.6	0.0	21.2
SO2	ppb	3549	40.5	0.7	0.0	17.5
O3	µg/m ³	5207	59.4	25.4	0.8	69.2
NO	ppb	2296	26.2	0.2	0.0	8.0
NO2	ppb	2296	26.2	1.4	0.0	14.0
NOx	ppb	2296	26.2	1.6	0.0	19.3
Precipitation	mm	8159	93.1	0.0	0.0	16.5
Ambient Temperature	°C	8159	93.1	3.2	-39.9	35.0
Relative Humidity	%	8159	93.1	74.7	18.9	98.6
Wind Speed	m/s	8159	93.1	3.2	0.0	14.3



Table C-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	0	0.0	-	-	-	0	0	-	-	-	-	-	-
February	0	0.0	-	-	-	0	0	-	-	-	-	-	-
March	0	0.0	-	-	-	0	0	-	-	-	-	-	-
April	0	0.0	-	-	-	0	0	-	-	-	-	-	-
May	0	0.0	-	-	-	0	0	-	-	-	-	-	-
June	0	0.0	-	-	-	0	0	-	-	-	-	-	-
July	52	7.0	0.2	1.7	0.3	0	0	96.2	3.8	0.0	0.0	0.0	0.0
August	711	95.6	0.5	3.2	1.3	0	0	90.2	9.8	0.0	0.0	0.0	0.0
September	683	94.9	1.1	2.1	1.5	0	0	35.1	64.9	0.0	0.0	0.0	0.0
October	713	95.8	0.8	14.6	2.0	1	0	66.5	33.2	0.0	0.1	0.0	0.1
November	682	94.7	0.5	21.2	1.4	1	0	97.1	2.8	0.0	0.0	0.0	0.1
December	708	95.2	0.3	2.3	0.9	0	0	97.0	3.0	0.0	0.0	0.0	0.0
Annual	3549	40.5	0.6	21.2	2.0	2	0	77.6	22.3	0.0	0.0	0.0	0.1

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table C-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	0	0.0	-	-	-	0	0	-	-	-	-	-	-
February	0	0.0	-	-	-	0	0	-	-	-	-	-	-
March	0	0.0	-	-	-	0	0	-	-	-	-	-	-
April	0	0.0	-	-	-	0	0	-	-	-	-	-	-
May	0	0.0	-	-	-	0	0	-	-	-	-	-	-
June	0	0.0	-	-	-	0	0	-	-	-	-	-	-
July	52	7.0	0.2	0.7	0.2	0	0	100.0	0.0	0.0	0.0	0.0	0.0
August	711	95.6	0.4	17.5	2.0	0	0	94.4	5.1	0.4	0.1	0.0	0.0
September	683	94.9	0.6	8.6	1.7	0	0	91.7	7.8	0.6	0.0	0.0	0.0
October	713	95.8	0.8	8.6	1.5	0	0	85.3	14.4	0.3	0.0	0.0	0.0
November	682	94.7	1.0	3.4	1.4	0	0	61.4	38.6	0.0	0.0	0.0	0.0
December	708	95.2	0.5	11.1	2.1	0	0	89.8	9.9	0.1	0.1	0.0	0.0
Annual	3549	40.5	0.6	17.5	2.1	0	0	84.9	14.8	0.3	0.1	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table C-4: Summary of O3 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 8-hrs Conc.	1-Hour Exceedance ¹	8-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 10	10-20	20-40	40-65	65-82	>82
January	0	0.0	-	-	-	0	0	-	-	-	-	-	-
February	0	0.0	-	-	-	0	0	-	-	-	-	-	-
March	0	0.0	-	-	-	0	0	-	-	-	-	-	-
April	0	0.0	-	-	-	0	0	-	-	-	-	-	-
May	321	43.1	37.7	69.2	63.8	0	5	0.3	8.4	55.8	32.1	3.4	0.0
June	685	95.1	31.4	64.4	61.4	0	0	1.6	18.1	53.7	26.6	0.0	0.0
July	705	94.8	25.3	59.4	53.2	0	0	8.1	28.7	53.0	10.2	0.0	0.0
August	711	95.6	23.1	50.9	47.2	0	0	10.1	36.4	43.5	10.0	0.0	0.0
September	683	94.9	23.3	59.2	53.8	0	0	13.2	34.4	40.4	12.0	0.0	0.0
October	712	95.7	20.8	46.9	46.8	0	0	10.4	40.3	48.3	1.0	0.0	0.0
November	682	94.7	21.3	40.4	36.2	0	0	8.8	29.9	61.1	0.1	0.0	0.0
December	708	95.2	27.3	41.6	40.2	0	0	0.3	9.3	89.8	0.6	0.0	0.0
Annual	5207	59.4	26.3	69.2	63.8	0	5	7.0	27.0	55.8	10.0	0.2	0.0

¹ 1-hour SAAQS = 82

² 8-hour SAAQS = 63



Table C-5: Summary of NO monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-10	10-50	50-172	> 172
January	0	0.0	-	-	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	194	26.9	0.2	7.7	0.6	-	-	97.9	1.5	0.5	0.0	0.0	0.0
October	712	95.7	0.2	8.0	0.9	-	-	97.2	2.7	0.1	0.0	0.0	0.0
November	682	94.7	0.2	6.1	0.7	-	-	96.9	2.9	0.1	0.0	0.0	0.0
December	708	95.2	0.2	7.5	1.2	-	-	97.3	2.3	0.4	0.0	0.0	0.0
Annual	2296	26.2	0.2	8.0	1.2	0	0	97.2	2.5	0.3	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table C-6: Summary of NO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	0	0.0	-	-	-	0	0	-	-	-	-	-	-
February	0	0.0	-	-	-	0	0	-	-	-	-	-	-
March	0	0.0	-	-	-	0	0	-	-	-	-	-	-
April	0	0.0	-	-	-	0	0	-	-	-	-	-	-
May	0	0.0	-	-	-	0	0	-	-	-	-	-	-
June	0	0.0	-	-	-	0	0	-	-	-	-	-	-
July	0	0.0	-	-	-	0	0	-	-	-	-	-	-
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	194	26.9	1.2	7.4	2.3	0	0	97.9	2.1	0.0	0.0	0.0	0.0
October	712	95.7	1.0	7.9	2.2	0	0	99.0	1.0	0.0	0.0	0.0	0.0
November	682	94.7	1.5	7.5	2.7	0	0	98.1	1.9	0.0	0.0	0.0	0.0
December	708	95.2	1.9	14.0	5.2	0	0	97.2	2.8	0.0	0.0	0.0	0.0
Annual	2296	26.2	1.4	14.0	5.2	0	0	98.1	1.9	0.0	0.0	0.0	0.0

¹ 1-hour SAAQS = 159

² 24-hour SAAQS = 106



Table C-7: Summary of NOx monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	0	0.0	-	-	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	194	26.9	1.3	12.8	2.6	-	-	97.4	2.6	0.0	0.0	0.0	0.0
October	712	95.7	1.1	10.7	2.4	-	-	98.0	2.0	0.0	0.0	0.0	0.0
November	682	94.7	1.6	12.9	3.4	-	-	96.9	3.1	0.0	0.0	0.0	0.0
December	708	95.2	2.1	19.3	6.4	-	-	96.5	3.2	0.3	0.0	0.0	0.0
Annual	2296	26.2	1.5	19.3	6.4	0	0	97.2	2.7	0.1	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table C-8: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	741	99.6	0.3	0.2	0.3	100.0	0.0	0.0	0.0	0.0	0.0
February	672	100.0	0.1	0.1	0.1	100.0	0.0	0.0	0.0	0.0	0.0
March	739	99.3	1.1	0.4	0.7	100.0	0.0	0.0	0.0	0.0	0.0
April	537	74.6	12.9	2.0	7.3	100.0	0.0	0.0	0.0	0.0	0.0
May	346	46.5	7.9	0.7	2.4	100.0	0.0	0.0	0.0	0.0	0.0
June	716	99.4	33.5	12.1	12.3	99.9	0.0	0.1	0.0	0.0	0.0
July	743	99.9	101.4	16.5	30.7	99.2	0.5	0.0	0.3	0.0	0.0
August	742	99.7	40.8	6.1	23.2	99.5	0.5	0.0	0.0	0.0	0.0
September	719	99.9	73.6	11.8	29.4	99.3	0.6	0.1	0.0	0.0	0.0
October	744	100.0	49.6	6.1	28.5	99.9	0.1	0.0	0.0	0.0	0.0
November	720	100.0	0.6	0.4	0.5	100.0	0.0	0.0	0.0	0.0	0.0
December	740	99.5	7.9	1.9	4.3	100.0	0.0	0.0	0.0	0.0	0.0
Annual	8159	93.1	329.6	16.5	30.7	99.8	0.2	0.0	0.0	0.0	0.0



Table C-9: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~15	15 ~ 30	>30
January	741	99.6	-14.5	-34.0	-0.8	6.2	40.1	50.9	2.8	0.0	0.0
February	672	100.0	-17.4	-39.9	2.5	8.5	59.2	21.3	11.0	0.0	0.0
March	739	99.3	-2.7	-13.7	3.5	0.0	0.0	72.0	28.0	0.0	0.0
April	537	74.6	3.7	-9.6	12.9	0.0	0.0	31.1	63.5	5.4	0.0
May	346	46.5	12.0	1.8	19.3	0.0	0.0	0.0	63.3	36.7	0.0
June	716	99.4	16.6	3.5	21.4	0.0	0.0	0.0	39.4	60.3	0.3
July	743	99.9	18.7	6.7	24.8	0.0	0.0	0.0	27.5	70.1	2.4
August	742	99.7	18.3	4.4	24.6	0.0	0.0	0.0	27.8	71.3	0.9
September	719	99.9	15.3	0.4	21.1	0.0	0.0	0.0	48.4	51.2	0.4
October	744	100.0	7.2	-6.5	17.6	0.0	0.0	11.8	75.8	12.4	0.0
November	720	100.0	-1.7	-23.9	8.0	0.0	5.1	48.6	46.3	0.0	0.0
December	740	99.5	-13.6	-27.9	-1.6	0.0	47.8	49.1	3.1	0.0	0.0
Annual	8159	93.1	3.5	-39.9	24.8	1.3	13.3	24.8	34.6	25.7	0.4



Table C-10: Summary of Relative Humidity monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	741	99.6	77.7	65.0	84.7	0.0	0.0	0.0	69.8	30.0	0.3
February	672	100.0	75.3	53.3	84.3	0.0	0.0	1.6	78.3	19.3	0.7
March	739	99.3	77.5	44.4	88.3	0.0	0.0	6.9	44.9	42.1	6.1
April	537	74.6	64.2	18.9	91.1	0.0	5.4	36.1	28.3	20.7	9.5
May	346	46.5	66.6	23.6	91.0	0.0	6.6	28.0	29.8	20.5	15.0
June	716	99.4	68.4	26.4	87.9	0.0	1.3	31.8	32.1	22.5	12.3
July	743	99.9	74.7	29.2	87.4	0.0	0.1	22.2	29.6	23.1	24.9
August	742	99.7	77.3	28.6	94.5	0.0	0.3	17.9	27.6	21.3	32.9
September	719	99.9	75.3	26.7	97.7	0.0	1.3	22.1	26.4	17.0	33.2
October	744	100.0	75.3	31.4	95.0	0.0	0.0	20.4	28.8	30.8	20.0
November	720	100.0	76.9	28.8	88.6	0.0	0.1	9.9	39.3	45.4	5.3
December	740	99.5	80.4	58.8	89.4	0.0	0.0	0.3	48.9	45.5	5.3
Annual	8159	93.1	74.1	18.9	97.7	0.0	0.9	15.5	40.9	28.8	13.9



Table C-11: Wind Frequency Table 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	1.47	1.83	1.09	0.48	0.05	0.10	5.02
North North-East	1.58	1.50	0.81	0.13	0.01	0.04	4.07
East North-East	1.19	1.13	0.43	0.07	0.00	0.00	2.82
East North-East	1.23	1.18	0.47	0.12	0.00	0.00	3.00
East	1.34	2.21	1.51	0.74	0.21	0.12	6.13
East South-East	0.61	1.96	2.33	1.72	0.96	0.85	8.43
South-East	0.44	1.61	2.01	1.81	1.34	0.86	8.07
South South-East	0.37	1.04	0.92	0.78	0.50	0.44	4.05
South	0.54	0.78	0.77	0.51	0.31	0.12	3.03
South South-West	0.49	0.65	0.64	0.23	0.05	0.01	2.07
South-West	0.51	1.09	0.50	0.28	0.05	0.01	2.44
West South-West	0.74	1.70	1.18	0.61	0.25	0.39	4.87
West	1.18	2.24	2.62	2.26	1.26	1.35	10.91
West North-West	0.86	1.79	2.68	2.52	2.39	5.21	15.45
North-West	0.55	1.79	2.14	1.78	1.43	1.69	9.38
North North-West	1.07	1.36	1.37	0.93	0.74	0.61	6.08
Summary	14.17	23.86	21.47	14.97	9.55	11.80	95.82

Percentage Calm 4.19%





Appendix D Oxbow Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table D-1: Oxbow Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	8253	94.2	0.3	0.0	16.2
SO2	ppb	8254	94.2	0.9	0.0	15.7
PM2.5	µg/m ³	3068	35.0	8.2	0.0	122.7
NO	ppb	8278	94.5	0.3	0.0	9.6
NO2	ppb	8278	94.5	1.9	0.0	11.1
NOx	ppb	8278	94.5	2.0	0.0	13.3
Precipitation	mm	4665	53.3	0.1	0.0	15.7
Ambient Temperature	°C	4665	53.3	8.2	-27.6	35.0
Relative Humidity	%	4665	53.3	76.1	22.7	100.0
Wind Speed	m/s	4665	53.3	3.7	0.0	99.1



Table D-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	704	94.6	0.1	1.6	0.5	0	0	99.7	0.3	0.0	0.0	0.0	0.0
February	644	95.8	0.2	1.2	0.9	0	0	98.8	1.2	0.0	0.0	0.0	0.0
March	670	90.1	0.5	2.5	0.9	0	0	98.2	1.8	0.0	0.0	0.0	0.0
April	677	94.0	0.6	2.4	0.9	0	0	94.4	5.6	0.0	0.0	0.0	0.0
May	711	95.6	0.3	16.2	1.7	1	0	98.6	1.0	0.0	0.3	0.0	0.1
June	688	95.6	0.4	1.7	0.7	0	0	95.6	4.4	0.0	0.0	0.0	0.0
July	705	94.8	0.4	3.3	0.9	0	0	92.9	7.1	0.0	0.0	0.0	0.0
August	706	94.9	0.1	1.4	0.3	0	0	98.6	1.4	0.0	0.0	0.0	0.0
September	690	95.8	0.3	6.8	0.7	0	0	98.8	1.0	0.0	0.1	0.0	0.0
October	699	94.0	0.2	2.2	0.5	0	0	99.4	0.6	0.0	0.0	0.0	0.0
November	679	94.3	0.1	1.1	0.5	0	0	99.9	0.1	0.0	0.0	0.0	0.0
December	680	91.4	0.3	4.4	0.8	0	0	99.0	0.9	0.1	0.0	0.0	0.0
Annual	8253	94.2	0.3	16.2	1.7	1	0	97.8	2.1	0.0	0.0	0.0	0.0

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table D-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	704	94.6	1.5	10.5	3.4	0	0	45.9	51.4	2.7	0.0	0.0	0.0
February	644	95.8	1.6	15.4	4.3	0	0	47.5	47.8	3.7	0.9	0.0	0.0
March	670	90.1	1.0	12.6	1.9	0	0	69.1	29.4	1.3	0.1	0.0	0.0
April	677	94.0	0.7	6.9	1.9	0	0	78.4	21.3	0.3	0.0	0.0	0.0
May	711	95.6	0.4	6.6	1.9	0	0	88.7	11.1	0.1	0.0	0.0	0.0
June	688	95.6	0.4	4.4	0.9	0	0	93.0	7.0	0.0	0.0	0.0	0.0
July	705	94.8	0.3	4.4	0.9	0	0	94.6	5.4	0.0	0.0	0.0	0.0
August	706	94.9	0.6	7.0	1.4	0	0	89.2	10.3	0.4	0.0	0.0	0.0
September	690	95.8	0.9	9.0	2.1	0	0	79.6	20.1	0.3	0.0	0.0	0.0
October	699	94.0	0.9	13.8	2.4	0	0	75.7	23.5	0.6	0.3	0.0	0.0
November	680	94.4	1.0	7.2	1.9	0	0	62.5	37.1	0.4	0.0	0.0	0.0
December	680	91.4	1.9	15.7	4.6	0	0	30.9	65.1	3.7	0.3	0.0	0.0
Annual	8254	94.2	0.9	15.7	4.6	0	0	71.5	27.2	1.1	0.1	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table D-4: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	53	7.1	4.0	12.8	3.8	-	0	81.1	13.2	5.7	0.0	0.0	0.0
February	257	38.2	3.9	18.2	4.9	-	0	78.6	16.7	3.1	1.6	0.0	0.0
March	402	54.0	5.5	24.0	9.6	-	0	56.7	31.6	8.2	3.5	0.0	0.0
April	208	28.9	4.3	14.3	5.4	-	0	63.5	33.2	3.4	0.0	0.0	0.0
May	201	27.0	4.7	26.2	9.1	-	0	72.6	18.4	3.5	5.5	0.0	0.0
June	240	33.3	8.4	66.4	13.5	-	0	28.3	46.3	19.2	4.6	1.7	0.0
July	269	36.2	17.5	61.0	38.1	-	2	24.2	26.0	7.4	13.4	29.0	0.0
August	651	87.5	12.7	104.5	66.3	-	2	28.6	35.6	13.2	14.6	6.3	1.7
September	212	29.4	8.5	122.7	17.3	-	0	42.9	28.8	13.7	13.2	0.5	0.9
October	193	25.9	5.4	14.2	7.2	-	0	51.3	37.8	10.9	0.0	0.0	0.0
November	53	7.4	2.3	8.0	3.6	-	0	84.9	15.1	0.0	0.0	0.0	0.0
December	329	44.2	5.5	20.6	8.7	-	0	51.1	36.2	8.8	4.0	0.0	0.0
Annual	3068	35.0	6.9	122.7	66.3	0	4	48.0	31.2	9.4	6.9	4.0	0.4

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table D-5: Summary of NO monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-10	10-50	50-172	> 172
January	704	94.6	0.6	4.5	1.0	-	-	91.2	8.8	0.0	0.0	0.0	0.0
February	644	95.8	0.8	7.0	1.6	-	-	75.9	23.6	0.5	0.0	0.0	0.0
March	671	90.2	0.5	2.2	0.8	-	-	96.0	4.0	0.0	0.0	0.0	0.0
April	677	94.0	0.4	1.7	0.6	-	-	99.0	1.0	0.0	0.0	0.0	0.0
May	711	95.6	0.3	1.1	0.4	-	-	99.6	0.4	0.0	0.0	0.0	0.0
June	688	95.6	0.4	2.2	0.6	-	-	97.2	2.8	0.0	0.0	0.0	0.0
July	705	94.8	0.3	7.6	1.1	-	-	97.7	2.0	0.3	0.0	0.0	0.0
August	706	94.9	0.1	9.6	2.5	-	-	97.3	1.8	0.8	0.0	0.0	0.0
September	690	95.8	0.0	1.0	0.1	-	-	100.0	0.0	0.0	0.0	0.0	0.0
October	699	94.0	0.0	2.5	0.2	-	-	99.7	0.3	0.0	0.0	0.0	0.0
November	679	94.3	0.0	1.6	0.3	-	-	99.6	0.4	0.0	0.0	0.0	0.0
December	704	94.6	0.1	3.0	0.5	-	-	98.6	1.4	0.0	0.0	0.0	0.0
Annual	8278	94.5	0.3	9.6	2.5	0	0	96.1	3.8	0.1	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table D-6: Summary of NO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	704	94.6	2.2	8.1	4.9	0	0	95.9	4.1	0.0	0.0	0.0	0.0
February	644	95.8	2.4	9.8	4.0	0	0	96.4	3.6	0.0	0.0	0.0	0.0
March	671	90.2	1.5	7.9	2.7	0	0	99.7	0.3	0.0	0.0	0.0	0.0
April	677	94.0	1.4	4.5	2.3	0	0	100.0	0.0	0.0	0.0	0.0	0.0
May	711	95.6	2.4	9.4	5.5	0	0	93.5	6.5	0.0	0.0	0.0	0.0
June	688	95.6	3.3	10.7	5.0	0	0	84.9	15.1	0.0	0.0	0.0	0.0
July	705	94.8	2.1	7.5	3.2	0	0	98.3	1.7	0.0	0.0	0.0	0.0
August	706	94.9	1.1	4.4	2.0	0	0	100.0	0.0	0.0	0.0	0.0	0.0
September	690	95.8	1.2	9.9	2.1	0	0	99.9	0.1	0.0	0.0	0.0	0.0
October	699	94.0	1.2	11.1	3.1	0	0	99.1	0.9	0.0	0.0	0.0	0.0
November	679	94.3	1.7	6.8	3.2	0	0	99.1	0.9	0.0	0.0	0.0	0.0
December	704	94.6	2.0	7.7	3.4	0	0	97.2	2.8	0.0	0.0	0.0	0.0
Annual	8278	94.5	1.9	11.1	5.5	0	0	97.0	3.0	0.0	0.0	0.0	0.0

¹ 1-hour SAAQS = 159

² 24-hour SAAQS = 106



Table D-7: Summary of NOx monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	704	94.6	2.7	10.8	5.6	-	-	92.0	8.0	0.0	0.0	0.0	0.0
February	644	95.8	3.2	12.3	5.5	-	-	87.3	12.7	0.0	0.0	0.0	0.0
March	671	90.2	2.0	8.6	3.4	-	-	99.0	1.0	0.0	0.0	0.0	0.0
April	677	94.0	1.8	5.0	2.5	-	-	100.0	0.0	0.0	0.0	0.0	0.0
May	711	95.6	2.6	9.7	5.8	-	-	91.1	8.9	0.0	0.0	0.0	0.0
June	688	95.6	3.6	11.0	5.3	-	-	80.1	19.9	0.0	0.0	0.0	0.0
July	705	94.8	2.3	9.1	3.6	-	-	97.2	2.8	0.0	0.0	0.0	0.0
August	706	94.9	0.9	13.3	3.5	-	-	99.2	0.8	0.0	0.0	0.0	0.0
September	690	95.8	0.9	9.8	1.9	-	-	99.9	0.1	0.0	0.0	0.0	0.0
October	699	94.0	0.8	10.5	2.8	-	-	99.1	0.9	0.0	0.0	0.0	0.0
November	679	94.3	1.3	6.5	3.2	-	-	99.0	1.0	0.0	0.0	0.0	0.0
December	704	94.6	1.7	10.1	3.3	-	-	97.6	2.4	0.0	0.0	0.0	0.0
Annual	8278	94.5	2.0	13.3	5.8	0	0	95.1	4.9	0.0	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table D-8: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	269	37.4	25.3	10.8	15.1	99.3	0.4	0.4	0.0	0.0	0.0
July	744	100.0	73.6	8.5	24.1	99.3	0.7	0.0	0.0	0.0	0.0
August	741	99.6	42.8	10.5	23.5	99.7	0.1	0.1	0.0	0.0	0.0
September	720	100.0	58.1	14.7	26.0	99.7	0.1	0.1	0.0	0.0	0.0
October	731	98.3	79.3	15.7	54.0	99.6	0.1	0.1	0.1	0.0	0.0
November	720	100.0	2.1	0.9	1.6	100.0	0.0	0.0	0.0	0.0	0.0
December	740	99.5	15.9	2.3	6.0	100.0	0.0	0.0	0.0	0.0	0.0
Annual	4665	53.3	297.0	15.7	54.0	99.7	0.2	0.1	0.0	0.0	0.0



Table D-9: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~15	15 ~ 30	>30
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	269	37.4	17.4	6.7	21.0	0.0	0.0	0.0	32.3	67.7	0.0
July	744	100.0	19.0	7.1	25.4	0.0	0.0	0.0	22.3	74.9	2.8
August	741	99.6	18.7	5.0	25.1	0.0	0.0	0.0	22.8	76.4	0.8
September	720	100.0	15.7	2.2	21.2	0.0	0.0	0.0	45.6	54.0	0.4
October	731	98.3	7.5	-4.9	17.8	0.0	0.0	8.5	78.9	12.6	0.0
November	720	100.0	-1.6	-22.1	7.8	0.0	5.0	48.5	46.5	0.0	0.0
December	740	99.5	-13.4	-27.6	-1.8	0.0	47.2	49.9	3.0	0.0	0.0
Annual	4665	53.3	9.0	-27.6	25.4	0.0	8.3	16.7	36.1	38.3	0.6



Table D-10: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	269	37.4	74.1	35.8	87.6	0.0	0.0	22.3	32.7	23.8	21.2
July	744	100.0	71.7	25.9	88.5	0.0	1.5	26.1	35.8	20.0	16.7
August	741	99.6	75.0	25.4	93.7	0.0	1.1	23.6	28.3	17.4	29.6
September	720	100.0	72.6	22.7	99.9	0.0	3.6	26.9	24.2	11.8	33.5
October	731	98.3	73.7	26.6	98.0	0.0	0.7	25.0	28.6	21.6	24.1
November	720	100.0	78.7	24.1	95.0	0.0	0.6	12.6	32.6	27.4	26.8
December	740	99.5	85.5	64.7	96.9	0.0	0.0	0.0	24.1	46.9	29.1
Annual	4665	53.3	75.9	22.7	99.9	0.0	1.2	19.2	29.2	24.2	26.3



Table D-11: Oxbow wind frequency table for the year 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	0.45	1.20	0.90	0.26	0.04	0.06	2.91
North North-East	0.45	1.41	1.11	1.03	0.51	0.11	4.62
East North-East	0.36	1.46	1.05	0.54	0.36	0.30	4.07
East North-East	0.56	1.11	1.65	1.61	0.90	0.58	6.41
East	0.43	1.82	1.84	2.25	0.84	0.64	7.82
East South-East	0.43	2.42	2.92	2.83	1.22	0.86	10.68
South-East	0.30	2.19	1.82	0.90	0.79	0.30	6.30
South South-East	0.47	1.44	0.79	0.47	0.43	0.41	4.01
South	0.26	0.62	0.47	0.64	0.28	0.06	2.33
South South-West	0.19	0.88	1.11	0.64	0.28	0.17	3.27
South-West	0.47	1.39	1.80	0.79	0.24	0.34	5.03
West South-West	0.54	1.46	2.04	1.84	0.90	1.16	7.94
West	0.49	1.61	3.37	3.11	2.42	4.67	15.67
West North-West	0.34	1.31	1.69	1.82	1.84	2.57	9.57
North-West	0.41	0.88	0.92	0.84	0.51	0.84	4.40
North North-West	0.45	1.35	0.54	0.49	0.11	0.06	3.00
Summary	6.60	22.55	24.02	20.06	11.67	13.13	98.03

Percentage Calm 1.93%





Appendix E Stoughton Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table E-1: Stoughton Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	3880	44.3	0.4	0.0	22.4
SO2	ppb	3834	43.8	0.6	0.0	14.7
PM2.5	µg/m ³	0	0.0	-	-	-
NO	ppb	4089	46.7	0.4	0.0	21.5
NO2	ppb	4087	46.7	1.7	0.0	15.9
NOx	ppb	4089	46.7	2.1	0.0	31.0
Precipitation	mm	5481	62.6	0.0	0.0	13.7
Ambient Temperature	°C	5481	62.6	-0.5	-38.6	35.2
Relative Humidity	%	5481	62.6	69.3	15.1	90.2
Wind Speed	m/s	5225	59.6	3.2	0.0	13.8



Table E-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	703	94.5	0.6	1.8	1.2	0	0	64.0	36.0	0.0	0.0	0.0	0.0
February	644	95.8	0.1	4.6	0.4	0	0	99.8	0.0	0.2	0.0	0.0	0.0
March	713	95.8	0.1	1.7	0.3	0	0	99.7	0.3	0.0	0.0	0.0	0.0
April	681	94.6	0.2	1.3	0.5	0	0	99.1	0.9	0.0	0.0	0.0	0.0
May	302	40.6	0.7	22.4	1.6	1	0	86.4	12.9	0.3	0.0	0.0	0.3
June	26	3.6	0.8	2.3	0.0	0	0	69.2	30.8	0.0	0.0	0.0	0.0
July	117	15.7	0.5	3.5	0.0	0	0	88.0	12.0	0.0	0.0	0.0	0.0
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	694	93.3	1.0	2.9	1.6	0	0	51.2	48.8	0.0	0.0	0.0	0.0
Annual	3880	44.3	0.5	22.4	1.6	1	0	82.9	17.0	0.1	0.0	0.0	0.0

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table E-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	703	94.5	1.0	11.4	3.9	0	0	50.1	49.2	0.6	0.1	0.0	0.0
February	644	95.8	0.5	7.9	2.7	0	0	87.0	11.5	1.6	0.0	0.0	0.0
March	713	95.8	0.3	14.7	1.9	0	0	94.8	4.8	0.3	0.1	0.0	0.0
April	681	94.6	0.3	6.2	0.8	0	0	95.6	4.0	0.4	0.0	0.0	0.0
May	302	40.6	0.4	10.4	0.5	0	0	89.7	9.6	0.7	0.0	0.0	0.0
June	26	3.6	0.8	2.4	0.0	0	0	69.2	30.8	0.0	0.0	0.0	0.0
July	117	15.7	0.4	5.6	0.0	0	0	88.0	11.1	0.9	0.0	0.0	0.0
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	648	87.1	1.2	7.9	2.8	0	0	61.0	37.5	1.5	0.0	0.0	0.0
Annual	3834	43.8	0.6	14.7	3.9	0	0	78.9	20.2	0.8	0.1	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table E-4: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	0	0.0	-	-	-	-	0	-	-	-	-	-	-
February	0	0.0	-	-	-	-	0	-	-	-	-	-	-
March	0	0.0	-	-	-	-	0	-	-	-	-	-	-
April	0	0.0	-	-	-	-	0	-	-	-	-	-	-
May	0	0.0	-	-	-	-	0	-	-	-	-	-	-
June	0	0.0	-	-	-	-	0	-	-	-	-	-	-
July	0	0.0	-	-	-	-	0	-	-	-	-	-	-
August	0	0.0	-	-	-	-	0	-	-	-	-	-	-
September	0	0.0	-	-	-	-	0	-	-	-	-	-	-
October	0	0.0	-	-	-	-	0	-	-	-	-	-	-
November	0	0.0	-	-	-	-	0	-	-	-	-	-	-
December	0	0.0	-	-	-	-	0	-	-	-	-	-	-
Annual	0	0.0	-	0.0	0.0	0	0	-	-	-	-	-	-

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table E-5: Summary of NO monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-10	10-50	50-172	> 172
January	704	94.6	0.4	4.2	1.4	-	-	90.6	9.4	0.0	0.0	0.0	0.0
February	644	95.8	0.6	8.0	2.4	-	-	81.4	17.7	0.9	0.0	0.0	0.0
March	713	95.8	0.2	3.8	0.5	-	-	96.4	3.6	0.0	0.0	0.0	0.0
April	681	94.6	0.1	17.5	1.5	-	-	98.7	0.9	0.1	0.3	0.0	0.0
May	460	61.8	0.5	21.5	2.1	-	-	93.9	5.0	0.4	0.7	0.0	0.0
June	292	40.6	0.4	8.8	0.7	-	-	92.1	7.2	0.7	0.0	0.0	0.0
July	7	0.9	0.8	2.9	0.0	-	-	71.4	28.6	0.0	0.0	0.0	0.0
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-	-	-
December	588	79.0	0.7	16.8	2.7	-	-	79.6	18.7	1.2	0.5	0.0	0.0
Annual	4089	46.7	0.5	21.5	2.7	0	0	90.4	9.0	0.4	0.2	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table E-6: Summary of NO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	703	94.5	1.6	12.1	4.3	0	0	97.7	2.3	0.0	0.0	0.0	0.0
February	644	95.8	2.0	15.0	4.5	0	0	96.1	3.9	0.0	0.0	0.0	0.0
March	713	95.8	1.3	11.2	2.5	0	0	99.9	0.1	0.0	0.0	0.0	0.0
April	681	94.6	0.7	7.2	1.4	0	0	99.7	0.3	0.0	0.0	0.0	0.0
May	459	61.7	2.1	13.3	5.4	0	0	93.0	7.0	0.0	0.0	0.0	0.0
June	292	40.6	3.9	14.9	6.2	0	0	72.6	27.4	0.0	0.0	0.0	0.0
July	7	0.9	5.5	11.7	0.0	0	0	71.4	28.6	0.0	0.0	0.0	0.0
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	588	79.0	1.6	15.9	6.7	0	0	90.6	9.2	0.2	0.0	0.0	0.0
Annual	4087	46.7	2.3	15.9	6.7	0	0	94.8	5.2	0.0	0.0	0.0	0.0

¹ 1-hour SAAQS = 159

² 24-hour SAAQS = 106



Table E-7: Summary of NOx monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	704	94.6	2.0	12.6	4.9	-	-	94.7	5.3	0.0	0.0	0.0	0.0
February	644	95.8	2.7	18.3	6.2	-	-	90.1	9.8	0.2	0.0	0.0	0.0
March	713	95.8	1.5	13.9	2.8	-	-	99.3	0.7	0.0	0.0	0.0	0.0
April	681	94.6	0.7	24.5	2.3	-	-	99.3	0.4	0.3	0.0	0.0	0.0
May	460	61.8	2.6	27.0	6.2	-	-	89.8	9.1	1.1	0.0	0.0	0.0
June	292	40.6	4.2	23.6	6.8	-	-	69.2	30.1	0.7	0.0	0.0	0.0
July	7	0.9	6.4	14.5	-	-	-	42.9	57.1	0.0	0.0	0.0	0.0
August	0	0.0	-	-	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-	-	-
December	588	79.0	2.2	31.0	9.0	-	-	87.2	11.7	1.0	0.0	0.0	0.0
Annual	4089	46.7	2.8	31.0	9.0	0	0	92.0	7.6	0.4	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table E-8: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	744	100.0	0.2	0.1	0.1	100.0	0.0	0.0	0.0	0.0	0.0
February	672	100.0	0.3	0.1	0.1	100.0	0.0	0.0	0.0	0.0	0.0
March	744	100.0	6.3	4.0	4.0	100.0	0.0	0.0	0.0	0.0	0.0
April	719	99.9	37.4	4.8	28.8	100.0	0.0	0.0	0.0	0.0	0.0
May	510	68.5	21.0	3.5	7.9	100.0	0.0	0.0	0.0	0.0	0.0
June	709	98.5	44.0	7.4	10.7	99.9	0.1	0.0	0.0	0.0	0.0
July	654	87.9	76.5	13.7	31.4	99.4	0.5	0.2	0.0	0.0	0.0
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	729	98.0	16.4	1.7	6.8	100.0	0.0	0.0	0.0	0.0	0.0
Annual	5481	62.6	201.8	13.7	31.4	99.9	0.1	0.0	0.0	0.0	0.0



Table E-9: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~ 15	15 ~ 30	>30
January	744	100.0	-14.4	-35.1	-1.7	3.5	40.5	55.5	0.5	0.0	0.0
February	672	100.0	-18.2	-38.6	0.7	10.3	57.0	24.6	8.2	0.0	0.0
March	744	100.0	-3.7	-16.8	2.5	0.0	0.7	78.9	20.4	0.0	0.0
April	719	99.9	4.3	-8.4	11.5	0.0	0.0	29.2	63.8	7.0	0.0
May	510	68.5	11.9	-2.0	19.2	0.0	0.0	1.4	66.1	32.4	0.2
June	709	98.5	16.4	4.0	20.4	0.0	0.0	0.0	43.0	57.0	0.0
July	654	87.9	18.5	6.6	25.9	0.0	0.0	0.0	29.7	67.0	3.4
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	729	98.0	-13.5	-30.5	-2.4	0.1	44.3	52.8	2.7	0.0	0.0
Annual	5481	62.6	0.2	-38.6	25.9	1.8	18.5	32.2	27.8	19.3	0.4



Table E-10: Summary of Relative Humidity monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	744	100.0	75.4	64.2	81.2	0.0	0.0	0.0	81.3	18.7	0.0
February	672	100.0	73.3	60.5	83.1	0.0	0.0	0.0	86.6	13.4	0.0
March	744	100.0	77.5	53.7	84.4	0.0	0.0	1.7	55.8	42.5	0.0
April	719	99.9	63.5	20.0	87.4	0.0	4.6	35.0	35.3	25.0	0.0
May	510	68.5	57.0	15.1	82.9	0.0	17.6	32.9	32.7	16.7	0.0
June	709	98.5	59.3	21.1	83.9	0.0	6.1	45.1	29.9	18.9	0.0
July	654	87.9	67.8	22.5	82.0	0.0	1.8	29.7	34.4	33.6	0.5
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	729	98.0	76.5	62.5	84.0	0.0	0.0	0.0	72.8	27.2	0.0
Annual	5481	62.6	68.8	15.1	87.4	0.0	3.2	17.3	54.6	24.8	0.1




Table E-11: Stoughton Wind Frequency Table 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	1.59	2.09	0.63	0.21	0.02	0.00	4.54
North North-East	1.04	1.32	0.29	0.15	0.08	0.02	2.90
East North-East	0.67	1.21	0.36	0.17	0.12	0.19	2.72
East North-East	0.63	0.75	0.59	0.23	0.15	0.25	2.60
East	1.21	1.71	0.81	0.77	0.50	0.23	5.23
East South-East	0.81	3.36	2.95	2.63	2.03	2.55	14.33
South-East	0.77	2.11	2.40	1.42	1.05	0.82	8.57
South South-East	0.58	1.50	1.23	0.61	0.25	0.10	4.27
South	0.54	0.98	0.46	0.08	0.00	0.00	2.06
South South-West	0.38	0.58	0.33	0.10	0.00	0.00	1.39
South-West	0.75	1.19	0.84	0.27	0.21	0.29	3.55
West South-West	0.52	1.04	0.92	0.79	0.44	0.46	4.17
West	0.65	1.00	0.94	0.56	0.21	0.27	3.63
West North-West	0.59	1.82	2.03	1.09	0.81	2.09	8.43
North-West	0.86	1.63	2.55	2.55	2.07	3.36	13.02
North North-West	1.80	3.14	3.01	2.19	1.67	1.94	13.75
Summary	13.39	25.43	20.34	13.82	9.61	12.57	95.16

Percentage Calm 4.89%





Appendix F Torquay Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table F-1: Torquay Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	5496	62.7	0.5	0.0	7.9
SO2	ppb	8247	94.1	0.4	0.0	12.7
PM2.5	µg/m ³	8357	95.4	8.3	0.6	242.4
Precipitation	mm	8688	99.2	0.1	0.0	28.0
Ambient Temperature	°C	8688	99.2	4.5	-39.9	34.7
Relative Humidity	%	8688	99.2	69.2	13.4	93.4
Wind Speed	m/s	8688	99.2	3.9	0.0	14.9



Table F-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	708	95.2	0.2	1.4	0.6	0	0	99.6	0.4	0.0	0.0	0.0	0.0
February	644	95.8	0.3	1.7	1.4	0	0	82.8	17.2	0.0	0.0	0.0	0.0
March	713	95.8	0.2	1.3	0.5	0	0	99.6	0.4	0.0	0.0	0.0	0.0
April	686	95.3	0.6	7.9	1.3	0	0	82.2	17.6	0.0	0.1	0.0	0.0
May	713	95.8	0.7	3.6	1.8	0	0	79.5	20.5	0.0	0.0	0.0	0.0
June	690	95.8	1.0	3.4	1.9	0	0	50.1	49.9	0.0	0.0	0.0	0.0
July	556	74.7	0.5	4.6	1.6	0	0	75.5	24.3	0.2	0.0	0.0	0.0
August	0	0.0	-	-	-	0	0	-	-	-	-	-	-
September	0	0.0	-	-	-	0	0	-	-	-	-	-	-
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	73	10.1	0.0	0.0	0.0	0	0	100.0	0.0	0.0	0.0	0.0	0.0
December	713	95.8	0.3	2.0	1.4	0	0	93.7	6.3	0.0	0.0	0.0	0.0
Annual	5496	62.7	0.4	7.9	1.9	0	0	83.4	16.5	0.0	0.0	0.0	0.0

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table F-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	707	95.0	0.7	5.4	1.7	0	0	81.6	18.2	0.1	0.0	0.0	0.0
February	644	95.8	0.5	7.1	2.7	0	0	87.7	11.8	0.5	0.0	0.0	0.0
March	713	95.8	0.6	2.7	1.2	0	0	92.8	7.2	0.0	0.0	0.0	0.0
April	685	95.1	0.7	12.7	2.3	0	0	85.1	14.3	0.4	0.1	0.0	0.0
May	713	95.8	0.2	3.4	0.7	0	0	98.3	1.7	0.0	0.0	0.0	0.0
June	690	95.8	0.3	3.0	0.9	0	0	98.0	2.0	0.0	0.0	0.0	0.0
July	630	84.7	0.3	9.2	1.8	0	0	94.4	5.1	0.5	0.0	0.0	0.0
August	687	92.3	0.0	1.8	0.4	0	0	98.5	1.5	0.0	0.0	0.0	0.0
September	680	94.4	0.2	6.3	0.6	0	0	96.2	3.4	0.4	0.0	0.0	0.0
October	713	95.8	0.2	8.9	1.6	0	0	97.8	1.7	0.6	0.0	0.0	0.0
November	672	93.3	0.6	2.9	1.2	0	0	90.2	9.8	0.0	0.0	0.0	0.0
December	713	95.8	0.4	4.3	1.3	0	0	95.5	4.5	0.0	0.0	0.0	0.0
Annual	8247	94.1	0.4	12.7	2.7	0	0	93.1	6.7	0.2	0.0	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table F-4: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	744	100.0	3.7	15.0	9.7	-	0	79.7	16.4	3.9	0.0	0.0	0.0
February	644	95.8	3.8	14.1	7.5	-	0	78.4	19.3	2.3	0.0	0.0	0.0
March	740	99.5	4.6	28.0	9.4	-	0	69.9	22.0	5.9	2.2	0.0	0.0
April	720	100.0	4.7	32.7	8.4	-	0	64.0	30.6	4.2	1.1	0.1	0.0
May	743	99.9	11.9	242.4	111.5	-	2	53.7	29.6	5.8	5.1	2.8	3.0
June	720	100.0	14.2	211.4	67.5	-	4	32.5	31.4	12.4	12.8	8.9	2.1
July	739	99.3	15.0	181.0	65.2	-	2	32.5	24.2	14.2	18.0	8.9	2.2
August	444	59.7	18.8	117.5	35.0	-	4	17.3	22.7	17.8	26.8	12.6	2.7
September	717	99.6	11.6	175.7	36.4	-	2	27.5	27.6	23.8	15.9	4.6	0.6
October	743	99.9	5.1	64.8	13.7	-	0	69.2	20.6	5.8	3.5	0.9	0.0
November	661	91.8	4.6	31.6	10.1	-	0	73.1	18.5	5.6	2.6	0.3	0.0
December	742	99.7	5.6	58.7	17.6	-	0	62.5	22.5	8.9	5.9	0.1	0.0
Annual	8357	95.4	8.6	242.4	111.5	0	14	56.0	23.9	9.0	7.3	3.0	0.8

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table F-5: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	744	100.0	0.7	0.6	0.7	100.0	0.0	0.0	0.0	0.0	0.0
February	672	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
March	744	100.0	0.7	0.4	0.6	100.0	0.0	0.0	0.0	0.0	0.0
April	720	100.0	25.5	3.2	18.1	100.0	0.0	0.0	0.0	0.0	0.0
May	743	99.9	119.0	10.0	50.8	99.2	0.8	0.0	0.0	0.0	0.0
June	720	100.0	31.6	4.3	9.6	100.0	0.0	0.0	0.0	0.0	0.0
July	738	99.2	86.4	14.7	20.9	99.2	0.5	0.3	0.0	0.0	0.0
August	740	99.5	57.4	9.9	31.9	99.5	0.5	0.0	0.0	0.0	0.0
September	716	99.4	122.5	28.0	69.7	99.2	0.4	0.1	0.3	0.0	0.0
October	743	99.9	42.3	12.8	21.1	99.7	0.1	0.1	0.0	0.0	0.0
November	664	92.2	1.9	1.3	1.7	100.0	0.0	0.0	0.0	0.0	0.0
December	744	100.0	9.2	3.2	6.6	100.0	0.0	0.0	0.0	0.0	0.0
Annual	8688	99.2	497.3	28.0	69.7	99.7	0.2	0.0	0.0	0.0	0.0



Table F-6: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~15	15 ~ 30	>30
January	744	100.0	-12.8	-33.1	-0.2	1.9	37.0	55.4	5.8	0.0	0.0
February	672	100.0	-17.4	-39.9	1.4	9.5	55.5	23.8	11.2	0.0	0.0
March	744	100.0	-1.8	-13.3	4.1	0.0	0.0	65.1	34.9	0.0	0.0
April	720	100.0	5.4	-9.3	13.5	0.0	0.0	24.0	65.8	10.1	0.0
May	743	99.9	13.1	-2.9	24.0	0.0	0.0	0.8	63.3	33.6	2.3
June	720	100.0	17.1	4.3	21.0	0.0	0.0	0.0	39.7	60.0	0.3
July	738	99.2	18.8	5.3	27.1	0.0	0.0	0.0	25.9	70.3	3.8
August	740	99.5	18.8	2.4	26.2	0.0	0.0	0.0	28.1	70.0	1.9
September	716	99.4	15.8	-0.3	20.8	0.0	0.0	0.7	43.4	55.0	0.8
October	743	99.9	7.6	-5.7	17.3	0.0	0.0	9.8	76.9	13.3	0.0
November	664	92.2	-0.6	-25.4	8.0	0.0	6.3	38.9	54.5	0.3	0.0
December	744	100.0	-11.6	-26.8	-0.2	0.0	37.0	53.0	10.1	0.0	0.0
Annual	8688	99.2	4.4	-39.9	27.1	0.9	11.1	22.6	38.3	26.3	0.8



Table F-7: Summary of Relative Humidity monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	744	100.0	75.9	59.1	82.8	0.0	0.0	0.1	79.8	20.0	0.0
February	672	100.0	74.2	61.3	82.7	0.0	0.0	0.0	88.2	11.8	0.0
March	744	100.0	76.8	47.6	85.7	0.0	0.0	6.0	50.8	41.4	1.7
April	720	100.0	61.3	17.0	89.0	0.0	8.8	36.5	29.6	21.3	3.9
May	743	99.9	58.9	13.4	89.3	0.4	16.0	32.3	24.4	23.7	3.2
June	720	100.0	60.4	21.6	87.2	0.0	6.8	42.5	29.3	19.2	2.2
July	738	99.2	70.3	24.4	83.1	0.0	1.4	28.9	29.1	29.1	11.5
August	740	99.5	68.9	22.9	84.7	0.0	3.6	27.6	29.2	30.9	8.6
September	716	99.4	66.0	19.3	91.1	0.0	8.9	27.0	29.1	21.2	13.8
October	743	99.9	67.5	25.1	90.4	0.0	3.0	27.5	40.5	23.8	5.2
November	664	92.2	72.7	26.4	88.6	0.0	0.6	18.5	44.4	34.2	2.3
December	744	100.0	77.1	56.7	86.5	0.0	0.0	0.5	64.8	34.7	0.0
Annual	8688	99.2	69.2	13.4	91.1	0.0	4.1	20.7	44.7	26.0	4.4



Table F-8: Wind Frequency Table 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	0.24	0.97	0.92	0.96	0.60	0.91	4.60
North North-East	0.26	0.66	0.73	0.44	0.16	0.10	2.35
East North-East	0.30	0.64	0.62	0.39	0.13	0.02	2.10
East North-East	0.45	0.83	0.49	0.16	0.08	0.12	2.13
East	0.49	1.19	0.99	0.52	0.44	0.24	3.87
East South-East	0.54	1.89	2.01	1.50	1.25	1.82	9.01
South-East	0.66	1.93	1.67	1.12	0.94	0.93	7.25
South South-East	0.61	1.54	1.53	1.25	0.87	0.78	6.58
South	0.79	1.98	1.23	0.97	0.93	0.79	6.69
South South-West	0.82	1.80	1.46	1.05	0.64	0.41	6.18
South-West	0.64	1.97	1.53	1.30	0.78	0.64	6.86
West South-West	0.60	1.57	1.42	0.97	0.82	0.74	6.12
West	0.60	1.44	0.79	0.66	0.63	0.40	4.52
West North-West	0.58	1.90	1.44	0.99	0.85	2.14	7.90
North-West	0.59	1.96	2.00	1.86	1.73	4.78	12.92
North North-West	0.46	1.16	1.59	1.81	1.38	3.00	9.40
Summary	8.63	23.43	20.42	15.95	12.23	17.82	98.48

Percentage Calm 1.51%





Appendix G Wauchope Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table G-1: Wauchope Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	5706	65.1	1.2	0.0	45.2
SO2	ppb	7656	87.4	0.6	0.0	26.8
PM2.5	µg/m ³	4173	47.6	16.5	0.0	541.7
Precipitation	mm	0	0.0	-	-	-
Ambient Temperature	°C	0	0.0	-	-	-
Relative Humidity	%	0	0.0	-	-	-
Wind Speed	m/s	0	0.0	-	-	-



Table G-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	689	92.6	0.2	1.2	0.7	0	0	99.7	0.3	0.0	0.0	0.0	0.0
February	641	95.4	0.7	11.9	2.1	1	0	71.0	28.9	0.0	0.0	0.0	0.2
March	713	95.8	0.3	2.8	1.9	0	0	91.6	8.4	0.0	0.0	0.0	0.0
April	532	73.9	0.6	5.8	2.6	0	0	82.0	15.8	2.1	0.2	0.0	0.0
May	713	95.8	0.8	19.6	2.2	2	0	87.5	11.4	0.4	0.1	0.3	0.3
June	689	95.7	1.6	13.0	2.6	3	0	23.4	72.0	2.9	0.9	0.4	0.4
July	638	85.8	2.9	45.2	7.5	38	7	44.2	36.4	4.9	6.0	2.7	6.0
August	703	94.5	2.2	43.4	10.2	31	6	61.6	25.9	2.6	3.6	2.0	4.4
September	388	53.9	1.5	7.1	2.5	0	0	44.3	51.0	2.8	1.8	0.0	0.0
October	0	0.0	-	-	-	0	0	-	-	-	-	-	-
November	0	0.0	-	-	-	0	0	-	-	-	-	-	-
December	0	0.0	-	-	-	0	0	-	-	-	-	-	-
Annual	5706	65.1	1.2	45.2	10.2	75	13	68.4	26.6	1.6	1.4	0.6	1.3

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table G-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	670	90.1	0.6	4.6	2.6	0	0	81.8	18.2	0.0	0.0	0.0	0.0
February	641	95.4	0.9	26.8	5.6	0	0	70.8	27.1	1.1	0.9	0.0	0.0
March	713	95.8	1.0	9.3	1.9	0	0	70.1	29.7	0.1	0.0	0.0	0.0
April	673	93.5	0.8	4.4	1.7	0	0	68.9	31.1	0.0	0.0	0.0	0.0
May	713	95.8	0.5	8.9	1.6	0	0	90.7	9.0	0.3	0.0	0.0	0.0
June	689	95.7	0.7	3.9	1.3	0	0	88.1	11.9	0.0	0.0	0.0	0.0
July	700	94.1	1.0	4.5	1.6	0	0	64.7	35.3	0.0	0.0	0.0	0.0
August	705	94.8	0.3	2.7	1.2	0	0	96.3	3.7	0.0	0.0	0.0	0.0
September	690	95.8	0.5	5.4	1.5	0	0	93.3	6.5	0.1	0.0	0.0	0.0
October	713	95.8	0.5	4.2	1.2	0	0	93.5	6.5	0.0	0.0	0.0	0.0
November	679	94.3	0.2	3.5	0.7	0	0	97.6	2.4	0.0	0.0	0.0	0.0
December	70	9.4	0.2	1.7	0.4	0	0	97.1	2.9	0.0	0.0	0.0	0.0
Annual	7656	87.4	0.6	26.8	5.6	0	0	83.5	16.3	0.1	0.1	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table G-4: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	0	0.0	-	-	-	-	0	-	-	-	-	-	-
February	0	0.0	-	-	-	-	0	-	-	-	-	-	-
March	0	0.0	-	-	-	-	0	-	-	-	-	-	-
April	0	0.0	-	-	-	-	0	-	-	-	-	-	-
May	696	93.5	17.1	541.7	220.9	-	2	16.4	63.6	8.8	4.3	3.4	3.4
June	711	98.8	19.3	500.6	52.2	-	3	5.6	42.1	21.1	20.4	9.0	1.8
July	720	96.8	23.3	196.2	69.7	-	11	4.2	28.3	19.6	21.3	23.8	2.9
August	718	96.5	21.8	232.2	60.2	-	10	7.8	40.4	13.4	16.0	18.4	4.0
September	698	96.9	10.8	83.5	26.8	-	0	12.2	52.4	18.8	13.0	3.4	0.1
October	0	0.0	-	-	-	-	0	-	-	-	-	-	-
November	0	0.0	-	-	-	-	0	-	-	-	-	-	-
December	630	84.7	5.3	36.5	14.2	-	0	50.6	35.2	10.6	3.3	0.2	0.0
Annual	4173	47.6	16.3	541.7	220.9	0	26	15.4	43.7	15.5	13.3	10.0	2.1

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table G-5: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	0	0.0	-	-	-	-	-	-	-	-	-
Annual	0	0.0	-	-	-	-	-	-	-	-	-



Table G-6: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~15	15 ~ 30	>30
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	0	0.0	-	-	-	-	-	-	-	-	-
Annual	0	0.0	-	-	-	-	-	-	-	-	-



Table G-7: Summary of Relative Humidity monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	0	0.0	-	-	-	-	-	-	-	-	-
February	0	0.0	-	-	-	-	-	-	-	-	-
March	0	0.0	-	-	-	-	-	-	-	-	-
April	0	0.0	-	-	-	-	-	-	-	-	-
May	0	0.0	-	-	-	-	-	-	-	-	-
June	0	0.0	-	-	-	-	-	-	-	-	-
July	0	0.0	-	-	-	-	-	-	-	-	-
August	0	0.0	-	-	-	-	-	-	-	-	-
September	0	0.0	-	-	-	-	-	-	-	-	-
October	0	0.0	-	-	-	-	-	-	-	-	-
November	0	0.0	-	-	-	-	-	-	-	-	-
December	0	0.0	-	-	-	-	-	-	-	-	-
Annual	0	0.0	-	-	-	-	-	-	-	-	-



Table G-8: Wind Frequency Table 2025

Month	Percentage of Data within Wind Speed Range (m/s)						
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	Total
North	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North North-East	0.00	0.00	0.00	0.00	0.00	0.00	0.00
East North-East	0.00	0.00	0.00	0.00	0.00	0.00	0.00
East North-East	0.00	0.00	0.00	0.00	0.00	0.00	0.00
East	0.00	0.00	0.00	NA	NA	NA	NA
East South-East	0.00	0.00	0.00	NA	NA	NA	NA
South-East	0.00	0.00	0.00	NA	NA	NA	NA
South South-East	0.00	0.00	0.00	NA	NA	NA	NA
South	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South South-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West South-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West North-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North North-West	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summary	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Percentage Calm 5.14%





Appendix H Weyburn Station: Continuous Monitoring Data

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

Table H-1: Weyburn Station - Summary statistics for continuous air monitoring results for 2025

Parameter	Unit	Operational Time	Uptime	Summary Statistics for Hourly Average Data		
		(Hours)	%	Average	Minimum	Maximum
H2S	ppb	8340	95.2	0.9	0.0	12.8
SO2	ppb	8338	95.2	1.5	0.0	40.3
PM2.5	µg/m ³	4217	48.1	5.6	0.9	360.0
NO	ppb	8102	92.5	0.6	0.0	45.4
NO2	ppb	8102	92.5	1.7	0.0	38.0
NOx	ppb	8102	92.5	2.2	0.0	67.3
Precipitation	mm	8752	99.9	0.0	0.0	24.6
Ambient Temperature	°C	8752	99.9	3.9	-39.4	35.1
Relative Humidity	%	8752	99.9	65.4	12.8	90.3
Wind Speed	m/s	8752	99.9	3.4	0.0	16.3



Table H-2: Summary of H2S monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-3.6	3.6-5	5-8	8-11	>11
January	703	94.5	0.4	10.5	1.3	0	0	95.2	4.6	0.0	0.0	0.3	0.0
February	644	95.8	0.3	5.5	1.1	0	0	93.8	5.7	0.3	0.2	0.0	0.0
March	713	95.8	1.0	12.4	1.8	2	0	70.5	28.6	0.4	0.1	0.0	0.3
April	682	94.7	1.1	12.8	1.9	1	0	40.0	58.7	0.7	0.3	0.1	0.1
May	712	95.7	0.6	2.8	1.1	0	0	89.0	11.0	0.0	0.0	0.0	0.0
June	688	95.6	1.2	4.5	1.9	0	0	36.2	63.5	0.3	0.0	0.0	0.0
July	706	94.9	0.7	8.8	2.7	0	0	74.1	24.6	1.0	0.1	0.1	0.0
August	712	95.7	1.1	12.5	2.9	2	0	67.0	29.9	1.5	0.7	0.6	0.3
September	688	95.6	1.2	7.9	1.9	0	0	35.9	63.5	0.3	0.3	0.0	0.0
October	713	95.8	1.1	12.3	1.7	1	0	45.6	53.9	0.1	0.3	0.0	0.1
November	670	93.1	1.1	10.1	1.7	0	0	46.4	52.8	0.3	0.3	0.1	0.0
December	709	95.3	0.6	7.4	1.2	0	0	87.0	12.7	0.0	0.3	0.0	0.0
Annual	8340	95.2	0.9	12.8	2.9	6	0	65.1	34.1	0.4	0.2	0.1	0.1

¹ 1-hour SAAQS = 11

² 24-hour SAAQS = 3.6



Table H-3: Summary of SO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-11	11-57	57-172	172
January	701	94.2	0.8	13.3	2.5	0	0	84.0	11.8	3.6	0.6	0.0	0.0
February	644	95.8	1.6	29.9	8.8	0	0	69.1	22.5	4.7	3.7	0.0	0.0
March	713	95.8	1.5	39.8	9.1	0	0	73.6	22.2	2.2	2.0	0.0	0.0
April	682	94.7	1.4	26.4	4.1	0	0	52.8	44.4	2.2	0.6	0.0	0.0
May	712	95.7	1.5	29.1	3.3	0	0	64.2	29.5	5.2	1.1	0.0	0.0
June	688	95.6	1.8	16.6	3.9	0	0	29.9	65.4	4.1	0.6	0.0	0.0
July	706	94.9	1.9	11.8	3.0	0	0	0.6	98.0	1.1	0.3	0.0	0.0
August	712	95.7	1.2	12.2	2.4	0	0	66.2	32.0	1.7	0.1	0.0	0.0
September	688	95.6	1.5	18.0	3.5	0	0	57.0	39.7	2.8	0.6	0.0	0.0
October	713	95.8	1.6	18.5	5.5	0	0	53.6	42.1	3.6	0.7	0.0	0.0
November	670	93.1	1.8	40.3	4.8	0	0	48.7	45.8	4.6	0.9	0.0	0.0
December	709	95.3	1.7	18.3	4.8	0	0	61.5	30.3	7.2	1.0	0.0	0.0
Annual	8338	95.2	1.5	40.3	9.1	0	0	55.1	40.3	3.6	1.0	0.0	0.0

¹ 1-hour SAAQS = 172

² 24-hour SAAQS = 48



Table H-4: Summary of PM2.5 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-10	10-15	15-30	30-80	>80
January	739	99.3	3.6	13.7	9.0	-	0	81.6	15.8	2.6	0.0	0.0	0.0
February	634	94.3	3.9	15.7	6.3	-	0	74.3	23.7	1.9	0.2	0.0	0.0
March	744	100.0	4.4	20.8	9.2	-	0	72.0	21.2	5.2	1.5	0.0	0.0
April	718	99.7	3.7	13.6	6.4	-	0	77.7	21.4	0.8	0.0	0.0	0.0
May	744	100.0	10.1	360.0	96.1	-	2	55.0	29.8	6.0	4.2	2.3	2.7
June	9	1.3	82.8	187.9	-	-	0	0.0	0.0	0.0	11.1	55.6	33.3
July	0	0.0	-	-	-	-	0	-	-	-	-	-	-
August	0	0.0	-	-	-	-	0	-	-	-	-	-	-
September	0	0.0	-	-	-	-	0	-	-	-	-	-	-
October	0	0.0	-	-	-	-	0	-	-	-	-	-	-
November	104	14.4	5.9	24.2	10.0	-	0	62.5	21.2	7.7	8.7	0.0	0.0
December	525	70.6	6.8	38.4	12.3	-	0	48.6	32.4	10.3	8.0	0.8	0.0
Annual	4217	48.1	15.2	360.0	96.1	0	2	68.7	23.5	4.3	2.3	0.6	0.5

¹ No 1-hour SAAQS for this parameter

² 24-hour SAAQS = 28



Table H-5: Summary of NO monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 1	1-5	5-10	10-50	50-172	> 172
January	703	94.5	0.1	3.1	0.7	-	-	98.4	1.6	0.0	0.0	0.0	0.0
February	644	95.8	0.4	5.5	1.1	-	-	86.5	13.4	0.2	0.0	0.0	0.0
March	713	95.8	0.1	3.2	0.5	-	-	97.6	2.4	0.0	0.0	0.0	0.0
April	682	94.7	0.1	2.6	0.4	-	-	99.3	0.7	0.0	0.0	0.0	0.0
May	712	95.7	0.5	29.3	2.5	-	-	94.9	4.2	0.6	0.3	0.0	0.0
June	688	95.6	1.1	45.4	5.6	-	-	85.8	10.8	1.2	2.3	0.0	0.0
July	706	94.9	0.5	13.3	1.8	-	-	93.9	5.2	0.4	0.4	0.0	0.0
August	552	74.2	0.7	4.2	1.0	-	-	87.1	12.9	0.0	0.0	0.0	0.0
September	609	84.6	0.8	24.1	2.4	-	-	88.0	11.7	0.0	0.3	0.0	0.0
October	713	95.8	0.7	3.4	1.3	-	-	88.1	11.9	0.0	0.0	0.0	0.0
November	670	93.1	0.8	4.4	1.3	-	-	81.2	18.8	0.0	0.0	0.0	0.0
December	710	95.4	0.8	7.7	1.3	-	-	79.3	20.6	0.1	0.0	0.0	0.0
Annual	8102	92.5	0.6	45.4	5.6	0	0	90.1	9.4	0.2	0.3	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table H-6: Summary of NO2 monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	703	94.5	1.7	11.9	5.7	0	0	96.6	3.4	0.0	0.0	0.0	0.0
February	644	95.8	2.0	11.5	4.2	0	0	96.4	3.6	0.0	0.0	0.0	0.0
March	713	95.8	1.3	7.3	3.1	0	0	99.6	0.4	0.0	0.0	0.0	0.0
April	682	94.7	1.1	4.6	1.6	0	0	100.0	0.0	0.0	0.0	0.0	0.0
May	712	95.7	2.1	38.0	8.9	0	0	89.6	9.6	0.8	0.0	0.0	0.0
June	688	95.6	4.0	30.0	8.5	0	0	75.4	22.2	2.3	0.0	0.0	0.0
July	706	94.9	1.8	17.8	4.3	0	0	94.5	5.2	0.3	0.0	0.0	0.0
August	552	74.2	1.3	7.0	1.7	0	0	99.6	0.4	0.0	0.0	0.0	0.0
September	609	84.6	1.2	12.4	2.1	0	0	99.2	0.8	0.0	0.0	0.0	0.0
October	713	95.8	1.0	8.8	1.9	0	0	99.4	0.6	0.0	0.0	0.0	0.0
November	670	93.1	1.2	5.6	2.1	0	0	99.9	0.1	0.0	0.0	0.0	0.0
December	710	95.4	2.0	9.5	4.0	0	0	96.9	3.1	0.0	0.0	0.0	0.0
Annual	8102	92.5	1.7	38.0	8.9	0	0	95.5	4.2	0.3	0.0	0.0	0.0

¹ 1-hour SAAQS = 159

² 24-hour SAAQS = 106



Table H-7: Summary of NOx monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average 1-hr Conc.	Maximum 1-hr Conc.	Maximum 24-hrs Conc.	1-Hour Exceedance ¹	24-Hour Exceedance ²	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(ppb)	(ppb)	(ppb)	(no.)	(no.)	≤ 5	5-15	15-53	53-100	100-159	>159
January	703	94.5	1.4	12.4	6.1	-	-	96.6	3.4	0.0	0.0	0.0	0.0
February	644	95.8	2.3	11.3	5.0	-	-	93.6	6.4	0.0	0.0	0.0	0.0
March	713	95.8	1.3	7.9	3.5	-	-	98.6	1.4	0.0	0.0	0.0	0.0
April	682	94.7	1.1	4.9	1.6	-	-	100.0	0.0	0.0	0.0	0.0	0.0
May	712	95.7	2.6	67.3	11.4	-	-	87.1	11.1	1.7	0.1	0.0	0.0
June	688	95.6	5.1	65.1	13.7	-	-	69.8	24.7	5.2	0.3	0.0	0.0
July	706	94.9	2.3	22.1	5.4	-	-	92.4	6.4	1.3	0.0	0.0	0.0
August	552	74.2	2.0	8.7	2.5	-	-	96.9	3.1	0.0	0.0	0.0	0.0
September	609	84.6	2.0	30.2	4.3	-	-	97.9	1.6	0.5	0.0	0.0	0.0
October	713	95.8	1.7	10.5	2.7	-	-	98.6	1.4	0.0	0.0	0.0	0.0
November	670	93.1	2.0	7.7	3.4	-	-	97.8	2.2	0.0	0.0	0.0	0.0
December	710	95.4	2.9	10.7	5.0	-	-	90.8	9.2	0.0	0.0	0.0	0.0
Annual	8102	92.5	2.2	67.3	13.7	0	0	93.2	6.0	0.7	0.0	0.0	0.0

¹ No 1-hour SAAQS for this parameter

² No 24-hour SAAQS for this parameter



Table H-8: Summary of Precipitation monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Total Precipitation	Maximum 1-hr Precip.	Maximum 24-hrs Precip.	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(mm)	(mm)	(mm)	≤ 5	5-10	10-15	15-30	30-80	>80
January	740	99.5	0.2	0.1	0.1	100.0	0.0	0.0	0.0	0.0	0.0
February	672	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
March	744	100.0	2.3	1.7	1.8	100.0	0.0	0.0	0.0	0.0	0.0
April	720	100.0	32.2	3.0	27.0	100.0	0.0	0.0	0.0	0.0	0.0
May	744	100.0	85.7	15.3	46.8	99.6	0.3	0.0	0.1	0.0	0.0
June	720	100.0	38.0	3.9	16.3	100.0	0.0	0.0	0.0	0.0	0.0
July	744	100.0	71.0	8.1	17.2	99.3	0.7	0.0	0.0	0.0	0.0
August	744	100.0	54.7	12.6	22.5	99.6	0.3	0.1	0.0	0.0	0.0
September	718	99.7	44.9	24.6	24.6	99.7	0.1	0.0	0.1	0.0	0.0
October	744	100.0	20.6	4.7	15.1	100.0	0.0	0.0	0.0	0.0	0.0
November	720	100.0	2.7	1.4	1.7	100.0	0.0	0.0	0.0	0.0	0.0
December	742	99.7	16.9	2.7	6.0	100.0	0.0	0.0	0.0	0.0	0.0
Annual	8752	99.9	368.9	24.6	46.8	99.9	0.1	0.0	0.0	0.0	0.0



Table H-9: Summary of Ambient Temperature monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Temperature	Minimum 1-hr Temp	Maximum 1-hr Temp	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(°C)	(°C)	(°C)	≤ -30	-30 ~ -15	-15 ~ 0	0 ~15	15 ~ 30	>30
January	740	99.5	-13.3	-32.6	-0.5	2.7	39.5	53.5	4.3	0.0	0.0
February	672	100.0	-18.0	-39.4	1.8	9.4	57.7	22.5	10.4	0.0	0.0
March	744	100.0	-3.0	-15.0	3.4	0.0	0.1	71.9	28.0	0.0	0.0
April	720	100.0	4.9	-8.2	11.9	0.0	0.0	27.8	63.8	8.5	0.0
May	744	100.0	12.9	-2.2	22.4	0.0	0.0	1.2	63.0	34.4	1.3
June	720	100.0	16.6	3.7	21.1	0.0	0.0	0.0	41.8	58.2	0.0
July	744	100.0	18.3	5.7	25.7	0.0	0.0	0.0	32.0	64.4	3.6
August	744	100.0	18.8	3.1	24.7	0.0	0.0	0.0	26.9	71.4	1.7
September	718	99.7	15.6	-1.3	21.3	0.0	0.0	0.7	46.5	51.7	1.1
October	744	100.0	7.0	-6.4	17.3	0.0	0.0	14.5	72.4	13.0	0.0
November	720	100.0	-1.7	-22.6	8.0	0.0	4.7	48.2	47.1	0.0	0.0
December	742	99.7	-12.3	-27.3	-1.1	0.0	40.8	51.8	7.4	0.0	0.0
Annual	8752	99.9	3.8	-39.4	25.7	0.9	11.6	24.4	37.1	25.3	0.7



Table H-10: Summary of Relative Humidity monitoring results for 2025

Month	Valid 1-hr Data	Operational Time	Average Relative Humidity	Minimum 1-hr RH	Maximum 1-hr RH	Percent of Data within Concentration Range (%)					
	(no.)	(%)	(%)	(%)	(%)	≤ 15	15 - 30	30 - 60	60 - 80	80 - 90	>90
January	740	99.5	71.3	57.4	78.6	0.0	0.0	2.2	95.3	2.6	0.0
February	672	100.0	68.8	49.3	78.4	0.0	0.0	5.1	90.8	4.2	0.0
March	744	100.0	73.8	49.7	80.8	0.0	0.0	4.4	77.4	18.1	0.0
April	720	100.0	59.6	15.4	84.3	0.0	7.9	37.6	40.7	13.8	0.0
May	744	100.0	54.9	12.8	84.9	1.2	17.7	34.9	28.0	18.1	0.0
June	720	100.0	58.1	19.5	84.1	0.0	7.8	44.6	30.7	16.9	0.0
July	744	100.0	68.0	22.2	82.8	0.0	2.4	29.8	32.1	35.6	0.0
August	744	100.0	65.1	21.6	82.7	0.0	6.6	30.0	32.8	30.6	0.0
September	718	99.7	61.4	15.5	87.9	0.0	12.3	31.6	29.8	25.5	0.8
October	744	100.0	63.1	22.1	84.5	0.0	5.9	28.8	50.1	15.2	0.0
November	720	100.0	69.3	22.8	82.5	0.0	0.7	20.7	60.3	18.3	0.0
December	742	99.7	71.6	54.4	80.9	0.0	0.0	3.2	84.9	11.9	0.0
Annual	8752	99.9	65.4	12.8	87.9	0.1	5.1	22.8	54.2	17.7	0.1



Table H-11: Wind Frequency Table 2025

Month	Percentage of Data within Wind Speed Range (m/s)						Total
	0.5-1.2	1.2 ~ 2.4	2.4 ~ 3.6	3.6 ~ 4.8	4.8 ~ 6.0	>6.0	
North	0.34	0.72	0.94	0.59	0.43	0.59	3.61
North North-East	0.37	0.79	0.61	0.54	0.26	0.25	2.82
East North-East	0.41	0.71	0.45	0.40	0.32	0.19	2.48
East North-East	0.39	0.59	0.46	0.33	0.19	0.13	2.09
East	0.45	1.29	1.20	0.45	0.40	0.56	4.35
East South-East	1.42	3.72	3.01	1.97	1.31	1.70	13.13
South-East	2.38	3.55	0.85	0.17	0.00	0.00	6.95
South South-East	2.65	3.94	1.34	0.06	0.00	0.00	7.99
South	1.58	1.30	0.50	0.08	0.00	0.00	3.46
South South-West	0.99	1.79	0.81	0.34	0.03	0.00	3.96
South-West	0.78	1.37	1.09	0.71	0.30	0.31	4.56
West South-West	0.69	1.87	0.85	0.43	0.31	0.64	4.79
West	0.81	1.97	1.69	1.28	0.93	1.34	8.02
West North-West	0.73	1.59	2.02	1.46	0.94	3.79	10.53
North-West	0.57	1.31	2.14	1.84	1.93	5.45	13.24
North North-West	0.39	1.14	1.23	0.91	0.78	0.72	5.17
Summary	14.95	27.65	19.19	11.56	8.13	15.67	97.15

Percentage Calm 2.86%





Appendix I Southeast Saskatchewan Airshed Association Exceedance Summary

2025 Annual Report

Southeast Saskatchewan Airshed Association

Southeast Saskatchewan Airshed Association

SLR Project No.: 208.030089.00002

May 7, 2026

1 Hour Exceedance Summary

Station	Pollutant	Date and Time	Concentration	Wind Speed	Wind Direction	Precipitation	NO	NO ₂	NO _x	O ₃	H ₂ S	PM _{2.5}	SO ₂
Glen Ewen	H ₂ S	10/07/2025 10:00	14.6	2.6	157.1	0.0	4.4	4.6	9.0	7.2	14.6	-	0.7
Glen Ewen	H ₂ S	11/04/2025 21:00	21.2	2.7	289.1	0.0	0.4	1.7	2.1	25.5	21.2	-	1.0
Oxbow	H ₂ S	05/22/2025 03:00	16.2	NoData	NoData	NoData	0.5	1.5	1.8	-	16.2	6.2	0.9
Stoughton	H ₂ S	05/23/2025 11:00	22.4	4.6	124.8	0.0	0.1	1.1	1.2	-	22.4	NoData	0.2
Wauchope	H ₂ S	02/22/2025 12:00	11.9	NoData	NoData	NoData	-	-	-	-	11.9	NoData	3.6
Wauchope	H ₂ S	05/26/2025 02:00	19.6	NoData	NoData	NoData	-	-	-	-	19.6	5.2	0.7
Wauchope	H ₂ S	05/27/2025 06:00	13.2	NoData	NoData	NoData	-	-	-	-	13.2	6.4	0.4
Wauchope	H ₂ S	06/01/2025 02:00	13.0	NoData	NoData	NoData	-	-	-	-	13.0	461.2	0.6
Wauchope	H ₂ S	06/16/2025 24:00	11.8	NoData	NoData	NoData	-	-	-	-	11.8	10.0	0.6
Wauchope	H ₂ S	06/17/2025 01:00	11.1	NoData	NoData	NoData	-	-	-	-	11.1	11.6	0.5
Wauchope	H ₂ S	07/02/2025 05:00	11.1	NoData	NoData	NoData	-	-	-	-	11.1	6.1	0.9
Wauchope	H ₂ S	07/04/2025 06:00	15.8	NoData	NoData	NoData	-	-	-	-	15.8	InVld	0.9
Wauchope	H ₂ S	07/08/2025 01:00	15.1	NoData	NoData	NoData	-	-	-	-	15.1	19.6	0.7
Wauchope	H ₂ S	07/08/2025 03:00	19.8	NoData	NoData	NoData	-	-	-	-	19.8	16.2	0.8
Wauchope	H ₂ S	07/08/2025 04:00	16.6	NoData	NoData	NoData	-	-	-	-	16.6	15.4	0.7
Wauchope	H ₂ S	07/08/2025 05:00	38.9	NoData	NoData	NoData	-	-	-	-	38.9	12.4	0.8
Wauchope	H ₂ S	07/08/2025 06:00	24.4	NoData	NoData	NoData	-	-	-	-	24.4	13.5	0.6
Wauchope	H ₂ S	07/08/2025 07:00	12.0	NoData	NoData	NoData	-	-	-	-	12.0	14.9	0.8
Wauchope	H ₂ S	07/16/2025 24:00	19.7	NoData	NoData	NoData	-	-	-	-	19.7	15.9	0.7
Wauchope	H ₂ S	07/17/2025 04:00	40.5	NoData	NoData	NoData	-	-	-	-	40.5	8.5	0.8
Wauchope	H ₂ S	07/17/2025 05:00	45.2	NoData	NoData	NoData	-	-	-	-	45.2	7.1	0.7
Wauchope	H ₂ S	07/17/2025 06:00	34.3	NoData	NoData	NoData	-	-	-	-	34.3	7.5	0.8
Wauchope	H ₂ S	07/17/2025 07:00	28.7	NoData	NoData	NoData	-	-	-	-	28.7	7.3	0.8
Wauchope	H ₂ S	07/19/2025 01:00	14.8	NoData	NoData	NoData	-	-	-	-	14.8	19.9	0.8
Wauchope	H ₂ S	07/19/2025 02:00	16.0	NoData	NoData	NoData	-	-	-	-	16.0	18.2	0.8
Wauchope	H ₂ S	07/19/2025 04:00	12.2	NoData	NoData	NoData	-	-	-	-	12.2	14.4	0.8
Wauchope	H ₂ S	07/19/2025 05:00	18.9	NoData	NoData	NoData	-	-	-	-	18.9	12.9	0.8
Wauchope	H ₂ S	07/19/2025 06:00	21.9	NoData	NoData	NoData	-	-	-	-	21.9	12.4	0.7
Wauchope	H ₂ S	07/19/2025 07:00	11.1	NoData	NoData	NoData	-	-	-	-	11.1	10.7	0.8
Wauchope	H ₂ S	07/24/2025 03:00	24.4	NoData	NoData	NoData	-	-	-	-	24.4	32.7	1.0
Wauchope	H ₂ S	07/24/2025 04:00	21.1	NoData	NoData	NoData	-	-	-	-	21.1	31.8	1.0
Wauchope	H ₂ S	07/24/2025 05:00	24.0	NoData	NoData	NoData	-	-	-	-	24.0	44.8	0.9
Wauchope	H ₂ S	07/24/2025 06:00	28.3	NoData	NoData	NoData	-	-	-	-	28.3	44.4	1.0
Wauchope	H ₂ S	07/24/2025 07:00	22.6	NoData	NoData	NoData	-	-	-	-	22.6	41.2	1.0
Wauchope	H ₂ S	07/24/2025 08:00	15.1	NoData	NoData	NoData	-	-	-	-	15.1	42.3	1.8
Wauchope	H ₂ S	07/26/2025 03:00	12.9	NoData	NoData	NoData	-	-	-	-	12.9	5.5	1.0
Wauchope	H ₂ S	07/26/2025 23:00	13.0	NoData	NoData	NoData	-	-	-	-	13.0	25.9	1.1
Wauchope	H ₂ S	07/28/2025 01:00	15.3	NoData	NoData	NoData	-	-	-	-	15.3	67.5	1.0
Wauchope	H ₂ S	07/28/2025 02:00	33.8	NoData	NoData	NoData	-	-	-	-	33.8	70.8	1.0
Wauchope	H ₂ S	07/28/2025 03:00	17.1	NoData	NoData	NoData	-	-	-	-	17.1	82.5	1.0
Wauchope	H ₂ S	07/28/2025 06:00	12.0	NoData	NoData	NoData	-	-	-	-	12.0	14.2	1.0
Wauchope	H ₂ S	07/29/2025 06:00	12.5	NoData	NoData	NoData	-	-	-	-	12.5	67.4	0.7
Wauchope	H ₂ S	07/30/2025 03:00	13.3	NoData	NoData	NoData	-	-	-	-	13.3	45.7	0.3
Wauchope	H ₂ S	07/30/2025 04:00	17.6	NoData	NoData	NoData	-	-	-	-	17.6	52.6	0.4
Wauchope	H ₂ S	07/30/2025 05:00	18.0	NoData	NoData	NoData	-	-	-	-	18.0	43.1	0.3
Wauchope	H ₂ S	07/30/2025 06:00	16.6	NoData	NoData	NoData	-	-	-	-	16.6	43.9	0.4
Wauchope	H ₂ S	07/30/2025 07:00	15.9	NoData	NoData	NoData	-	-	-	-	15.9	38.9	0.7
Wauchope	H ₂ S	07/30/2025 08:00	12.4	NoData	NoData	NoData	-	-	-	-	12.4	36.3	1.6
Wauchope	H ₂ S	08/06/2025 23:00	15.3	NoData	NoData	NoData	-	-	-	-	15.3	11.8	0.1
Wauchope	H ₂ S	08/07/2025 01:00	11.3	NoData	NoData	NoData	-	-	-	-	11.3	7.7	0.0
Wauchope	H ₂ S	08/07/2025 02:00	29.0	NoData	NoData	NoData	-	-	-	-	29.0	NoData	0.0
Wauchope	H ₂ S	08/07/2025 03:00	30.7	NoData	NoData	NoData	-	-	-	-	30.7	NoData	0.0
Wauchope	H ₂ S	08/07/2025 04:00	43.4	NoData	NoData	NoData	-	-	-	-	43.4	NoData	0.0
Wauchope	H ₂ S	08/07/2025 05:00	40.2	NoData	NoData	NoData	-	-	-	-	40.2	NoData	0.0
Wauchope	H ₂ S	08/07/2025 06:00	39.7	NoData	NoData	NoData	-	-	-	-	39.7	NoData	0.0
Wauchope	H ₂ S	08/07/2025 07:00	25.4	NoData	NoData	NoData	-	-	-	-	25.4	NoData	0.1
Wauchope	H ₂ S	08/15/2025 07:00	12.2	NoData	NoData	NoData	-	-	-	-	12.2	5.8	0.1
Wauchope	H ₂ S	08/19/2025 03:00	12.9	NoData	NoData	NoData	-	-	-	-	12.9	7.0	0.1
Wauchope	H ₂ S	08/19/2025 04:00	13.8	NoData	NoData	NoData	-	-	-	-	13.8	8.2	0.1
Wauchope	H ₂ S	08/19/2025 05:00	11.8	NoData	NoData	NoData	-	-	-	-	11.8	8.6	0.2
Wauchope	H ₂ S	08/19/2025 07:00	19.1	NoData	NoData	NoData	-	-	-	-	19.1	8.3	0.1
Wauchope	H ₂ S	08/22/2025 01:00	16.9	NoData	NoData	NoData	-	-	-	-	16.9	5.4	0.1
Wauchope	H ₂ S	08/22/2025 02:00	21.2	NoData	NoData	NoData	-	-	-	-	21.2	5.7	0.2
Wauchope	H ₂ S	08/22/2025 03:00	14.2	NoData	NoData	NoData	-	-	-	-	14.2	5.9	0.1
Wauchope	H ₂ S	08/25/2025 03:00	14.2	NoData	NoData	NoData	-	-	-	-	14.2	10.3	0.0
Wauchope	H ₂ S	08/29/2025 04:00	14.4	NoData	NoData	NoData	-	-	-	-	14.4	7.5	0.3
Wauchope	H ₂ S	08/29/2025 05:00	17.0	NoData	NoData	NoData	-	-	-	-	17.0	7.6	0.3
Wauchope	H ₂ S	08/29/2025 06:00	15.0	NoData	NoData	NoData	-	-	-	-	15.0	7.4	0.3
Wauchope	H ₂ S	08/29/2025 07:00	16.5	NoData	NoData	NoData	-	-	-	-	16.5	7.3	0.2
Wauchope	H ₂ S	08/29/2025 08:00	11.7	NoData	NoData	NoData	-	-	-	-	11.7	7.4	0.4
Wauchope	H ₂ S	08/30/2025 05:00	12.2	NoData	NoData	NoData	-	-	-	-	12.2	14.8	0.4
Wauchope	H ₂ S	08/30/2025 07:00	12.2	NoData	NoData	NoData	-	-	-	-	12.2	10.6	0.4
Wauchope	H ₂ S	08/31/2025 01:00	26.4	NoData	NoData	NoData	-	-	-	-	26.4	13.2	0.3
Wauchope	H ₂ S	08/31/2025 02:00	23.3	NoData	NoData	NoData	-	-	-	-	23.3	11.6	0.3
Wauchope	H ₂ S	08/31/2025 03:00	18.2	NoData	NoData	NoData	-	-	-	-	18.2	8.3	0.4
Wauchope	H ₂ S	08/31/2025 04:00	22.8	NoData	NoData	NoData	-	-	-	-	22.8	7.7	0.4
Wauchope	H ₂ S	08/31/2025 05:00	35.7	NoData	NoData	NoData	-	-	-	-	35.7	7.0	0.5
Wauchope	H ₂ S	08/31/2025 06:00	16.0	NoData	NoData	NoData	-	-	-	-	16.0	6.6	0.5
Wauchope	H ₂ S	08/31/2025 07:00	19.4	NoData	NoData	NoData	-	-	-	-	19.4	6.7	0.6
Weyburn	H ₂ S	03/12/2025 07:00	11.6	0.4	161.3	0.0	0.0	3.1	3.1	-	11.6	8.5	1.3
Weyburn	H ₂ S	03/19/2025 22:00	12.4	0.9	162.3	0.0	0.0	1.1	1.1	-	12.4	4.9	1.9
Weyburn	H ₂ S	04/20/2025 24:00	12.8	1.8	94.4	0.0	0.0	1.8	1.8	-	12.8	4.3	0.9
Weyburn	H ₂ S	08/06/2025 24:00	12.5	0.9	185.6	0.0	0.4	2.5	2.9	-	12.5	NoData	0.7
Weyburn	H ₂ S	08/07/2025 03:00	11.2	0.8	86.3	0.0	0.7	1.8	2.5	-	11.2	NoData	0.7
Weyburn	H ₂ S	10/22/2025 02:00	12.3	2.1	234.0	0.0	0.7	0.5	1.1	-	12.3	NoData	1.2

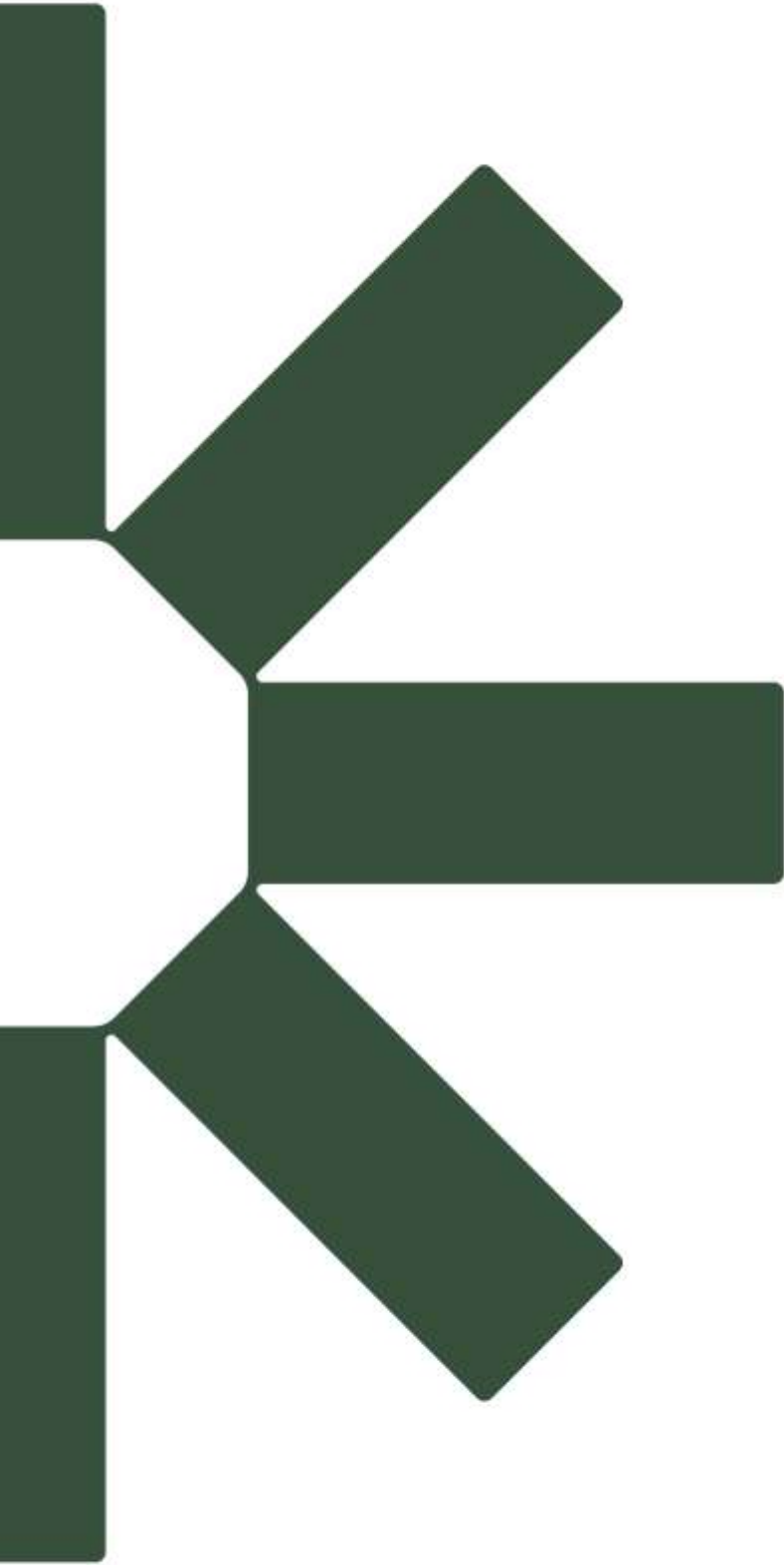


8 Hour Exceedance Summary													
Station	Pollutant	Date and Time	Concentration	Wind Speed	Wind Direction	Precipitation	NO	NO ₂	NOx	H ₂ S	O ₃	PM _{2.5}	SO ₂
Glen Ewen	O3	5/25/25 19:00	63.1	2.9	166.7	0.0	-	-	-	-	63.1	3.4	-
Glen Ewen	O3	5/25/25 20:00	63.8	2.7	165.0	0.0	-	-	-	-	63.8	3.5	-
Glen Ewen	O3	5/25/25 21:00	63.4	2.5	163.7	0.0	-	-	-	-	63.4	5.1	-
Glen Ewen	O3	5/25/25 22:00	63.8	2.3	164.8	0.0	-	-	-	-	63.8	5.9	-
Glen Ewen	O3	5/29/25 20:00	63.4	3.1	193.1	0.0	-	-	-	-	63.4	NA	-



24-Hour													
Station	Pollutant	Date and Time	Concentration	Wind Speed	Wind Direction	Precipitation	NO	NO ₂	NO _x	H ₂ S	O ₃	PM _{2.5}	SO ₂
Wauchope	H ₂ S	07/05/2025 24:00	3.9	NoData	NoData	NoData	-	-	-	3.9	-	6.2	0.9
Wauchope	H ₂ S	07/08/2025 24:00	7.2	NoData	NoData	NoData	-	-	-	7.2	-	15.3	0.9
Wauchope	H ₂ S	07/17/2025 24:00	7.5	NoData	NoData	NoData	-	-	-	7.5	-	14.3	1.1
Wauchope	H ₂ S	07/19/2025 24:00	4.5	NoData	NoData	NoData	-	-	-	4.5	-	18.0	0.9
Wauchope	H ₂ S	07/24/2025 24:00	6.9	NoData	NoData	NoData	-	-	-	6.9	-	32.5	1.5
Wauchope	H ₂ S	07/29/2025 24:00	3.9	NoData	NoData	NoData	-	-	-	3.9	-	54.3	0.7
Wauchope	H ₂ S	07/30/2025 24:00	5.1	NoData	NoData	NoData	-	-	-	5.1	-	35.8	0.3
Wauchope	H ₂ S	08/07/2025 24:00	10.2	NoData	NoData	NoData	-	-	-	10.2	-	<Samp	0.1
Wauchope	H ₂ S	08/19/2025 24:00	4.5	NoData	NoData	NoData	-	-	-	4.5	-	22.6	0.6
Wauchope	H ₂ S	08/22/2025 24:00	3.9	NoData	NoData	NoData	-	-	-	3.9	-	5.5	0.1
Wauchope	H ₂ S	08/29/2025 24:00	5.2	NoData	NoData	NoData	-	-	-	5.2	-	14.4	0.4
Wauchope	H ₂ S	08/30/2025 24:00	4.4	NoData	NoData	NoData	-	-	-	4.4	-	15.0	0.7
Wauchope	H ₂ S	08/31/2025 24:00	7.7	NoData	NoData	NoData	-	-	-	7.7	-	9.5	0.8
Esterhazy	PM _{2.5}	05/30/2025 24:00	80.3	2.1	237.2	0.0	<Samp	<Samp	<Samp	-	<Samp	80.3	-
Esterhazy	PM _{2.5}	05/31/2025 24:00	274.5	1.2	296.4	0.0	NoData	NoData	NoData	-	<Samp	274.5	-
Esterhazy	PM _{2.5}	06/01/2025 24:00	124.2	1.9	235.4	0.0	NoData	NoData	NoData	-	<Samp	124.2	-
Esterhazy	PM _{2.5}	06/10/2025 24:00	50.1	1.8	291.8	0.0	0.4	5.2	5.6	-	<Samp	50.1	-
Esterhazy	PM _{2.5}	06/11/2025 24:00	54.5	0.7	233.5	0.0	<Samp	<Samp	<Samp	-	<Samp	54.5	-
Esterhazy	PM _{2.5}	06/12/2025 24:00	31.5	1.4	99.2	0.0	0.4	3.7	4.1	-	<Samp	31.5	-
Esterhazy	PM _{2.5}	06/13/2025 24:00	28.2	1.8	99.7	0.0	0.4	3.4	3.8	-	33.0	28.2	-
Esterhazy	PM _{2.5}	07/02/2025 24:00	31.8	1.2	154.9	0.0	NoData	NoData	NoData	-	<Samp	31.8	-
Oxbow	PM _{2.5}	07/30/2025 24:00	38.1	2.6	57.3	0.0	<Samp	<Samp	<Samp	<Samp	-	38.1	<Samp
Oxbow	PM _{2.5}	07/31/2025 24:00	34.5	3.7	107.5	0.0	0.0	1.0	0.6	0.1	-	34.5	0.6
Oxbow	PM _{2.5}	08/01/2025 24:00	30.6	3.9	117.4	0.0	0.0	0.8	0.5	0.0	-	30.6	0.6
Oxbow	PM _{2.5}	08/10/2025 24:00	66.3	3.7	253.5	0.0	0.0	1.5	1.2	0.1	-	66.3	0.5
Torquay	PM _{2.5}	05/30/2025 24:00	61.8	3.3	262.2	0.0	-	-	-	1.4	-	61.8	0.5
Torquay	PM _{2.5}	05/31/2025 24:00	111.5	3.2	301.7	0.0	-	-	-	1.8	-	111.5	0.7
Torquay	PM _{2.5}	06/01/2025 24:00	42.7	4.6	268.6	0.0	-	-	-	1.6	-	42.7	0.4
Torquay	PM _{2.5}	06/10/2025 24:00	67.5	4.1	334.6	0.0	-	-	-	1.9	-	67.5	0.7
Torquay	PM _{2.5}	06/11/2025 24:00	53.6	1.9	103.4	0.0	-	-	-	1.4	-	53.6	0.9
Torquay	PM _{2.5}	06/12/2025 24:00	39.7	4.1	108.3	0.0	-	-	-	1.4	-	39.7	0.3
Torquay	PM _{2.5}	07/12/2025 24:00	65.2	2.0	231.0	0.0	-	-	-	0.2	-	65.2	0.1
Torquay	PM _{2.5}	07/30/2025 24:00	40.6	1.8	52.3	0.0	-	-	-	<Samp	-	40.6	0.1
Torquay	PM _{2.5}	08/03/2025 24:00	29.5	2.6	126.4	0.0	-	-	-	NoData	-	29.5	0.0
Torquay	PM _{2.5}	08/20/2025 24:00	29.5	2.1	197.7	0.0	-	-	-	NoData	-	29.5	<Samp
Torquay	PM _{2.5}	08/27/2025 24:00	32.0	2.2	7.8	0.0	-	-	-	NoData	-	32.0	0.0
Torquay	PM _{2.5}	08/28/2025 24:00	35.0	1.4	84.5	0.0	-	-	-	NoData	-	35.0	0.1
Torquay	PM _{2.5}	09/09/2025 24:00	36.4	1.2	5.0	0.0	-	-	-	NoData	-	36.4	0.3
Torquay	PM _{2.5}	09/10/2025 24:00	29.2	2.5	129.5	0.0	-	-	-	NoData	-	29.2	0.2
Wauchope	PM _{2.5}	05/30/2025 24:00	48.5	NoData	NoData	NoData	-	-	-	1.1	-	48.5	1.6
Wauchope	PM _{2.5}	05/31/2025 24:00	220.9	NoData	NoData	NoData	-	-	-	1.8	-	220.9	0.9
Wauchope	PM _{2.5}	06/10/2025 24:00	52.2	NoData	NoData	NoData	-	-	-	1.0	-	52.2	0.5
Wauchope	PM _{2.5}	06/11/2025 24:00	49.4	NoData	NoData	NoData	-	-	-	1.4	-	49.4	0.7
Wauchope	PM _{2.5}	06/12/2025 24:00	37.0	NoData	NoData	NoData	-	-	-	1.9	-	37.0	0.6
Wauchope	PM _{2.5}	07/04/2025 24:00	31.4	NoData	NoData	NoData	-	-	-	3.1	-	31.4	1.0
Wauchope	PM _{2.5}	07/07/2025 24:00	34.1	NoData	NoData	NoData	-	-	-	2.6	-	34.1	0.8
Wauchope	PM _{2.5}	07/11/2025 24:00	69.7	NoData	NoData	NoData	-	-	-	1.0	-	69.7	0.8
Wauchope	PM _{2.5}	07/12/2025 24:00	51.4	NoData	NoData	NoData	-	-	-	1.5	-	51.4	1.4
Wauchope	PM _{2.5}	07/14/2025 24:00	58.9	NoData	NoData	NoData	-	-	-	InVld	-	58.9	1.2
Wauchope	PM _{2.5}	07/23/2025 24:00	32.4	NoData	NoData	NoData	-	-	-	2.0	-	32.4	1.1
Wauchope	PM _{2.5}	07/24/2025 24:00	32.5	NoData	NoData	NoData	-	-	-	6.9	-	32.5	1.5
Wauchope	PM _{2.5}	07/28/2025 24:00	29.8	NoData	NoData	NoData	-	-	-	<Samp	-	29.8	<Samp
Wauchope	PM _{2.5}	07/29/2025 24:00	54.3	NoData	NoData	NoData	-	-	-	3.9	-	54.3	0.7
Wauchope	PM _{2.5}	07/30/2025 24:00	35.8	NoData	NoData	NoData	-	-	-	5.1	-	35.8	0.3
Wauchope	PM _{2.5}	07/31/2025 24:00	34.0	NoData	NoData	NoData	-	-	-	0.5	-	34.0	0.6
Wauchope	PM _{2.5}	08/01/2025 24:00	35.2	NoData	NoData	NoData	-	-	-	0.5	-	35.2	1.2
Wauchope	PM _{2.5}	08/02/2025 24:00	28.4	NoData	NoData	NoData	-	-	-	0.8	-	28.4	0.8
Wauchope	PM _{2.5}	08/04/2025 24:00	44.0	NoData	NoData	NoData	-	-	-	0.9	-	44.0	0.1
Wauchope	PM _{2.5}	08/05/2025 24:00	47.3	NoData	NoData	NoData	-	-	-	0.7	-	47.3	0.1
Wauchope	PM _{2.5}	08/08/2025 24:00	60.2	NoData	NoData	NoData	-	-	-	0.8	-	60.2	0.2
Wauchope	PM _{2.5}	08/09/2025 24:00	39.2	NoData	NoData	NoData	-	-	-	1.1	-	39.2	0.1
Wauchope	PM _{2.5}	08/10/2025 24:00	38.7	NoData	NoData	NoData	-	-	-	0.9	-	38.7	0.2
Wauchope	PM _{2.5}	08/14/2025 24:00	34.3	NoData	NoData	NoData	-	-	-	0.8	-	34.3	0.3
Wauchope	PM _{2.5}	08/20/2025 24:00	52.5	NoData	NoData	NoData	-	-	-	1.0	-	52.5	0.4
Wauchope	PM _{2.5}	08/27/2025 24:00	37.3	NoData	NoData	NoData	-	-	-	2.0	-	37.3	0.5
Weyburn	PM _{2.5}	05/30/2025 24:00	50.9	3.8	277.1	0.0	2.2	7.1	9.3	1.0	-	50.9	2.8
Weyburn	PM _{2.5}	05/31/2025 24:00	96.1	3.1	288.5	0.0	2.5	8.9	11.4	1.1	-	96.1	1.4





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