

## DURHAM YORK ENERGY CENTRE COURTICE, ONTARIO

### 2025 Q4 AMBIENT AIR QUALITY MONITORING REPORT

RWDI #2600650

February 13, 2026

#### SUBMITTED TO

**The Director of Waste Management  
Services**

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# 1 INTRODUCTION

RWDI AIR Inc. (RWDI) was retained by Durham Region and York Region (the Regions) to conduct discrete and continuous air quality ambient monitoring at the Durham York Energy Centre (DYEC) monitoring stations. The facility address is 1835 Energy Drive, Clarington, Ontario. The DYEC is a facility that manages post diversion municipal solid waste from Durham Region and York Region to create energy from waste combustion. Commercial operation of the DYEC commenced on February 1, 2016. The site location is shown below in **Figure 1**.

Condition 11 of the Environmental Assessment Notice of Approval and Condition 7(4) of the Environmental Compliance Approval (ECA) requires ambient air monitoring to be undertaken by the DYEC. An Ambient Air Monitoring and Reporting Plan was prepared and approved by the Ministry of Environment, Conservation and Parks (MECP) to satisfy these conditions. Two (2) monitoring stations were established to monitor ambient air quality around the DYEC and quantify the background ambient air quality levels and DYEC contributed emissions to ambient air quality levels.

This monitoring plan was developed based on the Regional Council mandate to provide ambient monitoring in the area of the DYEC. The purposes of the ambient monitoring program are to:

- Quantify any measurable ground level concentrations resulting from emissions from the DYEC cumulative to local air quality, including validating the predicted concentrations from the dispersion modelling conducted in the Environmental Assessment (2009a);
- Monitor concentration levels of EFW-related air contaminants in nearby residential areas; and,
- Quantify background ambient levels of air contaminants in the area.

The facility has two (2) monitoring stations which collect continuous and discrete ambient measurements, known as the Courtice station and Rundle Road station. The station locations are shown in **Figure 1**. The Courtice and Rundle Road stations were operational in May of 2013 and have been operated on behalf of the Region of Durham by Stantec Consulting Ltd. since that time up until July 31, 2018. RWDI has overseen the operation of the stations on behalf of the Region of Durham since August 1, 2018.

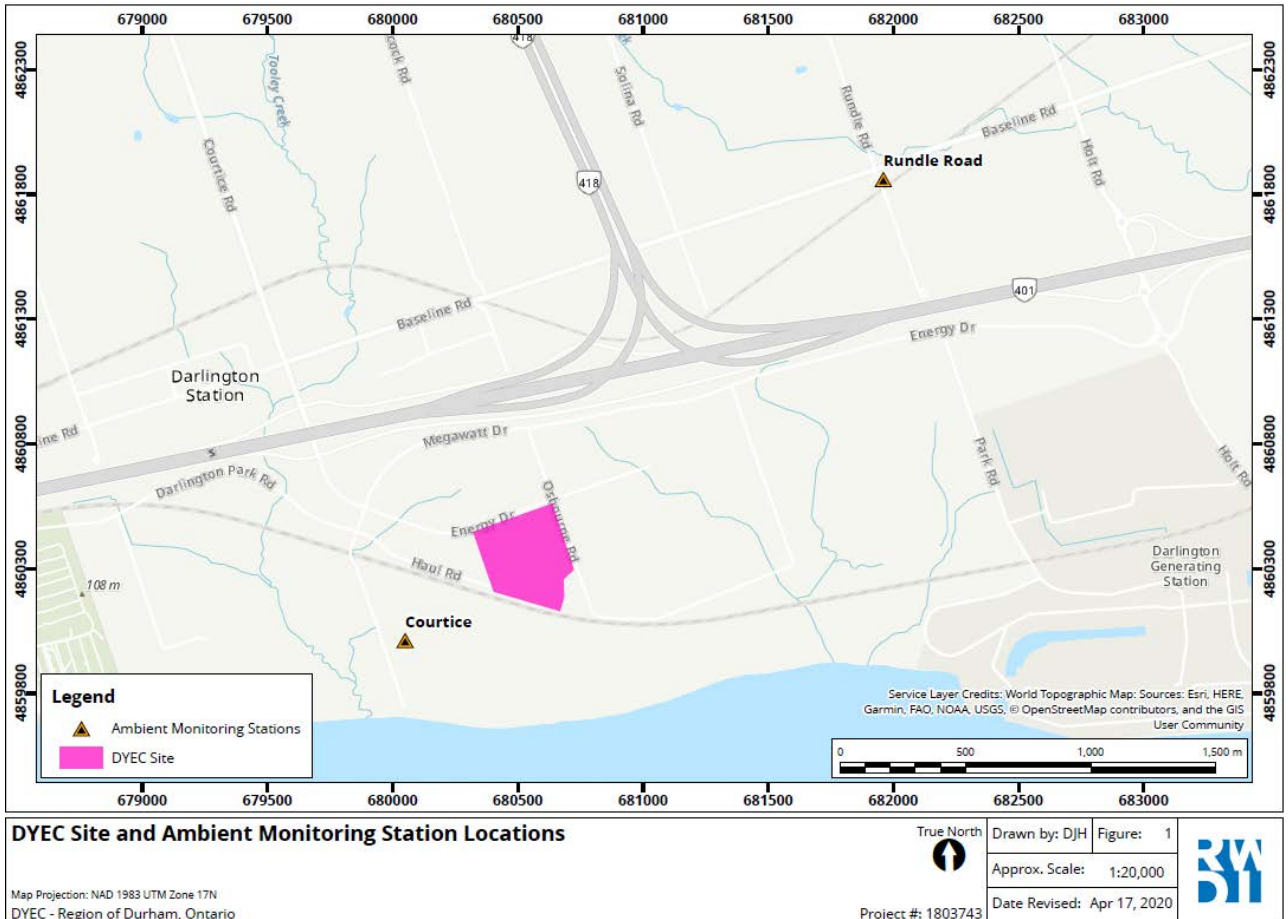
The Courtice and Rundle Road stations continuously monitor the following air quality parameters: Particulate Matter less than 2.5 microns (PM<sub>2.5</sub>), Nitrogen Oxides (NO<sub>x</sub>) and Sulfur Dioxide (SO<sub>2</sub>). In addition, both discretely monitor the following air quality parameters: Total Suspended Particulate (TSP), Metals, Dioxins and Furans (D&F) and Polycyclic Aromatic Hydrocarbons (PAHs).

Continuous meteorological data is collected at the Courtice and Rundle Road stations. The Rundle Road station collects the following meteorological parameters: wind speed, wind direction, ambient temperature, precipitation and relative humidity. The Courtice station collects the following meteorological parameters: wind speed, wind direction, ambient temperature, ambient pressure, precipitation and relative humidity. The meteorological towers at both stations are approximately 10 meters tall.



Throughout this monitoring period there were fifty-one (51) exceedance events of the rolling 10-minute SO<sub>2</sub> AAQC and thirty-two (32) exceedance events of the rolling 1-hour SO<sub>2</sub> AAQC at the Courtice station. There were a total of five (5) exceedances of the BaP AAQC during Q4, two (2) exceedances at the Courtice station and three (3) at the Rundle station. Data recovery rates were acceptable and valid for all measured Q4 continuous and discrete parameters.

**Figure 1: DYEC Site and Ambient Monitoring Station Locations**



## 1.1 Sampling Locations

The station sites were selected in consultation with a working group that included representatives from the MECP, the Region of Durham, York Region, and the Energy from Waste Advisory Committee (EFWAC), as required by Condition 11.3 of the Environmental Assessment Notice of Approval. The Courtice station is predominantly upwind of the DYEC and is located on the Courtice WPCP property just southwest of the DYEC. The Rundle Road station is predominantly downwind of the DYEC and is located just southeast of the intersection of Baseline Road and Rundle Road just northeast of the DYEC. Pictures of the two (2) stations are presented as **Figure 2** and **3**.

Figure 2: Rundle Road Station



Figure 3: Courtice Station



## 2 SAMPLING METHODOLOGY

The Rundle Road and Courtice stations are both equipped with the following continuous monitors: Thermo Scientific Model 5030 SHARP (Synchronized Hybrid Ambient Real-time Particulate) monitor (PM<sub>2.5</sub> analyzer), Teledyne Nitrogen Oxides Analyzer Model T200 (NO<sub>x</sub> analyzer), and a Teledyne Sulfur Dioxide Analyzer Model T100 (SO<sub>2</sub> analyzer). Both stations also have the following periodic monitors: High Volume (Hi-Vol) Air Sampler outfitted with a TSP inlet head as approved by the United States Environmental Protection Agency (U.S. EPA), and a Hi-Vol Air Sampler outfitted with a polyurethane foam plug and circular quartz filter for measuring PAH's and D&F's as approved by U.S. EPA.

### 2.1 Nitrogen Oxide Analyzers

The Teledyne T200 Nitrogen Oxide (NO<sub>x</sub>) analyzers use chemiluminescence detection, coupled with microprocessor technology to provide sensitivity and stability for ambient air quality applications. The instrument determines real-time concentration of nitric oxide (NO), total nitrogen oxides (NO<sub>x</sub>) (the sum of NO and NO<sub>2</sub>), and nitrogen dioxide (NO<sub>2</sub>). The amount of NO is measured by detecting the chemiluminescence reaction that occurs in the reaction cell when NO molecules are exposed to ozone (O<sub>3</sub>). The NO and O<sub>3</sub> molecules collide in the reaction cell and enter a higher energy state.

When these excited molecules return to a stable energy state, they emit a photon of light which is proportional to the amount of NO in the sample stream of gas entering the analyzer.



To determine the total NO<sub>x</sub> (NO+NO<sub>2</sub>) measurement, sample gas is periodically bypassed through a heated molybdenum converter cartridge that converts any NO<sub>2</sub> molecules in the sample stream into NO (any existing NO molecules in the stream remain as is). The instrument will switch the sample stream through the converter periodically and then through the reaction cell where the same chemiluminescence reaction occurs with ozone.

The resultant response produced is now the sum of NO and converted NO<sub>2</sub> producing a NO<sub>x</sub> measurement. The resultant NO<sub>2</sub> determination is the NO<sub>x</sub> measurement subtracted from the NO measurement.

The NO<sub>x</sub> analyzers were zero and span checked daily using the internal zero and span (IZS) system and calibrated once a month using either EPA protocol span gases and a dilution system or an ESA permeation tube calibrator. Automatic IZS checks were performed on a daily basis commencing at approximately 01:45 and ending at 02:15. The checks consisted of a 10-minute zero check, a 10-minute span check and a 10-minute purge. These checks provide a way to monitor daily performance of the analyzer using an external charcoal and purafil zeroing cartridge for the zero, and an internal permeation oven with a permeation tube for the span. These IZS checks are not for calibration purposes but are merely a diagnostic tool to identify instrument drift.

The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

## 2.2 Sulphur Dioxide Analyzers

The Teledyne T100 Sulphur Dioxide (SO<sub>2</sub>) Analyzer is a microprocessor-controlled analyzer that determines the concentration of SO<sub>2</sub> in a sample gas drawn through the instrument. In the sample chamber, sample gas is excited by ultraviolet light causing the SO<sub>2</sub> to absorb energy from the light and move to an active state (SO<sub>2</sub>\*). These active SO<sub>2</sub>\* molecules must decay into a stable state back to SO<sub>2</sub>, and when this happens a photon of light is released which is recognized by the instrument as fluorescence. The instrument measures the amount of fluorescence to determine the amount of SO<sub>2</sub> present in the sample gas.

The SO<sub>2</sub> analyzers were zero and span checked daily using the IZS system and calibrated once a month using either EPA protocol span gases and a dilution system or an ESA permeation tube calibrator. Automatic IZS checks were performed on a daily basis commencing at approximately 01:45 and ending at 02:15. The checks consisted of a 10-minute zero check, a 10-minute span check and a 10-minute purge. These checks provide a way to monitor daily performance of the analyzer using an external charcoal and purafil zeroing cartridge for the zero, and an internal permeation oven with a permeation tube for the span. These IZS checks are not for calibration purposes but are merely a diagnostic tool to identify instrument drift.



The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

## **2.3 SHARP 5030 PM<sub>2.5</sub> Analyzers**

The SHARP 5030 is a hybrid nephelometric/radiometric particulate mass monitor capable of providing precise, real-time measurements with a superior detection limit. The SHARP incorporates a high sensitivity light scattering photometer whose output signal is continuously referenced to the time-averaged measurement of an integral beta attenuating mass sensor. The SHARP also incorporates a dynamic inlet heating system designed to maintain the relative humidity of the air passing through the filter tape constant.

The SHARP is calibrated once a month to ensure accuracy and validity of its data. The PM<sub>2.5</sub> inlet head and sharp cut cyclone is cleaned monthly as well to ensure proper performance. The monthly calibration process consists of the following: zeroing the nephelometer if necessary, calibration of ambient temperature, calibration of barometric pressure, and calibration of the flow.

The instrument collects data using its own data acquisition system (DAS) on a 5-minute interval. Data is collected from the instrument directly to an EnviDAS logger at 1-min, 5-min and 60-min intervals. The logger can be accessed remotely, and all instrument parameters can be examined as well as the measurement data. This allows the tracking of instrument performance. Data was also collected at 1-minute intervals by an external datalogger using analog output connections as a back-up. The measurement data was averaged using Envista processing software over a 1-hour and 24-hour period to compare to the applicable ambient air quality criteria.

## **2.4 TSP High Volume Air Samplers**

The Tisch TE-5170 Total Suspended Particulate (TSP) high volume (Hi-Vol) air samplers were outfitted with a TSP gabled inlet capable of collecting particulate of all aerodynamic diameters. Each Hi-Vol is equipped with a mass flow controller, which ensures a flow rate of 40 cubic feet per minute (CFM), a chart recorder for measuring cfm flow throughout the run time, an elapsed timer and a wheel timer for starting and stopping each sample. In the latter part of 2019, the pin-based wheel timer was modified with an automated relay system controlled by a data logger to toggle the sampler on and off, and the chart recorder system was replaced by a digital pressure transducer to record the blower output pressure. Teflon coated glass fibre filters are outfitted at the top of the hi-vol samplers where air is drawn through the filter, thereby collecting TSP. Each Hi-Vol is calibrated quarterly (every three months) to ensure accuracy and validity of the volume of air drawn through the sampler.

The Teflon coated glass fibre filter media was pre and post weighed by ALS Laboratories in Burlington, Ontario. The filters are then analyzed for total particulate weight, metals analysis and mercury.



## 2.5 Polyurethane Foam Samplers

The D&F, and PAH samples were collected using Tisch TE-1000 samplers, which are listed as reference devices for U.S. EPA Methods TO-9 and TO-13. The samplers use a collection filter that is 'backed-up' by a polyurethane foam (PUF) plug. The airborne compounds present in the particulate phase are collected on the Teflon coated glass fibre filter and any compounds present in the vapour phase are absorbed in the PUF plug. Each PUF sampler is equipped with a mass flow controller, which can sustain 8 CFM of flow over the sampling period, an elapsed timer and a wheel timer for starting and stopping each sample.

In the latter part of 2019, the pin-based wheel timer was modified with an automated relay system controlled by a data logger to toggle the sampler on and off, and the chart recorder system was replaced by a digital pressure transducer to record the blower output pressure. Each PUF sampler is calibrated quarterly (every three months) to ensure accuracy and validity of the volume of air drawn through the sampler.

The filter and PUF media/glassware is proofed and analyzed by ALS Laboratories in Burlington, Ontario. The filters and PUF/XAD plugs are then analyzed for PAH's and D&F's.

## 2.6 Meteorological Towers

Meteorological data was collected from the Rundle Road and Courtice stations. This is done so that a vector could be associated with the applicable contaminant concentrations. The Rundle Road and Courtice stations are outfitted with a Campbell Scientific HMP60 Temperature / Relative Humidity probe, and a Texas Instruments TE525M rain gauge. Meteorological data was collected at 1-minute intervals and was averaged using Envista processing software over a 1-hour period.

# 3 AIR QUALITY CRITERIA AND STANDARDS

The monitored contaminant concentrations were compared to air quality criteria and standards set by the MECP and by Environment Canada. The MECP developed Ambient Air Quality Criteria (AAQCs) which are the maximum desirable concentrations in the outdoor air, based on effects to the environment and health (MECP, 2012). Not all contaminants have an applicable regulatory limit; therefore, other criteria were used for comparison. These included human health risk assessment (HHRA) criteria.

Environment Canada has established a Canadian Ambient Air Quality Standard (CAAQS) which are health-based air quality objectives for the outdoor air (Environment Canada, 2013). The current CAAQS' for PM<sub>2.5</sub> are 27 µg/m<sup>3</sup> for the 3-year average of annual 98<sup>th</sup> percentile 24-hour concentration, and 8.8 µg/m<sup>3</sup> for the 3-year average of annual average concentrations (in effect as of 2020). The CAAQS' are listed in **Table 1**. No direct comparison to the 2020 CAAQS' is appropriate for this report, as the standards are only applicable to 3-year averaged data which is provided in the annual reports.



**Table 1:** PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>2</sub> CAAQS' by Implementation Year

Parameter	Averaging Time	Year Applied		Statistical Form
		2020	2025	
Fine Particulate Matter (PM <sub>2.5</sub> )	24-hour	27 µg/m <sup>3</sup>	-	The 3-year average of the annual 98 <sup>th</sup> percentile of the daily 24-hour average concentrations
	Annual	8.8 µg/m <sup>3</sup>	-	The 3-year average of the annual average of all 1-hour concentrations
Sulphur Dioxide (SO <sub>2</sub> )	1-hour	70 ppb	65 ppb	The 3-year average of the annual 99 <sup>th</sup> percentile of the SO <sub>2</sub> daily maximum 1-hour average concentrations
	Annual	5 ppb	4 ppb	The average over a single calendar year of all 1-hour average SO <sub>2</sub> concentrations
Nitrogen Dioxide (NO <sub>2</sub> )	1-hour	60 ppb	42 ppb	The 3-year average of the annual 98 <sup>th</sup> percentile of the daily maximum 1-hour average concentrations
	Annual	17 ppb	12 ppb	The average over a single calendar year of all 1-hour average concentrations

(CCME,2019)

All applicable criteria and standards are shown in the 'Summary of Ambient Measurements' section of this report.

## 4 MECP AUDITS

In Q4, there was a MECP audit conducted on December 16, 2025. All instruments met their respective audit criteria.

## 5 SUMMARY OF AMBIENT MEASUREMENTS

Ambient air quality monitoring results for all contaminants sampled at the Courtice and Rundle Road stations are discussed herein. Summary statistics from October to December 2025 are presented in a summary format below and in a more detailed matrix format in **Appendix A** for continuous measurements and **Appendix B** for discrete measurements.

### 5.1 Meteorological Station Results

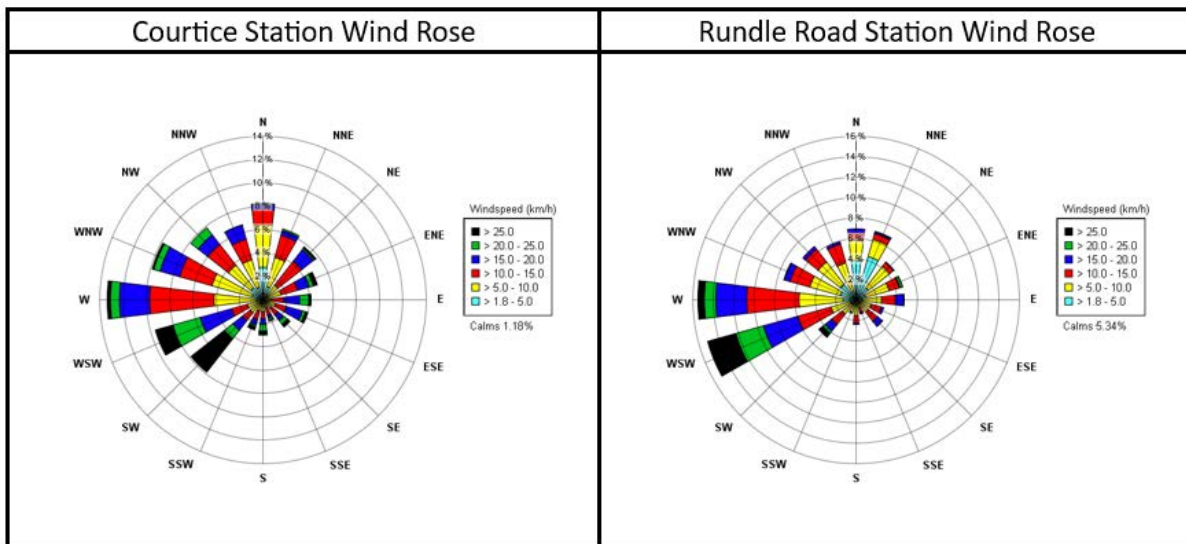
#### 5.1.1 Courtice Station Results

The Courtice station collected the following meteorological parameters: wind speed, wind direction, relative humidity, ambient temperature, ambient pressure, and precipitation. The meteorological tower at the station is at a height of approximately 10 meters tall. The Courtice station maintained 99.7% of data collection for all the parameters measured during Q4.



Hourly statistics from the meteorological station are presented in **Table 2**. A wind rose showing trends in wind speed and wind direction during Q4 is provided in **Figure 4**. A wind direction cut-off was applied for wind speeds less than or equal to 1.8 km/hr for the wind rose.

**Figure 4:** Wind Roses of Hourly Wind Speed and Wind Direction – October to December 2025



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**Table 2:** Hourly Statistics from the Courtice Meteorological Station

Courtice Station MET Statistics	Maximum 1 hr. Mean					Minimum 1 hr. Mean					Monthly Mean					Total	% Valid hours						
	Parameter	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres		Rain	Rain	WS	WD	Temp	RH	Pres
Units	(km/hr.)	(°C)	(%)	"Hg	mm	(km/hr.)	(°C)	(%)	"Hg	mm	(km/hr)	(°C)	(%)	"Hg	mm	mm	(%)						
<b>October</b>	27.5	24.5	100.0	30.3	9.6	0.6	0.9	31.0	29.1	0.0	11.0	12.1	73.8	29.8	0.1	58.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>November</b>	46.9	14.9	100.0	30.2	1.9	0.3	-4.2	30.3	28.9	0.0	12.7	3.9	75.8	29.6	0.0	31.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>December</b>	54.4	8.5	100.0	30.2	7.4	0.1	-13.8	38.7	28.8	0.0	15.7	-2.6	71.5	29.7	0.1	58.1	99.2	99.2	99.2	99.2	99.2	99.2	99.1
<b>Q4 Arithmetic Mean</b>											13.1	4.5	73.7	29.7	0.1	148.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7

### 5.1.2 Rundle Road Station Results

The Rundle Road station collected the following meteorological parameters: wind speed, wind direction, relative humidity, ambient temperature, and precipitation. The meteorological tower at the station is at a height of approximately 10 meters tall. The Rundle Road station maintained 100% data collection for all the meteorological parameters during Q4. Hourly statistics from the meteorological station is presented in **Table 3**. A wind rose showing trends in wind speed and wind direction during Q4 is provided in **Figure 4**. A wind direction cut-off was applied for wind speeds less than or equal to 1.8 km/hr for the wind rose.

**Table 3:** Hourly Statistics from the Rundle Road Meteorological Station

Rundle Road Station MET Statistics	Maximum 1 hr. Mean				Minimum 1 hr. Mean				Monthly Mean				Total	% Valid Hours					
	Parameter	WS	Temp	RH	Rain	WS	Temp	RH	Rain	WS	Temp	RH		Rain	Rain	WS	WD	Temp	RH
Units	(km/hr.)	(°C)	(%)	mm	(km/hr.)	(°C)	(%)	mm	(km/hr)	(°C)	(%)	mm	mm	(%)					
<b>October</b>	21.8	25.6	100.0	9.2	0.0	-0.6	33.6	0.0	7.3	10.9	78.6	0.1	64.7	100.0	100.0	100.0	100.0	100.0	100.0
<b>November</b>	42.1	14.0	100.0	2.3	0.1	-5.3	33.2	0.0	10.4	2.9	80.1	0.1	37.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>December</b>	43.8	7.5	100.0	7.0	0.2	-16.6	44.2	0.0	12.5	-3.7	75.7	0.1	55.6	100.0	100.0	100.0	100.0	100.0	99.9
<b>Q4 Arithmetic Mean</b>									10.0	3.4	78.1	0.1	157.3	100.0	100.0	100.0	100.0	100.0	100.0

## 5.2 NO<sub>x</sub>, SO<sub>2</sub> and PM<sub>2.5</sub> Summary Table Results

**Table 4** provides a summary of Maximum 1-hour Rolling Means, Maximum 24-hour Rolling Means, Monthly Means, Quarterly Means and Percent valid data for the Courtice station. **Table 5** provides a summary of Maximum 1-hour Means, Maximum 24-hour Means, Monthly Means, Quarterly Means and Percent valid data for the Rundle Road station. **Table 6** provides a summary of exceedance statistics for both Courtice and Rundle Road stations. At the Courtice station, there were fifty-one (51) exceedance events of the rolling 10-minute SO<sub>2</sub> AAQC and thirty-two (32) exceedance events of the 1-hour SO<sub>2</sub> AAQC in Q4. At the Rundle Road station, there were no exceedance events of the rolling 10-minute SO<sub>2</sub> AAQC or the 1-hour SO<sub>2</sub> AAQC in Q4.

**Table 4:** Summary of Courtice Station Continuous Data Statistics

Courtice Monitoring Station Data Statistics	Maximum Rolling 10 min Mean	Maximum Rolling 1 hr Mean					Maximum 24 hr Rolling Mean					Monthly Mean					% Valid Hours						
		SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	
Units	ppb	(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(%)						
<b>AAQC/CAAQS</b>	67				200	40	27 <sup>A</sup>				100												
<b>October</b>	218.0	19.3	53.8	34.8	36.2	112.7	12.3	16.1	4.6	12.7	26.5	3.8	6.2	1.4	4.9	6.2	99.9	99.7	99.7	99.7	99.6		
<b>November</b>	157.2	40.3	84.8	64.0	29.3	79.4	18.0	23.8	6.3	17.7	14.6	3.9	7.7	1.6	6.1	3.4	99.7	99.4	99.4	99.4	99.4		
<b>December</b>	25.2	26.0	82.7	50.4	32.6	15.1	14.9	20.2	7.3	16.0	4.5	5.5	7.0	1.3	5.6	0.9	98.5	98.3	98.3	98.3	98.1		
<b>Q4 Arithmetic Mean</b>												4.4	7.0	1.4	5.5	3.5	99.4	99.1	99.1	99.1	99.0		

<sup>A</sup> The 24-hour PM<sub>2.5</sub> CAAQS applies to the 98<sup>th</sup> percentile over 3 consecutive years.

**Table 5:** Summary of Rundle Road Station Continuous Data Statistics

Rundle Road Monitoring Station Data Statistics	Maximum Rolling 10 min Mean	Maximum Rolling 1 hr Mean					Maximum 24 hr Rolling Mean					Monthly Mean					% Valid Hours						
		SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	
Units	ppb	(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(%)						
<b>AAQC/CAAQS</b>	67				200	40	27 <sup>A</sup>				100												
<b>October</b>	5.2	19.9	30.4	15.7	17.2	3.5	9.8	12.4	3.3	9.1	0.7	3.6	3.5	0.7	2.8	0.3	99.7	99.7	99.7	99.7	99.7		
<b>November</b>	1.5	29.7	46.7	29.7	26.7	1.3	16.2	23.8	5.1	11.7	0.7	4.3	5.6	1.1	4.6	0.5	99.7	99.4	99.4	99.4	99.7		
<b>December</b>	2.3	28.1	48.2	23.3	26.3	1.3	16.7	18.7	3.7	15.1	0.8	5.8	6.6	1.0	5.6	0.5	99.7	99.5	99.5	99.5	99.6		
<b>Q4 Arithmetic Mean</b>												4.5	5.2	0.9	4.3	0.4	99.7	99.5	99.5	99.5	99.7		

<sup>A</sup> The 24-hour PM<sub>2.5</sub> CAAQS applies to the 98<sup>th</sup> percentile over 3 consecutive years.

**Table 6:** Summary of Exceedance Statistics

Event Statistics	Rolling Mean > 10 min AAQC for Courtice	Rolling Mean > 10 min AAQC for Rundle Road	Mean > 1 hr AAQC for Courtice Monitoring Station			Mean > 1 hr AAQC for Rundle Road Monitoring Station			Rolling Mean > 24 hr AAQC for Courtice Monitoring Station			Rolling Mean > 24 hr AAQC for Rundle Road Monitoring Station		
			PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
Units	No.	No.	No.			No.			No.			No.		
<b>October</b>	34	0		0	21		0	0	N/A	0		N/A	0	
<b>November</b>	17	0		0	11		0	0	N/A	0		N/A	0	
<b>December</b>	0	0		0	0		0	0	N/A	0		N/A	0	
<b>Q4 Total</b>	51	0		0	32		0	0	N/A	0		N/A	0	



## 5.3 Oxides of Nitrogen Results

### 5.3.1 Courtice Station Results

Data recovery levels were high for oxides of nitrogen (99.1% valid data). Monitoring results were compared to the AAQC for NO<sub>2</sub> only, as it is the only parameter that has AAQC values for 1-hour and 24-hour averaging periods (there are no AAQC's for NO or NO<sub>x</sub>). There were no exceedances above the AAQC values for the entirety of the sampling period for rolling 1-hour and 24-hour averaged data. The highest NO<sub>2</sub> value seen among the 1-hour rolling averages was 36.2 parts per billion (ppb), which is 18.1% of the AAQC. The highest NO<sub>2</sub> value seen among the rolling 24-hour averages was 17.7 ppb, which is 17.7% of the AAQC. The measurements are summarized in **Table 4** above. A pollution rose is presented in **Figure 5** for the Courtice station during Q4 composed of hourly average NO<sub>2</sub> concentrations. A pollution rose indicates the percentage of time that the wind originates from a given direction coupled with the pollutant measurement for that time in either ppb or micrograms per meter cubed (ug/m<sup>3</sup>). In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation.

The Courtice station pollution rose in **Figure 5** shows the NO<sub>2</sub> impacts range from the west-southwest to the east-northeast directions, with larger impacts from west-southwest, west and north directions. These larger impacts are likely from surrounding industries from those directions. The station is downwind of the DYEC when winds are from the northeast and east-northeast directions, which happened periodically during the monitoring period, therefore it is likely that the DYEC contributed to the observed concentrations from those directions. The additional minor impacts from the north-northeast, and west-southwest to north-northwest indicates reception from surrounding industry or the highway and railway corridors as well.

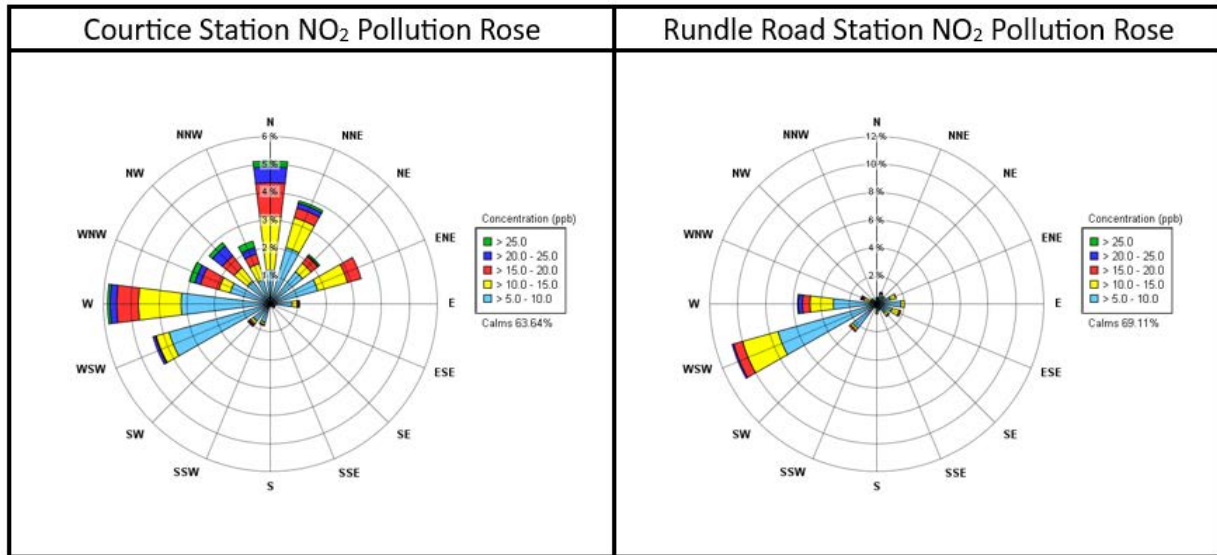
### 5.3.2 Rundle Road Station Results

Data recovery levels were high for oxides of nitrogen (99.5% valid data). There were no exceedances above the AAQC values for the entirety of the sampling period for rolling 1-hour and 24-hour averaged data. The highest NO<sub>2</sub> value seen among the 1-hour rolling averages was 26.7 ppb, which is 13.4% of the AAQC. The highest NO<sub>2</sub> value seen among the rolling 24-hour averages was 15.1 ppb, which is 15.1% of the AAQC. The measurements are summarized in **Table 5** above.

A pollution rose is presented in **Figure 5** for the Rundle Road station during Q4 composed of hourly average NO<sub>2</sub> concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation.

The Rundle Road station pollution rose in **Figure 5** shows that the NO<sub>2</sub> impacts are primarily from the west-southwest and west directions. The station is downwind of the DYEC when winds are from the southwest and west-southwest directions which happened periodically during the monitoring period, therefore it is likely that the DYEC contributed to the observed concentrations from those directions. The additional impacts from the west and other directions likely indicates reception from surrounding industry or the highway and railway corridors.

Figure 5: Pollution Roses of Hourly Average NO<sub>2</sub> Concentrations – October to December 2025



## 5.4 Sulphur Dioxide Results

### 5.4.1 Courtice Station Results

Data recovery levels were high for sulphur dioxide (99.0% valid data). Monitoring results were compared to the AAQC for 10-minute and 1-hour rolling average periods. In Q4 of 2025, the highest SO<sub>2</sub> value seen among the 10-min rolling averages was 218.0 ppb, which is 325.4% of the AAQC. The highest SO<sub>2</sub> value seen among the 1-hour rolling averages was 112.7 ppb, which is 281.8% of the AAQC. There were fifty-one (51) exceedance events of the rolling 10-minute SO<sub>2</sub> AAQC and thirty-two (32) exceedance events of the 1-hour SO<sub>2</sub> AAQC in Q4. A table outlining the interpretation of the exceedance period can be found in **Appendix E**.

The SO<sub>2</sub> statistical results are summarized in **Table 4** above. A pollution rose is presented in **Figure 6** for the Courtice station during Q4 composed of hourly average SO<sub>2</sub> concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation. A pollution rose is presented in **Figure 7** for the Courtice station during Q4 composed of 5-minute average SO<sub>2</sub> concentrations with levels below 67 ppb omitted to illustrate directionality of exceedance concentrations.

The Courtice station pollution rose in **Figure 6** shows that the majority of elevated SO<sub>2</sub> events at Courtice occurred from the north to northeast directions. The events were likely a result of emissions from surrounding industrial sources when winds are from the north and north-northeast directions. When winds from the northeast place the Courtice station downwind of the facility, the data suggests the DYEC likely contributed to the measured concentrations during those periods.



The Courtice station pollution rose in **Figure 7** shows that <0.37% of the 5-min SO<sub>2</sub> events are elevated >67 ppb and occurred primarily from the north to northeast directions. When winds from the northeast place the Courtice station downwind of the facility, the data suggests the DYEC likely contributed to the measured concentrations during those periods. The impacts from the north and north-northeast indicates the reception levels may be related to other industrial activity nearby.

A Technical Memorandum summarizing the DYEC SO<sub>2</sub> continuous emissions monitoring system (CEMS) data during the exceedance events recorded at the Courtice and Rundle Road Ambient Monitoring stations for Q4, is included in **Appendix F**. The Memorandum indicates that based on the in-stack concentration levels measured by the CEMS, that there were no unusual levels of SO<sub>2</sub> emissions during the ambient station exceedance events and that the facility's impact on ambient air quality would be expected to be quite low.

#### 5.4.2 Rundle Road Station Results

Data recovery levels were high for sulphur dioxide (99.7% valid data). Monitoring results were compared to the AAQC for 10-minute and 1-hour rolling average periods. The highest SO<sub>2</sub> value seen among the 10-min rolling averages was 5.2 ppb, which is 7.8% of the AAQC. The highest SO<sub>2</sub> value seen among the 1-hour rolling averages was 3.5 ppb, which is 8.8% of the AAQC.

The SO<sub>2</sub> statistical results are summarized in **Table 5** above. A pollution rose is presented in **Figure 6** for the Rundle Road station during Q4 composed of hourly average SO<sub>2</sub> concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 ppb were omitted from the graphic wind rose representation. A pollution rose is presented in **Figure 7** for the Rundle Road station during Q4 composed of 5-minute average SO<sub>2</sub> concentrations with levels below 67 ppb omitted to illustrate directionality of exceedance concentrations.

The Rundle Road station pollution rose in **Figure 6** shows that there are no elevated SO<sub>2</sub> events.

The Rundle Road station pollution rose in **Figure 7** shows that there were no 5-min SO<sub>2</sub> events that are elevated >67 ppb.



Figure 6: Pollution Roses of Hourly Average SO<sub>2</sub> Concentrations – October to December 2025

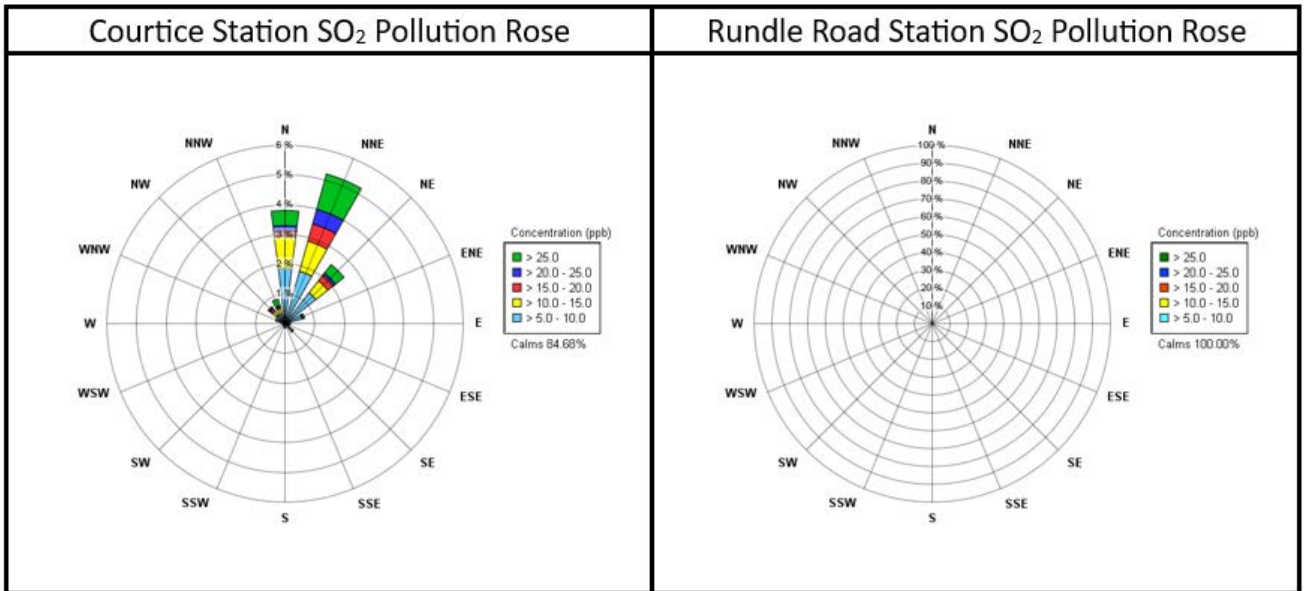
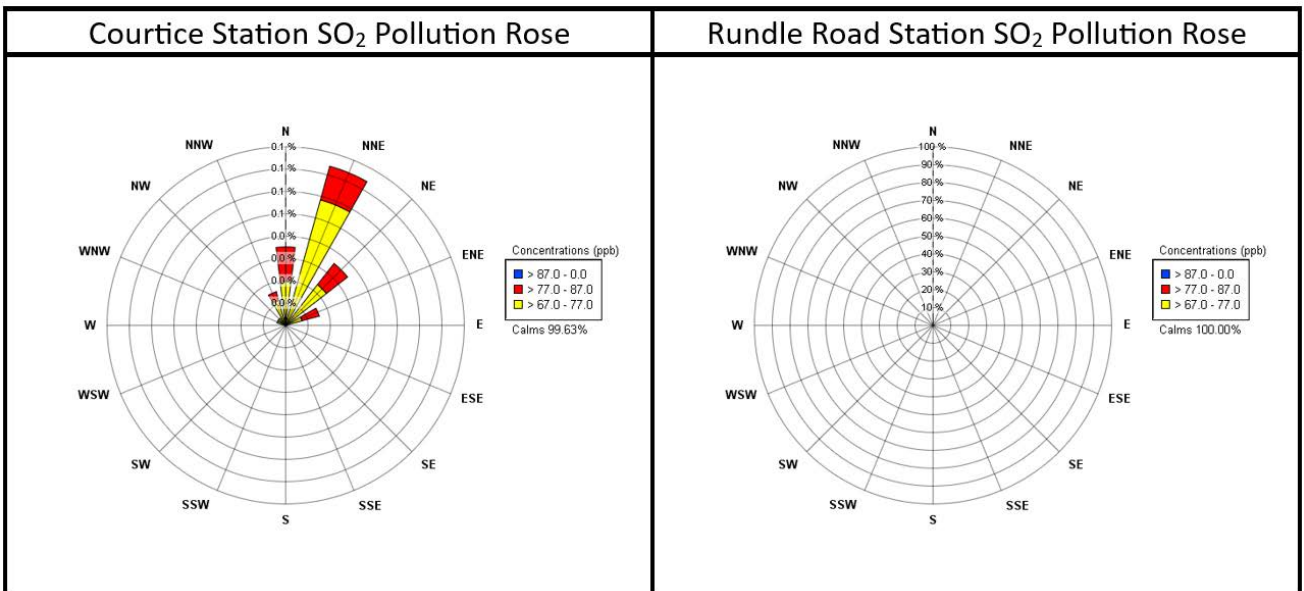


Figure 7: Pollution Roses of 5-minute Average SO<sub>2</sub> Concentrations >67 ppb – October to December 2025





## 5.5 Fine Particulate Matter (PM<sub>2.5</sub>) Results

### 5.5.1 Courtice Station Results

Data recovery levels were high for particulate matter less than 2.5 microns (99.4% valid data). There is no 1-hour AAQC or standard for PM<sub>2.5</sub>, but there is a 24-hour CAAQS of 27 µg/m<sup>3</sup> for the 3-year average of the annual 98<sup>th</sup> percentile 24-hour concentrations, and 8.8 µg/m<sup>3</sup> for the 3-year average of the annual average concentrations (in effect as of 2020). Note that since the reported data is only quarterly and the CAAQS is applicable to the 3-year average, the CAAQS' for PM<sub>2.5</sub> was not applicable to the data. The highest PM<sub>2.5</sub> value seen among the 1-hour rolling averages was 40.3 µg/m<sup>3</sup> and the highest value seen among the 24-hour rolling averages was 18.0 µg/m<sup>3</sup>. The results are summarized in **Table 4** above. A pollution rose is presented in **Figure 8** for the Courtice station during Q4 composed of hourly average PM<sub>2.5</sub> concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 µg/m<sup>3</sup> were omitted from the graphic wind rose representation.

The Courtice station pollution rose in **Figure 8** shows that the primary elevated PM<sub>2.5</sub> events at Courtice occurred when winds were from the southwest and west-southwest. Minor contributions resonated from the north, east-northeast and west directions. The northeast and east-northeast direction places the station downwind of the DYEC occasionally which may contribute to concentrations from this direction. Other contributions are in line with nearby industrial activity.

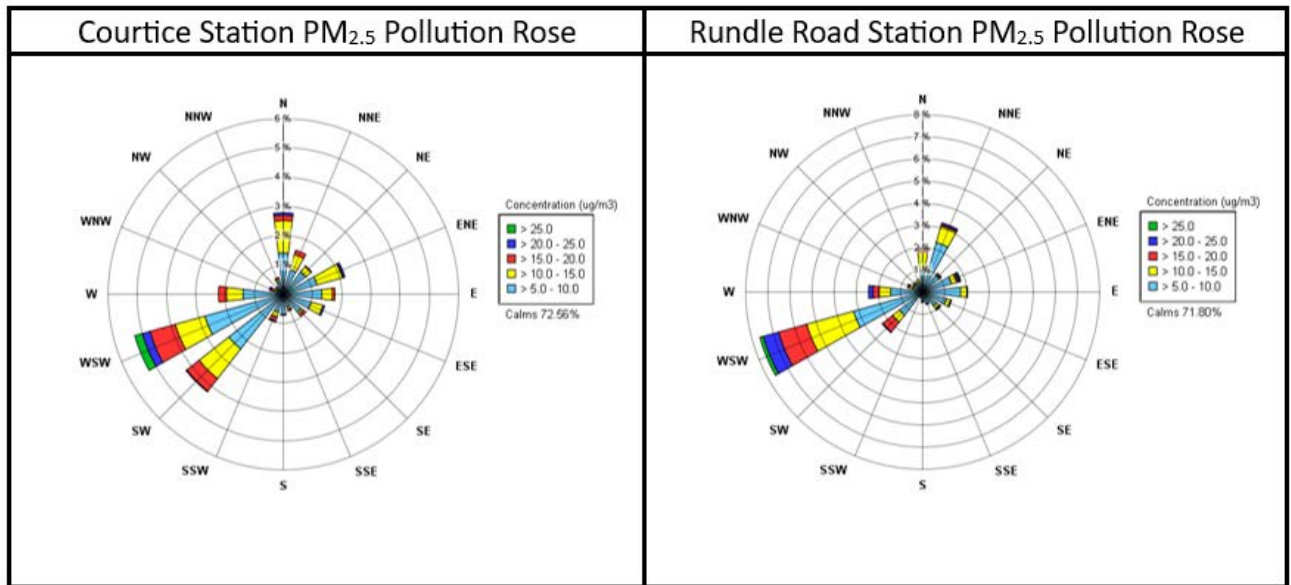
### 5.5.2 Rundle Road Station Results

Data recovery levels were high for particulate matter less than 2.5 microns (99.7% valid data). The highest PM<sub>2.5</sub> value seen among the 1-hour rolling averages was 29.7 µg/m<sup>3</sup> and the highest value seen among the 24-hour rolling averages was 16.7 µg/m<sup>3</sup>. The results are summarized in **Table 5** above. A pollution rose is presented in **Figure 8** for the Rundle Road station during Q4 composed of hourly average PM<sub>2.5</sub> concentrations. In order to show where possible major sources of pollutants are coming from, levels below 5 µg/m<sup>3</sup> were omitted from the graphic wind rose representation.

The Rundle Road pollution rose in **Figure 8** shows that the primary elevated PM<sub>2.5</sub> events at the Rundle Road station occurred when winds were from the west-southwest direction during the monitoring period. Minor contributions resonated from the north-northeast, southwest and west directions. The southwest and west-southwest directions place the DYEC downwind of the station and the DYEC may have contributed to the observed concentrations from these directions. Other possible contributions include surrounding industry, nearby high traffic areas and urban background.



Figure 8: Pollution Roses of Hourly Average PM<sub>2.5</sub> Concentrations – October to December 2025



## 5.6 TSP and Metals Hi-Vol Results

All of the TSP Hi-Vols operated on a discrete schedule every 6 days according to the NAPS schedule during Q4 with the sample days being: October 4, 10, 16, 22, 28, November 3, 9, 15, 21, 27, December 3, 9, 15, 21, and 27.

### 5.6.1 Courtice Station Results

Data recovery levels were high for the TSP sampler at the Courtice station (100% valid data). There were no exceedances of any of the AAQC's Criteria for TSP, mercury, or metals during Q4. **Table 7** is a summary of the statistics for this station.

Table 7: Summary of TSP Sampler Courtice Station

Contaminant	Units	MECP Criteria	No. > Criteria	Geometric Mean	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
Particulate (TSP)	µg/m <sup>3</sup>	120	0	13.6	15.2	6.84	45.26	45.26	20.04	17.00	15	100
Aluminum (Al)	µg/m <sup>3</sup>	-	-	1.01E-01	1.13E-01	5.32E-02	2.48E-01	2.48E-01	1.02E-01	1.35E-01	15	100
Antimony (Sb)	µg/m <sup>3</sup>	25	0	1.13E-03	1.39E-03	3.48E-04	4.00E-03	2.28E-03	4.00E-03	2.51E-03	15	100
Arsenic (As)	µg/m <sup>3</sup>	0.3	0	9.56E-04	1.02E-03	8.53E-04	3.03E-03	3.03E-03	8.90E-04	9.01E-04	15	100
Barium (Ba)	µg/m <sup>3</sup>	10	0	7.20E-03	8.69E-03	2.49E-03	2.12E-02	1.61E-02	2.12E-02	1.02E-02	15	100
Beryllium (Be)	µg/m <sup>3</sup>	0.01	0	1.47E-05	1.47E-05	1.42E-05	1.55E-05	1.55E-05	1.48E-05	1.50E-05	15	100
Bismuth (Bi)	µg/m <sup>3</sup>	-	-	5.30E-04	5.30E-04	5.12E-04	5.58E-04	5.58E-04	5.34E-04	5.41E-04	15	100
Boron (B)	µg/m <sup>3</sup>	120	0	4.41E-03	4.41E-03	4.26E-03	4.65E-03	4.65E-03	4.45E-03	4.51E-03	15	100
Cadmium (Cd)	µg/m <sup>3</sup>	0.025	0	1.34E-04	1.69E-04	5.83E-05	5.40E-04	3.56E-04	1.91E-04	5.40E-04	15	100
Chromium (Cr)	µg/m <sup>3</sup>	0.5	0	2.41E-03	2.57E-03	9.85E-04	3.76E-03	3.58E-03	3.68E-03	3.76E-03	15	100
Cobalt (Co)	µg/m <sup>3</sup>	0.1	0	8.77E-05	9.84E-05	4.39E-05	2.51E-04	2.51E-04	1.16E-04	1.20E-04	15	100
Copper (Cu)	µg/m <sup>3</sup>	50	0	5.73E-02	7.72E-02	1.62E-02	2.08E-01	1.24E-01	2.08E-01	1.63E-01	15	100
Iron (Fe)	µg/m <sup>3</sup>	4	0	2.66E-01	3.16E-01	9.48E-02	9.04E-01	9.04E-01	5.14E-01	3.66E-01	15	100
Lead (Pb)	µg/m <sup>3</sup>	0.5	0	2.43E-03	2.63E-03	1.41E-03	5.62E-03	5.62E-03	3.51E-03	3.60E-03	15	100
Magnesium (Mg)	µg/m <sup>3</sup>	-	-	1.59E-01	1.77E-01	6.95E-02	4.37E-01	4.37E-01	1.87E-01	2.53E-01	15	100
Manganese (Mn)	µg/m <sup>3</sup>	0.4	0	7.63E-03	9.08E-03	2.16E-03	2.69E-02	2.69E-02	1.01E-02	1.12E-02	15	100
Total Mercury (Hg)	µg/m <sup>3</sup>	2	0	5.25E-06	7.23E-06	2.84E-06	2.79E-05	2.79E-05	1.90E-05	6.36E-06	15	100
Molybdenum (Mo)	µg/m <sup>3</sup>	120	0	2.02E-03	2.62E-03	5.51E-04	7.00E-03	4.12E-03	5.64E-03	7.00E-03	15	100
Nickel (Ni)	µg/m <sup>3</sup>	0.2	0	1.25E-03	1.38E-03	6.67E-04	3.02E-03	2.31E-03	2.12E-03	3.02E-03	15	100
Phosphorus (P)	µg/m <sup>3</sup>	-	-	2.21E-01	2.21E-01	2.13E-01	2.33E-01	2.33E-01	2.22E-01	2.25E-01	15	100
Selenium (Se)	µg/m <sup>3</sup>	10	0	4.54E-04	5.31E-04	3.70E-04	2.06E-03	2.06E-03	9.35E-04	3.90E-04	15	100
Silver (Ag)	µg/m <sup>3</sup>	1	0	4.40E-05	6.00E-05	2.57E-05	2.14E-04	9.46E-05	1.15E-04	2.14E-04	15	100
Strontium (Sr)	µg/m <sup>3</sup>	120	0	3.03E-03	3.49E-03	8.55E-04	8.19E-03	8.19E-03	3.39E-03	4.45E-03	15	100
Thallium (Tl)	µg/m <sup>3</sup>	-	-	2.78E-05	2.84E-05	2.56E-05	5.59E-05	2.79E-05	2.67E-05	5.59E-05	15	100
Tin (Sn)	µg/m <sup>3</sup>	10	0	1.04E-03	1.52E-03	4.11E-04	9.08E-03	1.64E-03	1.64E-03	9.08E-03	15	100
Titanium (Ti)	µg/m <sup>3</sup>	120	0	4.67E-03	5.48E-03	3.13E-03	1.31E-02	1.31E-02	8.76E-03	3.30E-03	15	100
Uranium (Ur)	µg/m <sup>3</sup>	0.3	0	8.71E-06	1.08E-05	1.71E-06	2.57E-05	2.57E-05	2.17E-05	1.30E-05	15	100
Vanadium (V)	µg/m <sup>3</sup>	2	0	1.47E-03	1.47E-03	1.42E-03	1.55E-03	1.55E-03	1.48E-03	1.50E-03	15	100
Zinc (Zn)	µg/m <sup>3</sup>	120	0	4.67E-02	5.50E-02	2.01E-02	1.23E-01	6.92E-02	1.23E-01	8.50E-02	15	100
Zirconium (Zr)	µg/m <sup>3</sup>	-	-	6.63E-04	7.03E-04	5.69E-04	1.46E-03	1.44E-03	1.46E-03	6.01E-04	15	100

Note: All non-detectable results were reported as 1/2 of the detection limit

### 5.6.1 Rundle Road Station Results

Data recovery levels were high for the TSP sampler at the Rundle Road station (100% valid data). There were no exceedances of any of the AAQC's for TSP, mercury, or metals during Q4. **Table 8** is a summary of the station statistics.

**Table 8:** Summary of TSP Sampler Rundle Road Station

Contaminant	Units	MECP Criteria	No. > Criteria	Geometric Mean	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
Particulate (TSP)	µg/m <sup>3</sup>	120	0	16.9	18.3	7.67	35.34	35.34	26.74	24.49	15	100
Aluminum (Al)	µg/m <sup>3</sup>	-	-	1.25E-01	1.38E-01	3.94E-02	2.85E-01	2.85E-01	2.17E-01	1.33E-01	15	100
Antimony (Sb)	µg/m <sup>3</sup>	25	0	7.74E-04	8.98E-04	2.49E-04	2.13E-03	2.13E-03	1.22E-03	1.61E-03	15	100
Arsenic (As)	µg/m <sup>3</sup>	0.3	0	9.68E-04	1.02E-03	8.68E-04	2.78E-03	2.78E-03	9.41E-04	9.06E-04	15	100
Barium (Ba)	µg/m <sup>3</sup>	10	0	7.27E-03	8.31E-03	2.22E-03	1.35E-02	1.35E-02	1.09E-02	1.09E-02	15	100
Beryllium (Be)	µg/m <sup>3</sup>	0.01	0	1.50E-05	1.50E-05	1.45E-05	1.57E-05	1.51E-05	1.57E-05	1.51E-05	15	100
Bismuth (Bi)	µg/m <sup>3</sup>	-	-	5.39E-04	5.39E-04	5.21E-04	5.65E-04	5.45E-04	5.65E-04	5.43E-04	15	100
Boron (B)	µg/m <sup>3</sup>	120	0	4.49E-03	4.49E-03	4.34E-03	4.71E-03	4.54E-03	4.71E-03	4.53E-03	15	100
Cadmium (Cd)	µg/m <sup>3</sup>	0.025	0	1.17E-04	1.39E-04	4.05E-05	2.96E-04	2.96E-04	1.99E-04	2.96E-04	15	100
Chromium (Cr)	µg/m <sup>3</sup>	0.5	0	2.48E-03	2.64E-03	9.84E-04	3.84E-03	3.45E-03	3.26E-03	3.84E-03	15	100
Cobalt (Co)	µg/m <sup>3</sup>	0.1	0	1.03E-04	1.18E-04	3.26E-05	3.00E-04	3.00E-04	1.51E-04	1.25E-04	15	100
Copper (Cu)	µg/m <sup>3</sup>	50	0	1.19E-01	1.54E-01	2.28E-02	3.72E-01	3.72E-01	3.44E-01	1.78E-01	15	100
Iron (Fe)	µg/m <sup>3</sup>	4	0	2.96E-01	3.42E-01	7.25E-02	7.15E-01	7.15E-01	4.59E-01	4.31E-01	15	100
Lead (Pb)	µg/m <sup>3</sup>	0.5	0	3.19E-03	3.81E-03	1.11E-03	1.26E-02	5.61E-03	1.26E-02	5.58E-03	15	100
Magnesium (Mg)	µg/m <sup>3</sup>	-	-	2.34E-01	2.90E-01	6.10E-02	7.45E-01	7.45E-01	6.78E-01	3.57E-01	15	100
Manganese (Mn)	µg/m <sup>3</sup>	0.4	0	8.95E-03	1.08E-02	1.56E-03	2.10E-02	2.10E-02	1.71E-02	1.83E-02	15	100
Total Mercury (Hg)	µg/m <sup>3</sup>	2	0	4.88E-06	6.21E-06	2.89E-06	2.54E-05	2.54E-05	7.81E-06	6.60E-06	15	100
Molybdenum (Mo)	µg/m <sup>3</sup>	120	0	4.04E-03	4.77E-03	1.15E-03	1.11E-02	1.11E-02	8.62E-03	7.44E-03	15	100
Nickel (Ni)	µg/m <sup>3</sup>	0.2	0	1.18E-03	1.28E-03	5.86E-04	2.59E-03	1.77E-03	1.92E-03	2.59E-03	15	100
Phosphorus (P)	µg/m <sup>3</sup>	-	-	2.25E-01	2.25E-01	2.17E-01	2.35E-01	2.27E-01	2.35E-01	2.26E-01	15	100
Selenium (Se)	µg/m <sup>3</sup>	10	0	4.84E-04	5.64E-04	3.76E-04	2.06E-03	2.06E-03	8.91E-04	3.92E-04	15	100
Silver (Ag)	µg/m <sup>3</sup>	1	0	7.19E-05	9.08E-05	2.61E-05	2.23E-04	1.89E-04	1.74E-04	2.23E-04	15	100
Strontium (Sr)	µg/m <sup>3</sup>	120	0	4.09E-03	4.79E-03	9.06E-04	1.20E-02	1.20E-02	7.41E-03	6.77E-03	15	100
Thallium (Tl)	µg/m <sup>3</sup>	-	-	2.69E-05	2.69E-05	2.61E-05	2.82E-05	2.72E-05	2.82E-05	2.72E-05	15	100
Tin (Sn)	µg/m <sup>3</sup>	10	0	9.42E-04	1.13E-03	1.80E-04	2.33E-03	1.87E-03	1.39E-03	2.33E-03	15	100
Titanium (Ti)	µg/m <sup>3</sup>	120	0	5.66E-03	6.64E-03	3.18E-03	1.74E-02	1.74E-02	1.13E-02	7.80E-03	15	100
Uranium (Ur)	µg/m <sup>3</sup>	0.3	0	1.17E-05	1.36E-05	4.98E-06	4.05E-05	4.05E-05	1.62E-05	1.32E-05	15	100
Vanadium (V)	µg/m <sup>3</sup>	2	0	1.50E-03	1.50E-03	1.45E-03	1.57E-03	1.51E-03	1.57E-03	1.51E-03	15	100
Zinc (Zn)	µg/m <sup>3</sup>	120	0	6.33E-02	8.18E-02	2.52E-02	2.19E-01	8.35E-02	2.19E-01	1.76E-01	15	100
Zirconium (Zr)	µg/m <sup>3</sup>	-	-	6.61E-04	6.87E-04	5.79E-04	1.27E-03	1.27E-03	6.28E-04	6.04E-04	15	100

**Note:** All non-detectable results were reported as 1/2 of the detection limit

## 5.7 PAH Results

All of the PUF Hi-Vols operated on a discrete schedule every 12 days for PAH's according to the NAPS schedule during Q4 with the sample days being: October 4, 16, 28, November 9, 21, December 3, 15 and 27.

### 5.7.1 Courtice Station Results

Data recovery levels were acceptable for the PAH results at the Courtice station (100% valid data) in Q4. There were two (2) exceedances of the BaP AAQC during Q4 from the available results on November 21 and December 3. All other contaminants were below their respective AAQC's during Q4 of 2025. **Table 9** outlines the statistics summary for this station.

**Table 9:** Statistics Summary of PAH Results for Courtice Station

Contaminant	Units	MECP Criteria (µg/m³)	No. > Criteria	Arithmetic Mean	Minimum Q4 Concentration	Maximum Q4 Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m³	-	-	7.59E+00	1.38E+00	2.42E+01	8.00E+00	6.40E+00	2.42E+01	8	100
2-Methylnaphthalene	ng/m³	-	-	1.73E+01	1.88E+00	7.65E+01	1.23E+01	9.68E+00	7.65E+01	8	100
Acenaphthene	ng/m³	-	-	4.41E+00	5.00E-01	1.24E+01	1.24E+01	1.85E+00	9.97E+00	8	100
Acenaphthylene	ng/m³	-	-	4.96E-01	1.78E-01	1.27E+00	3.80E-01	9.27E-01	1.27E+00	8	100
Anthracene	ng/m³	-	-	1.90E-01	5.75E-02	4.98E-01	2.66E-01	1.29E-01	4.98E-01	8	100
Benzo(a)Anthracene	ng/m³	-	-	5.83E-02	6.02E-03	2.77E-01	3.29E-02	4.16E-02	2.77E-01	8	100
Benzo(a)fluorene	ng/m³	-	-	5.08E-02	1.27E-02	2.09E-01	2.96E-02	3.66E-02	2.09E-01	8	100
Benzo(a)Pyrene (Historically High)	ng/m³	0.05	2	4.84E-02	8.49E-03	1.72E-01	4.41E-02	5.24E-02	1.72E-01	8	100
Benzo(b)Fluoranthene	ng/m³	-	-	1.55E-01	2.29E-02	6.24E-01	1.01E-01	1.14E-01	6.24E-01	8	100
Benzo(b)fluorene	ng/m³	-	-	2.91E-02	6.30E-03	1.24E-01	1.70E-02	1.83E-02	1.24E-01	8	100
Benzo(e)Pyrene	ng/m³	-	-	1.05E-01	1.83E-02	4.29E-01	6.63E-02	8.52E-02	4.29E-01	8	100
Benzo(g,h,i)Perylene	ng/m³	-	-	1.00E-01	2.16E-02	3.54E-01	7.15E-02	1.00E-01	3.54E-01	8	100
Benzo(k)Fluoranthene	ng/m³	-	-	6.10E-02	8.39E-03	2.27E-01	4.69E-02	4.98E-02	2.27E-01	8	100
Biphenyl	ng/m³	-	-	3.66E+00	9.87E-01	1.19E+01	3.93E+00	3.25E+00	1.19E+01	8	100
Chrysene	ng/m³	-	-	1.52E-01	2.99E-02	6.80E-01	8.28E-02	9.68E-02	6.80E-01	8	100
Dibenzo(a,h)Anthracene	ng/m³	-	-	1.56E-02	3.84E-03	4.04E-02	1.80E-02	2.44E-02	4.04E-02	8	100
Fluoranthene	ng/m³	-	-	1.04E+00	3.12E-01	3.23E+00	1.46E+00	6.44E-01	3.23E+00	8	100
Fluorene	ng/m³	-	-	2.46E+00	5.60E-01	6.46E+00	4.55E+00	1.36E+00	6.46E+00	8	100
Indeno(1,2,3-cd)Pyrene	ng/m³	-	-	8.83E-02	1.27E-02	3.17E-01	6.81E-02	7.82E-02	3.17E-01	8	100
Naphthalene	ng/m³	22500	0	7.09E+01	9.18E+00	2.92E+02	7.55E+01	3.28E+01	2.92E+02	8	100
o-Terphenyl	ng/m³	-	-	1.94E-02	4.70E-03	5.89E-02	3.00E-02	1.53E-02	5.89E-02	8	100
Perylene	ng/m³	-	-	9.93E-03	1.67E-03	3.42E-02	5.51E-03	1.47E-02	3.42E-02	8	100
Phenanthrene	ng/m³	-	-	3.46E+00	1.11E+00	8.46E+00	6.29E+00	2.00E+00	8.46E+00	8	100
Pyrene	ng/m³	-	-	5.99E-01	1.82E-01	2.11E+00	5.30E-01	3.63E-01	2.11E+00	8	100
Tetralin	ng/m³	-	-	1.84E+01	1.73E+00	5.75E+01	5.75E+01	3.82E+00	1.80E+01	8	100
<b>Total PAH</b>	ng/m³	-	-	1.31E+02	1.89E+01	4.58E+02	1.63E+02	6.39E+01	4.58E+02	8	100

**Notes:** All non-detectable results were reported as 1/2 of the detection limit

## 5.7.2 Rundle Road Station Results

Data recovery levels were acceptable for the PAH results at the Rundle Road station (100% valid data). There were three (3) exceedances of the BaP AAQC during Q4 on October 4, November 21 and December 3. All other contaminants were below their respective AAQC's during Q4 of 2025. **Table 10** outlines the statistics summary for this station.

**Table 10:** Statistics Summary of PAH Results for Rundle Road Station

Contaminant	Units	MECP Criteria (µg/m³)	No. > Criteria	Arithmetic Mean	Minimum Q4 Concentration	Maximum Q4 Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m³	-	-	7.82E+00	1.11E+00	2.48E+01	9.06E+00	5.53E+00	2.48E+01	8	100
2-Methylnaphthalene	ng/m³	-	-	1.17E+01	1.40E+00	3.95E+01	1.24E+01	7.77E+00	3.95E+01	8	100
Acenaphthene	ng/m³	-	-	4.03E+00	2.34E-01	1.21E+01	1.21E+01	3.30E+00	6.77E+00	8	100
Acenaphthylene	ng/m³	-	-	5.76E-01	1.53E-01	2.28E+00	4.71E-01	4.94E-01	2.28E+00	8	100
Anthracene	ng/m³	-	-	2.61E-01	4.57E-02	8.29E-01	3.95E-01	1.75E-01	8.29E-01	8	100
Benzo(a)Anthracene	ng/m³	-	-	1.65E-01	1.19E-02	9.64E-01	5.51E-02	5.38E-02	9.64E-01	8	100
Benzo(a)fluorene	ng/m³	-	-	1.07E-01	1.16E-02	5.96E-01	4.61E-02	3.90E-02	5.96E-01	8	100
Benzo(a)Pyrene (Historically High)	ng/m³	0.05	3	1.59E-01	1.63E-02	8.89E-01	6.77E-02	6.76E-02	8.89E-01	8	100
Benzo(b)Fluoranthene	ng/m³	-	-	2.44E-01	3.05E-02	1.24E+00	1.42E-01	1.30E-01	1.24E+00	8	100
Benzo(b)fluorene	ng/m³	-	-	4.48E-02	5.60E-03	2.29E-01	2.64E-02	1.96E-02	2.29E-01	8	100
Benzo(e)Pyrene	ng/m³	-	-	1.94E-01	2.27E-02	1.01E+00	9.59E-02	9.78E-02	1.01E+00	8	100
Benzo(g,h,i)Perylene	ng/m³	-	-	2.11E-01	2.72E-02	1.09E+00	1.08E-01	1.07E-01	1.09E+00	8	100
Benzo(k)Fluoranthene	ng/m³	-	-	1.18E-01	1.18E-02	5.99E-01	7.53E-02	5.97E-02	5.99E-01	8	100
Biphenyl	ng/m³	-	-	3.97E+00	8.01E-01	1.22E+01	5.61E+00	3.09E+00	1.22E+01	8	100
Chrysene	ng/m³	-	-	2.76E-01	3.43E-02	1.55E+00	5.64E-02	9.72E-02	1.55E+00	8	100
Dibenzo(a,h)Anthracene	ng/m³	-	-	2.69E-02	3.31E-03	1.28E-01	2.81E-02	9.70E-03	1.28E-01	8	100
Fluoranthene	ng/m³	-	-	1.28E+00	2.53E-01	4.31E+00	1.92E+00	8.55E-01	4.31E+00	8	100
Fluorene	ng/m³	-	-	2.61E+00	3.91E-01	6.17E+00	5.61E+00	1.98E+00	6.17E+00	8	100
Indeno(1,2,3-cd)Pyrene	ng/m³	-	-	1.88E-01	2.44E-02	9.61E-01	1.06E-01	9.15E-02	9.61E-01	8	100
Naphthalene	ng/m³	22500	0	4.89E+01	8.14E+00	1.68E+02	6.56E+01	3.58E+01	1.68E+02	8	100
o-Terphenyl	ng/m³	-	-	2.30E-02	3.80E-03	5.34E-02	5.34E-02	1.50E-02	4.82E-02	8	100
Perylene	ng/m³	-	-	3.00E-02	1.53E-03	1.66E-01	1.23E-02	1.64E-02	1.66E-01	8	100
Phenanthrene	ng/m³	-	-	4.03E+00	9.05E-01	1.04E+01	7.40E+00	2.95E+00	1.04E+01	8	100
Pyrene	ng/m³	-	-	7.78E-01	1.71E-01	3.20E+00	7.96E-01	4.09E-01	3.20E+00	8	100
Tetralin	ng/m³	-	-	1.40E+01	1.63E+00	4.29E+01	4.29E+01	2.96E+00	1.75E+01	8	100
Total PAH	ng/m³	-	-	1.02E+02	1.59E+01	3.05E+02	1.28E+02	6.61E+01	3.05E+02	8	100

**Notes:** All non-detectable results were reported as 1/2 of the detection limit

## 5.8 Dioxin and Furan Results

All of the PUF Hi-Vols operated on a discrete schedule every 24 days for D&F's according to the NAPS schedule during Q4 with the sample days being: October 4, 28, November 21 and December 15.

### 5.8.1 Courtice Station Results

Data recovery levels were acceptable for the D&F results at the Courtice station (100% valid data). There were no exceedances of any of the AAQC's for any of the D&F's during Q4. **Table 11** is a summary of the statistics for this station.

**Table 11:** Courtice Station Q4 Monitoring Results for Dioxins and Furans

Contaminant	Units	MECP Criteria	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg/m <sup>3</sup>	-	-	1.37E-03	4.96E-04	1.79E-03	1.79E-03	1.55E-03	1.65E-03	4	100
1,2,3,7,8-PeCDD	pg/m <sup>3</sup>	-	-	1.43E-03	4.96E-04	2.38E-03	2.38E-03	2.05E-03	7.93E-04	4	100
1,2,3,4,7,8-HxCDD	pg/m <sup>3</sup>	-	-	2.66E-04	1.52E-04	3.84E-04	3.84E-04	3.32E-04	1.95E-04	4	100
1,2,3,6,7,8-HxCDD	pg/m <sup>3</sup>	-	-	4.51E-04	3.16E-04	7.87E-04	3.66E-04	3.16E-04	7.87E-04	4	100
1,2,3,7,8,9-HxCDD	pg/m <sup>3</sup>	-	-	2.96E-04	1.42E-04	3.66E-04	3.66E-04	3.16E-04	3.59E-04	4	100
1,2,3,4,6,7,8-HpCDD	pg/m <sup>3</sup>	-	-	3.08E-04	2.37E-04	4.21E-04	4.21E-04	2.37E-04	2.99E-04	4	100
OCDD	pg/m <sup>3</sup>	-	-	8.48E-05	5.18E-05	1.61E-04	5.39E-05	1.61E-04	7.23E-05	4	100
2,3,7,8-TCDF	pg/m <sup>3</sup>	-	-	1.82E-04	1.33E-04	2.38E-04	2.38E-04	2.05E-04	1.50E-04	4	100
1,2,3,7,8-PeCDF	pg/m <sup>3</sup>	-	-	6.74E-05	3.84E-05	9.43E-05	9.23E-05	3.84E-05	9.43E-05	4	100
2,3,4,7,8-PeCDF	pg/m <sup>3</sup>	-	-	1.26E-03	3.69E-04	3.80E-03	3.80E-03	3.69E-04	4.49E-04	4	100
1,2,3,4,7,8-HxCDF	pg/m <sup>3</sup>	-	-	3.30E-04	1.49E-04	5.08E-04	2.38E-04	5.08E-04	4.25E-04	4	100
1,2,3,6,7,8-HxCDF	pg/m <sup>3</sup>	-	-	2.19E-04	1.14E-04	3.52E-04	3.52E-04	1.89E-04	1.14E-04	4	100
2,3,4,6,7,8-HxCDF	pg/m <sup>3</sup>	-	-	2.46E-04	1.48E-04	3.93E-04	3.93E-04	2.05E-04	1.48E-04	4	100
1,2,3,7,8,9-HxCDF	pg/m <sup>3</sup>	-	-	1.80E-04	6.16E-05	2.93E-04	2.93E-04	2.53E-04	1.12E-04	4	100
1,2,3,4,6,7,8-HpCDF	pg/m <sup>3</sup>	-	-	1.34E-04	1.03E-04	1.62E-04	1.62E-04	1.03E-04	1.28E-04	4	100
1,2,3,4,7,8,9-HpCDF	pg/m <sup>3</sup>	-	-	2.31E-05	7.70E-06	4.04E-05	2.38E-05	2.05E-05	4.04E-05	4	100
OCDF	pg/m <sup>3</sup>	-	-	3.96E-06	2.32E-06	6.35E-06	6.35E-06	2.32E-06	4.49E-06	4	100
<b>Total Toxic Equivalency</b>	pg TEQ/m <sup>3</sup>	0.1 1 <sup>[1]</sup>	0	6.85E-03	5.82E-03	7.48E-03	7.48E-03	6.85E-03	5.82E-03	4	100

**Notes:** All non-detectable results were reported as 1/2 of the detection limit  
[1] O. Reg. 419/05 Schedule Upper Risk Thresholds



### 5.8.2 Rundle Road Station Results

Data recovery levels were acceptable for the D&F results at the Rundle Road station (100% valid data). There were no exceedances of any of the AAQC's Criteria for any of the D&Fs during Q4. **Table 12** is a summary of the statistics for this station.

**Table 12:** Rundle Road Station Q4 Monitoring Results for Dioxins and Furans

Contaminant	Units	MECP Criteria	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg/m <sup>3</sup>	-	-	1.46E-03	9.46E-04	1.95E-03	1.45E-03	1.48E-03	1.95E-03	4	100
1,2,3,7,8-PeCDD	pg/m <sup>3</sup>	-	-	2.87E-03	1.38E-03	6.74E-03	6.74E-03	1.40E-03	1.95E-03	4	100
1,2,3,4,7,8-HxCDD	pg/m <sup>3</sup>	-	-	4.01E-04	2.70E-04	7.43E-04	7.43E-04	2.99E-04	2.70E-04	4	100
1,2,3,6,7,8-HxCDD	pg/m <sup>3</sup>	-	-	7.07E-04	2.94E-04	1.82E-03	1.82E-03	2.99E-04	4.20E-04	4	100
1,2,3,7,8,9-HxCDD	pg/m <sup>3</sup>	-	-	8.67E-04	2.94E-04	1.50E-03	1.27E-03	1.50E-03	4.05E-04	4	100
1,2,3,4,6,7,8-HpCDD	pg/m <sup>3</sup>	-	-	1.26E-03	3.60E-04	2.63E-03	1.41E-03	2.63E-03	3.60E-04	4	100
OCDD	pg/m <sup>3</sup>	-	-	1.21E-04	5.89E-05	2.84E-04	7.62E-05	2.84E-04	6.55E-05	4	100
2,3,7,8-TCDF	pg/m <sup>3</sup>	-	-	3.43E-04	1.41E-04	7.93E-04	7.93E-04	2.20E-04	1.41E-04	4	100
1,2,3,7,8-PeCDF	pg/m <sup>3</sup>	-	-	8.21E-05	3.52E-05	1.94E-04	1.94E-04	3.58E-05	6.31E-05	4	100
2,3,4,7,8-PeCDF	pg/m <sup>3</sup>	-	-	2.76E-03	3.38E-04	8.19E-03	8.19E-03	3.44E-04	2.18E-03	4	100
1,2,3,4,7,8-HxCDF	pg/m <sup>3</sup>	-	-	5.11E-04	8.34E-05	1.18E-03	1.18E-03	8.49E-05	6.97E-04	4	100
1,2,3,6,7,8-HxCDF	pg/m <sup>3</sup>	-	-	3.49E-04	8.03E-05	9.96E-04	9.96E-04	8.17E-05	2.40E-04	4	100
2,3,4,6,7,8-HxCDF	pg/m <sup>3</sup>	-	-	1.35E-03	8.50E-05	4.78E-03	4.78E-03	8.64E-05	4.35E-04	4	100
1,2,3,7,8,9-HxCDF	pg/m <sup>3</sup>	-	-	4.10E-04	1.05E-04	1.11E-03	1.11E-03	1.07E-04	3.18E-04	4	100
1,2,3,4,6,7,8-HpCDF	pg/m <sup>3</sup>	-	-	4.40E-04	3.86E-05	1.44E-03	1.44E-03	3.93E-05	2.43E-04	4	100
1,2,3,4,7,8,9-HpCDF	pg/m <sup>3</sup>	-	-	6.71E-05	3.09E-05	1.58E-04	1.58E-04	3.14E-05	4.80E-05	4	100
OCDF	pg/m <sup>3</sup>	-	-	5.15E-06	2.69E-06	7.71E-06	7.47E-06	2.73E-06	7.71E-06	4	100
<b>Total Toxic Equivalency</b>	pg TEQ/m <sup>3</sup>	0.1 [1]	0	1.40E-02	5.42E-03	3.18E-02	3.18E-02	8.92E-03	9.80E-03	4	100

**Notes:** All non-detectable results were reported as 1/2 of the detection limit  
[1] O. Reg. 419/05 Schedule Upper Risk Thresholds



## 6 DATA REQUESTS

The following sections outline any instrumentation issues encountered that have caused data loss at any of the monitors at each of the stations.

**Appendix C** contains monthly IZS zero trends for the NO<sub>x</sub> and SO<sub>2</sub> analyzers at the Courtice and Rundle Road stations.

Edit logs identifying missing data, maintenance times, calibrations and any other missing data have been included in **Appendix D**.

### 6.1 Continuous Monitoring

On December 20, 2025, from 02:00 to 10:00, the Courtice station experienced a power outage affecting all monitors.

On December 29, 2025, from 10:00 to 14:00, the Courtice station experienced intermittent power issues affecting all monitors.

### 6.2 Discrete Monitoring

In Q4, there were no instances where the discrete monitoring instrumentation encountered issues that created data loss.

## 7 CONCLUSIONS

This Q4 report provides a summary of the ambient air quality data collected at the Courtice and Rundle Road stations. There were fifty-one (51) exceedance events of the rolling 10-minute SO<sub>2</sub> AAQC and thirty-two (32) exceedance events of the 1-hour SO<sub>2</sub> AAQC at the Courtice station. There were two (2) exceedances of the Benzo(a) Pyrene AAQC at the Courtice station and three (3) exceedances of the Benzo(a) Pyrene AAQC at the Rundle Road station. Data recovery rates were acceptable and valid for all measured Q4 continuous and discrete parameters at both stations.



## 8 REFERENCES

1. Canadian Council of Ministers of the Environment (CCME), 2012. Guidance Document on Achievement Determination Canadian Ambient Air Quality Standards for Fine Particulate Matter and Ozone. PN 1483 978-1-896997-91-9 PDF
2. Canadian Council of Ministers of the Environment (CCME), 2019. Guidance Document on Air Zone Management. PN 1593978-1-77202-050-2 PDF
3. Ontario Ministry of the Environment and Climate Change, 2018. [Technical Assessment and Standards Development Branch] Ontario Air Standards for Sulphur Dioxide (SO<sub>2</sub>). [Online]
4. Human Toxicology and Air Standards Section, Technical Assessment and Standards Development Branch, Ontario Ministry of the Environment, Conservation and Parks (MECP). 2020. Ontario's Ambient Air Quality Criteria. MECP, Toronto, ON, Canada.

## 9 GENERAL STATEMENT OF LIMITATIONS

This report entitled "2025 Q4 Ambient Air Quality Monitoring Report", dated February 13, 2026, was prepared by RWDI AIR Inc. ("RWDI") for The Regional Municipality of Durham ("Client"). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein ("Project"). This report was prepared using scientific principles, published methodologies and professional judgment in assessing available information and data. The findings presented within this document are based on available data within the limits of the existing information, budgeted scope of work, and schedule. The conclusions contained in this report are based on the information available to RWDI when this report was prepared; subsequent changes made by the Client after the date of this report have not been reflected in the conclusions.

This report was prepared for the exclusive use of The Regional Municipality of Durham and the MECP. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. RWDI accepts no responsibility for damages, if any, suffered by any third party as result of decisions made or actions based on this report.

The page features a decorative background. On the left, there is a blue right-angled triangle. A large, light grey circle overlaps the right side of the triangle and extends across the middle of the page. The text 'APPENDIX A' is centered within the grey circle.

APPENDIX A

**Table A1: 2025 Summary Statistics for Q4**

Courtice Monitoring Station Data Statistics	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean					Maximum 24 hr Rolling Mean					Monthly Mean					Valid Data					
Compound	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	
Units	ppb	(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(%)					
AAQC/CAAQS	67				200	40	27 <sup>A</sup>				100											
October	218.0	19.3	53.8	34.8	36.2	112.7	12.3	16.1	4.6	12.7	26.5	3.8	6.2	1.4	4.9	6.2	99.9	99.7	99.7	99.7	99.6	
November	157.2	40.3	84.8	64.0	29.3	79.4	18.0	23.8	6.3	17.7	14.6	3.9	7.7	1.6	6.1	3.4	99.7	99.4	99.4	99.4	99.4	
December	25.2	26.0	82.7	50.4	32.6	15.1	14.9	20.2	7.3	16.0	4.5	5.5	7.0	1.3	5.6	0.9	98.5	98.3	98.3	98.3	98.1	
Q4 Arithmetic Mean												4.4	7.0	1.4	5.5	3.5	99.4	99.1	99.1	99.1	99.0	

Rundle Monitoring Station Data Statistics	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean					Maximum 24 hr Rolling Mean					Monthly Mean					Valid Data					
Compound	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	SO <sub>2</sub>	
Units	ppb	(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(µg/m <sup>3</sup> )	ppb				(%)					
AAQC/CAAQS	67				200	40	27 <sup>A</sup>				100											
October	5.2	19.9	30.4	15.7	17.2	3.5	9.8	12.4	3.3	9.1	0.7	3.6	3.5	0.7	2.8	0.3	99.7	99.7	99.7	99.7	99.7	
November	1.5	29.7	46.7	29.7	26.7	1.3	16.2	23.8	5.1	11.7	0.7	4.3	5.6	1.1	4.6	0.5	99.7	99.4	99.4	99.4	99.7	
December	2.3	28.1	48.2	23.3	26.3	1.3	16.7	18.7	3.7	15.1	0.8	5.8	6.6	1.0	5.6	0.5	99.7	99.5	99.5	99.5	99.6	
Q4 Arithmetic Mean												4.5	5.2	0.9	4.3	0.4	99.7	99.5	99.5	99.5	99.7	

Event Statistics	Rolling Mean > 10 min AAQC for Courtice	Rolling Mean > 10 min AAQC for Rundle	Rolling Mean > 1 hr AAQC for Courtice	Rolling Mean > 1 hr AAQC for Rundle	Rolling Mean > 24 hr AAQC for Courtice Monitoring Station	Rolling Mean > 24 hr AAQC for Rundle Monitoring Station								
Compound	SO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
Units	No.	No.	No.		No.		No.		No.		No.		No.	
October	34	0		0	21		0	0	N/A	0		N/A	0	
November	17	0		0	11		0	0	N/A	0		N/A	0	
December	0	0		0	0		0	0	N/A	0		N/A	0	
Q4 Total	51	0		0	32		0	0	N/A	0		N/A	0	

Courtice Station MET Statistics	Maximum 1 hr Mean					Minimum 1 hr Mean					Monthly Mean					Total	Valid Data					
Parameter	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	WS	Temp	RH	Pres	Rain	Rain	WS	WD	Temp	RH	Pres	Rain
Units	(km/hr)	(°C)	(%)	"Hg	mm	(km/hr)	(°C)	(%)	"Hg	mm	(km/hr)	(°C)	(%)	"Hg	mm	mm	(%)					
October	27.5	24.5	100.0	30.3	9.6	0.6	0.9	31.0	29.1	0.0	11.0	12.1	73.8	29.8	0.1	58.3	100.0	100.0	100.0	100.0	100.0	100.0
November	46.9	14.9	100.0	30.2	1.9	0.3	-4.2	30.3	28.9	0.0	12.7	3.9	75.8	29.6	0.0	31.7	100.0	100.0	100.0	100.0	100.0	100.0
December	54.4	8.5	100.0	30.2	7.4	0.1	-13.8	38.7	28.8	0.0	15.7	-2.6	71.5	29.7	0.1	58.1	99.2	99.2	99.2	99.2	99.2	99.1
Q4 Arithmetic Mean											13.1	4.5	73.7	29.7	0.1	148.1	99.7	99.7	99.7	99.7	99.7	99.7

Rundle Station MET Statistics	Maximum 1 hr Mean				Minimum 1 hr Mean				Monthly Mean				Total	Valid Data				
Parameter	WS	Temp	RH	Rain	WS	Temp	RH	Rain	WS	Temp	RH	Rain	Rain	WS	WD	Temp	RH	Rain
Units	(km/hr)	(°C)	(%)	mm	(km/hr)	(°C)	(%)	mm	(km/hr)	(°C)	(%)	mm	mm	(%)				
October	21.8	25.6	100.0	9.2	0.0	-0.6	33.6	0.0	7.3	10.9	78.6	0.1	64.7	100.0	100.0	100.0	100.0	100.0
November	42.1	14.0	100.0	2.3	0.1	-5.3	33.2	0.0	10.4	2.9	80.1	0.1	37.0	100.0	100.0	100.0	100.0	100.0
December	43.8	7.5	100.0	7.0	0.2	-16.6	44.2	0.0	12.5	-3.7	75.7	0.1	55.6	100.0	100.0	100.0	100.0	99.9
Q4 Arithmetic Mean									10.1	3.4	78.1	0.1	157.3	100.0	100.0	100.0	100.0	100.0

A - PM2.5 CAAQS 3-year average of annual 98th percentile of the daily 24-hr average concentrations; this value is used "as is" for comparison to the 24-hour measurement of air quality data

**Table A2: 2025 Q4 Station Courtice Monitoring Results for PM2.5**

Data Statistics	Rolling Mean > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>
	No.	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	No.	%
October	N/A	3.8	19.3	12.3	743	99.9
November	N/A	3.9	40.3	18.0	718	99.7
December	N/A	5.5	26.0	14.9	733	98.5

**Table A3: 2025 Q4 Station Rundle Monitoring Results for PM2.5**

Data Statistics	Rolling Mean > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>
	No.	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	No.	%
October	N/A	3.6	19.9	9.8	742	99.7
November	N/A	4.3	29.7	16.2	718	99.7
December	N/A	5.8	28.1	16.7	742	99.7

**Table A4: 2025 Q4 Station Courtice Monitoring Results for NO<sub>x</sub>**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	N/A	N/A	6.2	53.8	16.1	742	99.7
November	N/A	N/A	7.7	84.8	23.8	716	99.4
December	N/A	N/A	7.0	82.7	20.2	731	98.3

**Table A5: 2025 Q4 Station Rundle Monitoring Results for NOx**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>	NO <sub>x</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	N/A	N/A	3.5	30.4	12.4	742	99.7
November	N/A	N/A	5.6	46.7	23.8	716	99.4
December	N/A	N/A	6.6	48.2	18.7	740	99.5

**Table A6: 2025 Q4 Station Courtice Monitoring Results for NO**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO	NO	NO	NO	NO	NO	NO
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	N/A	N/A	1.4	34.8	4.6	742	99.7
November	N/A	N/A	1.6	64.0	6.3	716	99.4
December	N/A	N/A	1.3	50.4	7.3	731	98.3

**Table A7: 2025 Q4 Station Rundle Monitoring Results for NO**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO	NO	NO	NO	NO	NO	NO
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	N/A	N/A	0.7	15.7	3.3	742	99.7
November	N/A	N/A	1.1	29.7	5.1	716	99.4
December	N/A	N/A	1.0	23.3	3.7	740	99.5

**Table A8: 2025 Q4 Station Courtice Monitoring Results for NO2**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	0	0	4.9	36.2	12.7	742	99.7
November	0	0	6.1	29.3	17.7	716	99.4
December	0	0	5.6	32.6	16.0	731	98.3

**Table A9: 2025 Q4 Station Rundle Monitoring Results for NO2**

Data Statistics	Events > 1 hr AAQC	Events > 24 hr AAQC	Arithmetic Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>	NO <sub>2</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	No.	%
October	0	0	2.8	17.2	9.1	742	99.7
November	0	0	4.6	26.7	11.7	716	99.4
December	0	0	5.6	26.3	15.1	740	99.5

**Table A10: 2025 Q4 Station Courtice Monitoring Results for SO<sub>2</sub>**

Data Statistics	Events > 10 min AAQC	Events > 1 hr AAQC	Arithmetic Mean	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	(ppb)	No.	%
October	34	21	6.2	218.0	112.7	26.5	741	99.6
November	17	11	3.4	157.2	79.4	14.6	716	99.4
December	0	0	0.9	25.2	15.1	4.5	730	98.1

**Table A11: 2025 Q4 Station Rundle Monitoring Results for SO2**

Data Statistics	Events > 10 min AAQC	Events > 1 hr AAQC	Arithmetic Mean	Maximum 10 min Rolling Mean	Maximum 1 hr Rolling Mean	Maximum 24 hr Rolling Mean	Number of Valid Hours	Valid Data
Month	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>	SO <sub>2</sub>
	No.	No.	(ppb)	(ppb)	(ppb)	(ppb)	No.	%
October	0	0	0.3	5.2	3.5	0.7	742	99.7
November	0	0	0.5	1.5	1.3	0.7	718	99.7
December	0	0	0.5	2.3	1.3	0.8	741	99.6

**Table A12: 2025 Q4 Courtice Meterological Station Windspeed Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Wind Speed	Wind Speed	Wind Speed	Wind Speed
	(km/hr)	(km/hr)	(km/hr)	(%)
October	27.5	0.6	11.0	100.0
November	46.9	0.3	12.7	100.0
December	54.4	0.1	15.7	99.2

**Table A13: 2025 Q4 Rundle Meterological Station Windspeed Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Hours</b>
Month	Wind Speed	Wind Speed	Wind Speed	Wind Speed
	(km/hr)	(km/hr)	(km/hr)	(%)
October	21.8	0.0	7.3	100.0
November	42.1	0.1	10.4	100.0
December	43.8	0.2	12.5	100.0

**Table A14: 2025 Q4 Courtice Meterological Station Wind Direction Data Summary**

MET Statistics	Valid Data
Month	Wind Direction (%)
October	100.0
November	100.0
December	99.2

**Table A15: 2025 Q4 Rundle Meterological Station Wind Direction Data Summary**

MET Statistics	Valid Data
Month	Wind Direction (%)
October	100.0
November	100.0
December	100.0

**Table A16: 2025 Q4 Courtice Meterological Station Temperature Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Temperature	Temperature	Temperature	Temperature
	(°C)	(°C)	(°C)	(%)
October	24.5	0.9	12.1	100.0
November	14.9	-4.2	3.9	100.0
December	8.5	-13.8	-2.6	99.2

**Table A17: 2025 Q4 Rundle Meterological Station Temperature Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Temperature	Temperature	Temperature	Temperature
	(°C)	(°C)	(°C)	(%)
October	25.6	-0.6	10.9	100.0
November	14.0	-5.3	2.9	100.0
December	7.5	-16.6	-3.7	100.0

**Table A18: 2025 Q4 Courtice Meterological Station Relative Humidity Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Relative Humidity	Relative Humidity	Relative Humidity	Relative Humidity
	(%)	(%)	(%)	(%)
October	100.0	31.0	73.8	100.0
November	100.0	30.3	75.8	100.0
December	100.0	38.7	71.5	99.2

**Table A19: 2025 Q4 Rundle Meterological Station Relative Humidity Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Relative Humidity	Relative Humidity	Relative Humidity	Relative Humidity
	(%)	(%)	(%)	(%)
October	100.0	33.6	78.6	100.0
November	100.0	33.2	80.1	100.0
December	100.0	44.2	75.7	100.0

**Table A20: 2025 Q4 Courtice Meterological Station Precipitation Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Total</b>	<b>Minimum 1 hr Total</b>	<b>Monthly Mean</b>	<b>Total</b>	<b>Valid Data</b>
Month	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation
	(mm)	(mm)	(mm)	(mm)	%
October	9.6	0.0	0.1	58.3	100.0
November	1.9	0.0	0.0	31.7	100.0
December	7.4	0.0	0.1	58.1	99.1

**Table A21: 2025 Q4 Rundle Meterological Station Precipitation Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Total</b>	<b>Minimum 1 hr Total</b>	<b>Monthly Mean</b>	<b>Total</b>	<b>Valid Data</b>
Month	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation
	(mm)	(mm)	(mm)	(mm)	%
October	9.2	0.0	0.1	64.7	100.0
November	2.3	0.0	0.1	37.0	100.0
December	7.0	0.0	0.1	55.6	99.9

**Table A22: 2025 Q4 Courtice Meterological Station Pressure Data Summary**

<b>MET Statistics</b>	<b>Maximum 1 hr Mean</b>	<b>Minimum 1 hr</b>	<b>Monthly Mean</b>	<b>Valid Data</b>
Month	Pressure	Pressure	Pressure	Pressure
	("Hg)	("Hg)	("Hg)	(%)
October	30.3	29.1	29.8	100.0
November	30.2	28.9	29.6	100.0
December	30.2	28.8	29.7	99.2

A large decorative graphic on the left side of the page, featuring a blue triangle at the top left corner and a large, light beige circular shape that overlaps the triangle and extends across the page.

# APPENDIX B

**Table B1: Summary of Sample Flow Rate and Sample Duration for Dioxins & Furans**

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m <sup>3</sup> )	No.	(min)	(m <sup>3</sup> )
October 4, 2025	BU2502826-002	1440	292	BU2502826-001	1440	301
October 28, 2025	BU2503056-002	1440	273	BU2503056-001	1440	324
November 21, 2025	BU2503307-002	1440	317	BU2503307-001	1440	318
December 15, 2025	BU2503546-002	1440	334	BU2503546-001	1440	333

**Table B2: 2025 Courtice Station Q4 Monitoring Results for Dioxins & Furans**

Contaminant	Units	4 Oct 25	28 Oct 25	21 Nov 25	15 Dec 25	MECP Criteria	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg TEQ/m <sup>3</sup>	4.96E-04	1.79E-03	1.55E-03	1.65E-03	-	-	1.37E-03	4.96E-04	1.79E-03	1.79E-03	1.55E-03	1.65E-03	4	100
1,2,3,7,8-PeCDD	pg TEQ/m <sup>3</sup>	4.96E-04	2.38E-03	2.05E-03	7.93E-04	-	-	1.43E-03	4.96E-04	2.38E-03	2.38E-03	2.05E-03	7.93E-04	4	100
1,2,3,4,7,8-HxCDD	pg TEQ/m <sup>3</sup>	1.52E-04	3.84E-04	3.32E-04	1.95E-04	-	-	2.66E-04	1.52E-04	3.84E-04	3.84E-04	3.32E-04	1.95E-04	4	100
1,2,3,6,7,8-HxCDD	pg TEQ/m <sup>3</sup>	3.37E-04	3.66E-04	3.16E-04	7.87E-04	-	-	4.51E-04	3.16E-04	7.87E-04	3.66E-04	3.16E-04	7.87E-04	4	100
1,2,3,7,8,9-HxCDD	pg TEQ/m <sup>3</sup>	1.42E-04	3.66E-04	3.16E-04	3.59E-04	-	-	2.96E-04	1.42E-04	3.66E-04	3.66E-04	3.16E-04	3.59E-04	4	100
1,2,3,4,6,7,8-HpCDD	pg TEQ/m <sup>3</sup>	4.21E-04	2.74E-04	2.37E-04	2.99E-04	-	-	3.08E-04	2.37E-04	4.21E-04	4.21E-04	2.37E-04	2.99E-04	4	100
OCDD	pg TEQ/m <sup>3</sup>	5.18E-05	5.39E-05	1.61E-04	7.23E-05	-	-	8.48E-05	5.18E-05	1.61E-04	5.39E-05	1.61E-04	7.23E-05	4	100
2,3,7,8-TCDF	pg TEQ/m <sup>3</sup>	1.33E-04	2.38E-04	2.05E-04	1.50E-04	-	-	1.82E-04	1.33E-04	2.38E-04	2.38E-04	2.05E-04	1.50E-04	4	100
1,2,3,7,8-PeCDF	pg TEQ/m <sup>3</sup>	9.23E-05	4.44E-05	3.84E-05	9.43E-05	-	-	6.74E-05	3.84E-05	9.43E-05	9.23E-05	3.84E-05	9.43E-05	4	100
2,3,4,7,8-PeCDF	pg TEQ/m <sup>3</sup>	3.80E-03	4.28E-04	3.69E-04	4.49E-04	-	-	1.26E-03	3.69E-04	3.80E-03	3.80E-03	3.69E-04	4.49E-04	4	100
1,2,3,4,7,8-HxCDF	pg TEQ/m <sup>3</sup>	1.49E-04	2.38E-04	5.08E-04	4.25E-04	-	-	3.30E-04	1.49E-04	5.08E-04	2.38E-04	5.08E-04	4.25E-04	4	100
1,2,3,6,7,8-HxCDF	pg TEQ/m <sup>3</sup>	3.52E-04	2.19E-04	1.89E-04	1.14E-04	-	-	2.19E-04	1.14E-04	3.52E-04	3.52E-04	1.89E-04	1.14E-04	4	100
2,3,4,6,7,8-HxCDF	pg TEQ/m <sup>3</sup>	3.93E-04	2.38E-04	2.05E-04	1.48E-04	-	-	2.46E-04	1.48E-04	3.93E-04	3.93E-04	2.05E-04	1.48E-04	4	100
1,2,3,7,8,9-HxCDF	pg TEQ/m <sup>3</sup>	6.16E-05	2.93E-04	2.53E-04	1.12E-04	-	-	1.80E-04	6.16E-05	2.93E-04	2.93E-04	2.53E-04	1.12E-04	4	100
1,2,3,4,6,7,8-HpCDF	pg TEQ/m <sup>3</sup>	1.62E-04	1.42E-04	1.03E-04	1.28E-04	-	-	1.34E-04	1.03E-04	1.62E-04	1.62E-04	1.03E-04	1.28E-04	4	100
1,2,3,4,7,8,9-HpCDF	pg TEQ/m <sup>3</sup>	7.70E-06	2.38E-05	2.05E-05	4.04E-05	-	-	2.31E-05	7.70E-06	4.04E-05	2.38E-05	2.05E-05	4.04E-05	4	100
OCDF	pg TEQ/m <sup>3</sup>	6.35E-06	2.69E-06	2.32E-06	4.49E-06	-	-	3.96E-06	2.32E-06	6.35E-06	6.35E-06	2.32E-06	4.49E-06	4	100
Total Toxic Equivalency	pg TEQ/m <sup>3</sup>	7.25E-03	7.48E-03	6.85E-03	5.82E-03	0.1	0	6.85E-03	5.82E-03	7.48E-03	7.48E-03	6.85E-03	5.82E-03	4	100

**NOTE:** All non-detectable results were reported as 1/2 of the detection limit

**Table B3: 2025 Rundle Road Station Q4 Monitoring Results for Dioxins & Furans**

Contaminant	Units	4 Oct 25	28 Oct 25	21 Nov 25	15 Dec 25	MECP Criteria	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
2,3,7,8-TCDD	pg TEQ/m <sup>3</sup>	9.46E-04	1.45E-03	1.48E-03	1.95E-03	-	-	1.46E-03	9.46E-04	1.95E-03	1.45E-03	1.48E-03	1.95E-03	4	100
1,2,3,7,8-PeCDD	pg TEQ/m <sup>3</sup>	6.74E-03	1.38E-03	1.40E-03	1.95E-03	-	-	2.87E-03	1.38E-03	6.74E-03	6.74E-03	1.40E-03	1.95E-03	4	100
1,2,3,4,7,8-HxCDD	pg TEQ/m <sup>3</sup>	7.43E-04	2.94E-04	2.99E-04	2.70E-04	-	-	4.01E-04	2.70E-04	7.43E-04	7.43E-04	2.99E-04	2.70E-04	4	100
1,2,3,6,7,8-HxCDD	pg TEQ/m <sup>3</sup>	1.82E-03	2.94E-04	2.99E-04	4.20E-04	-	-	7.07E-04	2.94E-04	1.82E-03	1.82E-03	2.99E-04	4.20E-04	4	100
1,2,3,7,8,9-HxCDD	pg TEQ/m <sup>3</sup>	1.27E-03	2.94E-04	1.50E-03	4.05E-04	-	-	8.67E-04	2.94E-04	1.50E-03	1.27E-03	1.50E-03	4.05E-04	4	100
1,2,3,4,6,7,8-HpCDD	pg TEQ/m <sup>3</sup>	1.41E-03	6.40E-04	2.63E-03	3.60E-04	-	-	1.26E-03	3.60E-04	2.63E-03	1.41E-03	2.63E-03	3.60E-04	4	100
OCDD	pg TEQ/m <sup>3</sup>	7.62E-05	5.89E-05	2.84E-04	6.55E-05	-	-	1.21E-04	5.89E-05	2.84E-04	7.62E-05	2.84E-04	6.55E-05	4	100
2,3,7,8-TCDF	pg TEQ/m <sup>3</sup>	7.93E-04	2.16E-04	2.20E-04	1.41E-04	-	-	3.43E-04	1.41E-04	7.93E-04	7.93E-04	2.20E-04	1.41E-04	4	100
1,2,3,7,8-PeCDF	pg TEQ/m <sup>3</sup>	1.94E-04	3.52E-05	3.58E-05	6.31E-05	-	-	8.21E-05	3.52E-05	1.94E-04	1.94E-04	3.58E-05	6.31E-05	4	100
2,3,4,7,8-PeCDF	pg TEQ/m <sup>3</sup>	8.19E-03	3.38E-04	3.44E-04	2.18E-03	-	-	2.76E-03	3.38E-04	8.19E-03	8.19E-03	3.44E-04	2.18E-03	4	100
1,2,3,4,7,8-HxCDF	pg TEQ/m <sup>3</sup>	1.18E-03	8.34E-05	8.49E-05	6.97E-04	-	-	5.11E-04	8.34E-05	1.18E-03	1.18E-03	8.49E-05	6.97E-04	4	100
1,2,3,6,7,8-HxCDF	pg TEQ/m <sup>3</sup>	9.96E-04	8.03E-05	8.17E-05	2.40E-04	-	-	3.49E-04	8.03E-05	9.96E-04	9.96E-04	8.17E-05	2.40E-04	4	100
2,3,4,6,7,8-HxCDF	pg TEQ/m <sup>3</sup>	4.78E-03	8.50E-05	8.64E-05	4.35E-04	-	-	1.35E-03	8.50E-05	4.78E-03	4.78E-03	8.64E-05	4.35E-04	4	100
1,2,3,7,8,9-HxCDF	pg TEQ/m <sup>3</sup>	1.11E-03	1.05E-04	1.07E-04	3.18E-04	-	-	4.10E-04	1.05E-04	1.11E-03	1.11E-03	1.07E-04	3.18E-04	4	100
1,2,3,4,6,7,8-HpCDF	pg TEQ/m <sup>3</sup>	1.44E-03	3.86E-05	3.93E-05	2.43E-04	-	-	4.40E-04	3.86E-05	1.44E-03	1.44E-03	3.93E-05	2.43E-04	4	100
1,2,3,4,7,8,9-HpCDF	pg TEQ/m <sup>3</sup>	1.58E-04	3.09E-05	3.14E-05	4.80E-05	-	-	6.71E-05	3.09E-05	1.58E-04	1.58E-04	3.14E-05	4.80E-05	4	100
OCDF	pg TEQ/m <sup>3</sup>	7.47E-06	2.69E-06	2.73E-06	7.71E-06	-	-	5.15E-06	2.69E-06	7.71E-06	7.47E-06	2.73E-06	7.71E-06	4	100
Total Toxic Equivalency	pg TEQ/m <sup>3</sup>	3.18E-02	5.42E-03	8.92E-03	9.80E-03	0.1	0	1.40E-02	5.42E-03	3.18E-02	3.18E-02	8.92E-03	9.80E-03	4	100

NOTE: All non-detectable results were reported as 1/2 of the detection limit

**Table B4: Summary of Sample Flow Rate and Sample Duration for PAHs**

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
October 4, 2025	BU2502826-002	1440	292	BU2502826-001	1440	301
October 16, 2025	BU2502939-001	1440	299	BU2502939-002	1438	326
October 28, 2025	BU2503056-002	1440	273	BU2503056-001	1440	324
November 9, 2025	BU2503187-002	1440	316	BU2503187-001	1440	317
November 21, 2025	BU2503307-002	1440	317	BU2503307-001	1440	318
December 3, 2025	BU2503429-001	1440	319	BU2503429-002	1440	334
December 15, 2025	BU2503546-002	1440	334	BU2503546-001	1440	333
December 27, 2025	BU2503592-001	1440	332	BU2503592-002	1440	324

**Table B5: 2025 Courtice Station Q4 Monitoring Results for PAHs**

Contaminant	Units	MECP Criteria	4 Oct 25	16 Oct 25	28 Oct 25	9 Nov 25	21 Nov 25	3 Dec 25	15 Dec 25	27 Dec 25	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-	8.00E+00	4.85E+00	3.96E+00	1.38E+00	6.40E+00	2.42E+01	4.34E+00	3.45E+00	-	7.59E+00	1.38E+00	2.42E+01	8.00E+00	6.40E+00	2.42E+01	8	100
2-Methylnaphthalene	ng/m3	-	1.23E+01	7.99E+00	5.82E+00	1.88E+00	9.68E+00	7.65E+01	6.86E+00	5.12E+00	-	1.73E+01	1.88E+00	7.65E+01	1.23E+01	9.68E+00	7.65E+01	8	100
Acenaphthene	ng/m3	-	1.24E+01	4.28E+00	1.16E+00	6.68E-01	1.85E+00	9.97E+00	5.24E-01	5.00E-01	-	4.41E+00	5.00E-01	1.24E+01	1.24E+01	1.85E+00	9.97E+00	8	100
Acenaphthylene	ng/m3	-	3.80E-01	2.37E-01	1.78E-01	1.84E-01	9.27E-01	1.27E+00	2.96E-01	2.38E-01	-	4.96E-01	1.78E-01	1.27E+00	3.80E-01	9.27E-01	1.27E+00	8	100
Anthracene	ng/m3	-	2.66E-01	1.58E-01	5.75E-02	6.20E-02	1.29E-01	4.98E-01	1.58E-01	7.24E-02	-	1.90E-01	5.75E-02	4.98E-01	2.66E-01	1.29E-01	4.98E-01	8	100
Benzo(a)Anthracene	ng/m3	-	3.29E-02	6.02E-03	1.32E-02	9.40E-03	4.16E-02	2.77E-01	2.80E-02	2.81E-02	-	5.83E-02	6.02E-03	2.77E-01	3.29E-02	4.16E-02	2.77E-01	8	100
Benzo(a)fluorene	ng/m3	-	2.96E-02	1.35E-02	1.27E-02	1.49E-02	3.66E-02	2.09E-01	3.95E-02	2.08E-02	-	5.08E-02	1.27E-02	2.09E-01	2.96E-02	3.66E-02	2.09E-01	8	100
Benzo(a)Pyrene	ng/m3	0.05	4.41E-02	8.49E-03	1.94E-02	1.10E-02	5.24E-02	1.72E-01	3.17E-02	3.02E-02	2	4.84E-02	8.49E-03	1.72E-01	4.41E-02	5.24E-02	1.72E-01	8	100
Benzo(b)Fluoranthene	ng/m3	-	1.01E-01	2.29E-02	3.36E-02	1.03E-01	1.14E-01	6.24E-01	8.71E-02	1.30E-01	-	1.55E-01	2.29E-02	6.24E-01	1.01E-01	1.14E-01	6.24E-01	8	100
Benzo(b)fluorene	ng/m3	-	1.70E-02	6.95E-03	6.30E-03	7.50E-03	1.83E-02	1.24E-01	2.36E-02	9.20E-03	-	2.91E-02	6.30E-03	1.24E-01	1.70E-02	1.83E-02	1.24E-01	8	100
Benzo(e)Pyrene	ng/m3	-	6.63E-02	1.83E-02	2.85E-02	4.30E-02	8.52E-02	4.29E-01	6.56E-02	9.88E-02	-	1.05E-01	1.83E-02	4.29E-01	6.63E-02	8.52E-02	4.29E-01	8	100
Benzo(g,h,i)Perylene	ng/m3	-	7.15E-02	2.16E-02	3.66E-02	4.08E-02	1.00E-01	3.54E-01	7.72E-02	9.61E-02	-	1.00E-01	2.16E-02	3.54E-01	7.15E-02	1.00E-01	3.54E-01	8	100
Benzo(k)Fluoranthene	ng/m3	-	4.69E-02	8.39E-03	1.24E-02	4.02E-02	4.98E-02	2.27E-01	4.22E-02	5.18E-02	-	6.10E-02	8.39E-03	2.27E-01	4.69E-02	4.98E-02	2.27E-01	8	100
Biphenyl	ng/m3	-	3.93E+00	2.20E+00	1.43E+00	9.87E-01	3.25E+00	1.19E+01	1.90E+00	2.00E+00	-	3.66E+00	9.87E-01	1.19E+01	3.93E+00	3.25E+00	1.19E+01	8	100
Chrysene	ng/m3	-	8.28E-02	2.99E-02	4.54E-02	8.58E-02	9.68E-02	6.80E-01	4.61E-02	1.02E-01	-	1.52E-01	2.99E-02	6.80E-01	8.28E-02	9.68E-02	6.80E-01	8	100
Dibenzo(a,h)Anthracene	ng/m3	-	1.80E-02	3.84E-03	7.80E-03	2.44E-02	9.90E-03	4.04E-02	5.00E-03	7.80E-03	-	1.56E-02	3.84E-03	4.04E-02	1.80E-02	2.44E-02	4.04E-02	8	100
Fluoranthene	ng/m3	-	1.46E+00	5.62E-01	3.39E-01	3.12E-01	6.44E-01	3.23E+00	7.31E-01	5.76E-01	-	1.04E+00	3.12E-01	3.23E+00	1.46E+00	6.44E-01	3.23E+00	8	100
Fluorene	ng/m3	-	4.55E+00	2.44E+00	8.28E-01	5.60E-01	1.36E+00	6.46E+00	1.04E+00	8.97E-01	-	2.46E+00	5.60E-01	6.46E+00	4.55E+00	1.36E+00	6.46E+00	8	100
Indeno(1,2,3-cd)Pyrene	ng/m3	-	6.81E-02	1.27E-02	2.68E-02	5.03E-02	7.82E-02	3.17E-01	6.47E-02	9.30E-02	-	8.83E-02	1.27E-02	3.17E-01	6.81E-02	7.82E-02	3.17E-01	8	100
Naphthalene	ng/m3	22500	5.44E+01	7.55E+01	9.89E+00	9.18E+00	3.28E+01	2.92E+02	2.25E+01	2.04E+01	0	7.09E+01	9.18E+00	2.92E+02	7.55E+01	3.28E+01	2.92E+02	8	100
o-Terphenyl	ng/m3	-	3.00E-02	6.52E-03	8.40E-03	4.70E-03	1.53E-02	5.89E-02	1.18E-02	1.14E-02	-	1.94E-02	4.70E-03	5.89E-02	3.00E-02	1.53E-02	5.89E-02	8	100
Perylene	ng/m3	-	5.51E-03	1.67E-03	3.90E-03	3.45E-03	1.47E-02	3.42E-02	6.10E-03	5.80E-03	-	9.93E-03	1.67E-03	3.42E-02	5.51E-03	1.47E-02	3.42E-02	8	100
Phenanthrene	ng/m3	-	6.29E+00	2.63E+00	1.28E+00	1.11E+00	2.00E+00	8.46E+00	2.46E+00	2.15E+00	-	3.46E+00	1.11E+00	8.46E+00	6.29E+00	2.00E+00	8.46E+00	8	100
Pyrene	ng/m3	-	5.30E-01	2.80E-01	1.82E-01	2.03E-01	3.63E-01	2.11E+00	5.21E-01	3.02E-01	-	5.99E-01	1.82E-01	2.11E+00	5.30E-01	3.63E-01	2.11E+00	8	100
Tetralin	ng/m3	-	5.75E+01	4.35E+01	2.17E+00	1.97E+00	3.82E+00	1.80E+01	2.11E+00	1.73E+00	-	1.84E+01	1.73E+00	5.75E+01	5.75E+01	3.82E+00	1.80E+01	8	100
Total PAH[3]	ng/m3	-	1.63E+02	1.45E+02	2.75E+01	1.89E+01	6.39E+01	4.58E+02	4.40E+01	3.81E+01	-	1.31E+02	1.89E+01	4.58E+02	1.63E+02	6.39E+01	4.58E+02	8	100

**NOTE:** All non-detectable results were reported as 1/2 of the detection limit

**Table B6: 2025 Rundle Road Station Q4 Monitoring Results for PAHs**

Contaminant	Units	MECP Criteria	4 Oct 25	16 Oct 25	28 Oct 25	9 Nov 25	21 Nov 25	3 Dec 25	15 Dec 25	27 Dec 25	No. > Criteria	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
1-Methylnaphthalene	ng/m3	-	9.06E+00	3.43E+00	5.90E+00	1.11E+00	5.53E+00	2.48E+01	4.89E+00	3.18E+00	-	7.82E+00	1.11E+00	2.48E+01	9.06E+00	5.53E+00	2.48E+01	8	100
2-Methylnaphthalene	ng/m3	-	1.24E+01	5.09E+00	8.40E+00	1.40E+00	7.77E+00	3.95E+01	7.60E+00	4.63E+00	-	1.17E+01	1.40E+00	3.95E+01	1.24E+01	7.77E+00	3.95E+01	8	100
Acenaphthene	ng/m3	-	1.21E+01	3.43E+00	1.61E+00	2.34E-01	3.30E+00	6.77E+00	7.51E-01	4.63E-01	-	4.03E+00	2.34E-01	1.21E+01	1.21E+01	3.30E+00	6.77E+00	8	100
Acenaphthylene	ng/m3	-	4.71E-01	1.75E-01	1.80E-01	1.53E-01	4.94E-01	2.28E+00	2.78E-01	2.56E-01	-	5.76E-01	1.53E-01	2.28E+00	4.71E-01	4.94E-01	2.28E+00	8	100
Anthracene	ng/m3	-	3.95E-01	1.94E-01	8.83E-02	4.57E-02	1.75E-01	8.29E-01	9.88E-02	8.55E-02	-	2.61E-01	4.57E-02	8.29E-01	3.95E-01	1.75E-01	8.29E-01	8	100
Benzo(a)Anthracene	ng/m3	-	5.51E-02	1.29E-02	1.19E-02	1.24E-02	5.38E-02	9.64E-01	4.29E-02	4.29E-02	-	1.65E-01	1.19E-02	9.64E-01	5.51E-02	5.38E-02	9.64E-01	8	100
Benzo(a)fluorene	ng/m3	-	4.61E-02	1.38E-02	1.16E-02	1.18E-02	3.90E-02	5.96E-01	3.00E-02	2.25E-02	-	1.07E-01	1.16E-02	5.96E-01	4.61E-02	3.90E-02	5.96E-01	8	100
Benzo(a)Pyrene	ng/m3	0.05	6.77E-02	1.63E-02	1.72E-02	1.97E-02	6.76E-02	8.89E-01	3.78E-02	4.60E-02	3	1.59E-01	1.63E-02	8.89E-01	6.77E-02	6.76E-02	8.89E-01	8	100
Benzo(b)Fluoranthene	ng/m3	-	1.42E-01	3.05E-02	3.18E-02	4.01E-02	1.30E-01	1.24E+00	9.67E-02	1.48E-01	-	2.44E-01	3.05E-02	1.24E+00	1.42E-01	1.30E-01	1.24E+00	8	100
Benzo(b)fluorene	ng/m3	-	2.64E-02	1.13E-02	5.80E-03	5.60E-03	1.96E-02	2.29E-01	1.57E-02	1.19E-02	-	4.48E-02	5.60E-03	2.29E-01	2.64E-02	1.96E-02	2.29E-01	8	100
Benzo(e)Pyrene	ng/m3	-	9.59E-02	2.27E-02	2.35E-02	2.58E-02	9.78E-02	1.01E+00	8.11E-02	1.12E-01	-	1.94E-01	2.27E-02	1.01E+00	9.59E-02	9.78E-02	1.01E+00	8	100
Benzo(g,h,i)Perylene	ng/m3	-	1.08E-01	2.72E-02	2.98E-02	3.19E-02	1.07E-01	1.09E+00	8.59E-02	1.15E-01	-	2.11E-01	2.72E-02	1.09E+00	1.08E-01	1.07E-01	1.09E+00	8	100
Benzo(k)Fluoranthene	ng/m3	-	7.53E-02	1.18E-02	1.41E-02	1.46E-02	5.97E-02	5.99E-01	5.38E-02	6.79E-02	-	1.18E-01	1.18E-02	5.99E-01	7.53E-02	5.97E-02	5.99E-01	8	100
Biphenyl	ng/m3	-	5.61E+00	1.66E+00	2.31E+00	8.01E-01	3.09E+00	1.22E+01	2.15E+00	2.05E+00	-	3.97E+00	8.01E-01	1.22E+01	5.61E+00	3.09E+00	1.22E+01	8	100
Chrysene	ng/m3	-	5.64E-02	3.74E-02	3.43E-02	3.91E-02	9.72E-02	1.55E+00	1.20E-01	1.17E-01	-	2.76E-01	3.43E-02	1.55E+00	5.64E-02	9.72E-02	1.55E+00	8	100
Dibenzo(a,h)Anthracene	ng/m3	-	2.81E-02	3.31E-03	5.90E-03	9.70E-03	3.60E-03	1.28E-01	9.50E-03	9.70E-03	-	2.69E-02	3.31E-03	1.28E-01	2.81E-02	9.70E-03	1.28E-01	8	100
Fluoranthene	ng/m3	-	1.92E+00	6.19E-01	4.51E-01	2.53E-01	8.55E-01	4.31E+00	5.35E-01	6.11E-01	-	1.28E+00	2.53E-01	4.31E+00	1.92E+00	8.55E-01	4.31E+00	8	100
Fluorene	ng/m3	-	5.61E+00	1.98E+00	1.19E+00	3.91E-01	1.98E+00	6.17E+00	9.58E-01	9.44E-01	-	2.61E+00	3.91E-01	6.17E+00	5.61E+00	1.98E+00	6.17E+00	8	100
Indeno(1,2,3-cd)Pyrene	ng/m3	-	1.06E-01	2.44E-02	2.62E-02	3.38E-02	9.15E-02	9.61E-01	7.21E-02	1.11E-01	-	1.88E-01	2.44E-02	9.61E-01	1.06E-01	9.15E-02	9.61E-01	8	100
Naphthalene	ng/m3	22500	33.52	65.57	10.70	8.14E+00	3.58E+01	1.68E+02	2.05E+01	2.10E+01	0	4.89E+01	8.14E+00	1.68E+02	6.56E+01	3.58E+01	1.68E+02	8	100
o-Terphenyl	ng/m3	-	5.34E-02	6.19E-03	2.52E-02	3.80E-03	1.50E-02	4.82E-02	9.20E-03	1.13E-02	-	2.30E-02	3.80E-03	5.34E-02	5.34E-02	1.50E-02	4.82E-02	8	100
Perylene	ng/m3	-	1.23E-02	1.53E-03	3.70E-03	4.30E-03	1.64E-02	1.66E-01	5.90E-03	8.20E-03	-	3.00E-02	1.53E-03	1.66E-01	1.23E-02	1.64E-02	1.66E-01	8	100
Phenanthrene	ng/m3	-	7.40E+00	2.60E+00	1.79E+00	9.05E-01	2.95E+00	1.04E+01	2.19E+00	2.33E+00	-	4.03E+00	9.05E-01	1.04E+01	7.40E+00	2.95E+00	1.04E+01	8	100
Pyrene	ng/m3	-	7.96E-01	2.94E-01	2.12E-01	1.71E-01	4.09E-01	3.20E+00	3.63E-01	3.06E-01	-	7.78E-01	1.71E-01	3.20E+00	7.96E-01	4.09E-01	3.20E+00	8	100
Tetralin	ng/m3	-	2.86E+01	4.29E+01	2.20E+00	2.00E+00	2.96E+00	1.75E+01	2.14E+00	1.63E+00	-	1.40E+01	1.63E+00	4.29E+01	4.29E+01	2.96E+00	1.75E+01	8	100
Total PAH[3]	ng/m3	-	1.19E+02	1.28E+02	3.53E+01	1.59E+01	6.61E+01	3.05E+02	4.31E+01	3.83E+01	-	1.02E+02	1.59E+01	3.05E+02	1.28E+02	6.61E+01	3.05E+02	8	100

**NOTE:** All non-detectable results were reported as 1/2 of the detection limit

**Table B7: Summary of Sample Flow Rate and Sample Duration for TSP & Metals**

Sample Date	Courtice			Rundle		
	Filter ID	Sample Duration	Sample Volume	Filter ID	Sample Duration	Sample Volume
	No.	(min)	(m3)	No.	(min)	(m3)
October 4, 2025	BU2502827-004	1440	1648	BU2502827-002	1440	1652
October 10, 2025	BU2502940-002	1440	1612	BU2502940-003	1440	1665
October 16, 2025	BU2502940-001	1440	1687	BU2502940-004	1438	1705
October 22, 2025	BU2503057-004	1440	1670	BU2503057-002	1440	1659
October 28, 2025	BU2503057-003	1440	1684	BU2503057-001	1440	1671
November 3, 2025	BU2503188-004	1440	1686	BU2503188-002	1440	1665
November 9, 2025	BU2503188-003	1440	1754	BU2503188-001	1440	1727
November 15, 2025	BU2503308-002	1440	1743	BU2503308-001	1440	1690
November 21, 2025	BU2503430-003	1440	1711	BU2503430-006	1440	1683
November 27, 2025	BU2503430-002	1438	1725	BU2503430-005	1440	1593
December 3, 2025	BU2503430-001	1440	1759	BU2503430-004	1440	1643
December 9, 2025	BU2503593-003	1440	1729	BU2503547-001	1438	1667
December 15, 2025	BU2503547-003	1440	1692	BU2503547-002	1440	1688
December 21, 2025	BU2503593-002	1440	1664	BU2503593-005	1440	1668
December 27, 2025	BU2503593-001	1440	1698	BU2503593-004	1440	1656

Table B8: 2025 Courtice Station Q4 Monitoring Results for TSP and Metals

Contaminant	Units	4 Oct 25	10 Oct 25	16 Oct 25	22 Oct 25	28 Oct 25	3 Nov 25	9 Nov 25	15 Nov 25	21 Nov 25	27 Nov 25	3 Dec 25	9 Dec 25	15 Dec 25	21 Dec 25	27 Dec 25	MECP Criteria (µg/m3)	No. > Criteria	Geometric Mean	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
Total particulate	µg/m3	45.26	14.26	11.92	8.68	22.51	13.64	10.09	10.62	20.04	6.84	17.00	11.63	13.77	9.67	12.13	120	0	13.6	15.2	6.84	45.26	45.26	20.04	17.00	15	100
Aluminum (Al)	µg/m3	2.36E-01	1.15E-01	1.39E-01	1.30E-01	2.48E-01	8.90E-02	7.70E-02	6.08E-02	1.02E-01	6.20E-02	6.42E-02	7.87E-02	1.35E-01	9.85E-02	5.32E-02	-	-	1.01E-01	1.13E-01	5.32E-02	2.48E-01	2.48E-01	1.02E-01	1.35E-01	15	100
Antimony (Sb)	µg/m3	2.28E-03	7.50E-04	1.35E-03	1.08E-03	1.10E-03	8.36E-04	3.48E-04	6.71E-04	2.27E-03	4.00E-03	9.15E-04	1.04E-03	1.35E-03	3.96E-04	2.51E-03	25	0	1.13E-03	1.39E-03	3.48E-04	4.00E-03	2.28E-03	4.00E-03	2.51E-03	15	100
Arsenic (As)	µg/m3	3.03E-03	9.30E-04	8.89E-04	8.98E-04	8.91E-04	8.90E-04	8.55E-04	8.61E-04	8.76E-04	8.69E-04	8.53E-04	8.68E-04	8.68E-04	9.01E-04	8.83E-04	0.3	0	9.56E-04	1.02E-03	8.53E-04	3.03E-03	3.03E-03	8.90E-04	9.01E-04	15	100
Barium (Ba)	µg/m3	1.61E-02	8.62E-03	1.45E-02	1.35E-02	8.32E-03	6.17E-03	2.49E-03	5.22E-03	2.12E-02	3.64E-03	7.73E-03	6.02E-03	1.02E-02	3.53E-03	3.09E-03	10	0	7.20E-03	8.69E-03	2.49E-03	2.12E-02	1.61E-02	2.12E-02	1.02E-02	15	100
Beryllium (Be)	µg/m3	1.52E-05	1.55E-05	1.48E-05	1.50E-05	1.48E-05	1.48E-05	1.43E-05	1.43E-05	1.46E-05	1.45E-05	1.42E-05	1.45E-05	1.45E-05	1.50E-05	1.47E-05	0.01	0	1.47E-05	1.47E-05	1.42E-05	1.55E-05	1.55E-05	1.48E-05	1.50E-05	15	100
Bismuth (Bi)	µg/m3	5.46E-04	5.58E-04	5.34E-04	5.39E-04	5.35E-04	5.34E-04	5.13E-04	5.16E-04	5.26E-04	5.22E-04	5.12E-04	5.21E-04	5.21E-04	5.41E-04	5.30E-04	-	-	5.30E-04	5.30E-04	5.12E-04	5.58E-04	5.58E-04	5.34E-04	5.41E-04	15	100
Boron (B)	µg/m3	4.55E-03	4.65E-03	4.45E-03	4.49E-03	4.45E-03	4.45E-03	4.28E-03	4.30E-03	4.38E-03	4.35E-03	4.26E-03	4.34E-03	4.34E-03	4.51E-03	4.42E-03	120	0	4.41E-03	4.41E-03	4.26E-03	4.65E-03	4.65E-03	4.45E-03	4.51E-03	15	100
Cadmium (Cd)	µg/m3	3.56E-04	5.83E-05	6.23E-05	6.35E-05	1.50E-04	1.86E-04	1.91E-04	7.92E-05	1.47E-04	1.05E-04	1.43E-04	2.86E-04	5.40E-04	9.01E-05	7.36E-05	0.025	0	1.34E-04	1.69E-04	5.83E-05	5.40E-04	3.56E-04	1.91E-04	5.40E-04	15	100
Chromium (Cr)	µg/m3	3.58E-03	2.54E-03	2.79E-03	2.99E-03	2.91E-03	2.55E-03	2.00E-03	2.12E-03	3.68E-03	9.85E-04	2.84E-03	2.26E-03	3.76E-03	2.52E-03	1.00E-03	0.5	0	2.41E-03	2.57E-03	9.85E-04	3.76E-03	3.58E-03	3.68E-03	3.76E-03	15	100
Cobalt (Co)	µg/m3	2.51E-04	1.09E-04	1.22E-04	1.02E-04	1.61E-04	7.89E-05	4.39E-05	5.45E-05	1.16E-04	5.80E-05	6.65E-05	8.33E-05	1.20E-04	5.95E-05	5.06E-05	0.1	0	8.77E-05	9.84E-05	4.39E-05	2.51E-04	2.51E-04	1.16E-04	1.20E-04	15	100
Copper (Cu)	µg/m3	1.24E-01	3.39E-02	1.19E-01	9.46E-02	2.17E-02	4.04E-02	2.97E-02	5.42E-02	2.08E-01	1.62E-02	1.63E-01	6.02E-02	1.30E-01	1.84E-02	4.51E-02	50	0	5.73E-02	7.72E-02	1.62E-02	2.08E-01	1.24E-01	2.08E-01	1.63E-01	15	100
Iron (Fe)	µg/m3	9.04E-01	3.44E-01	4.52E-01	3.32E-01	4.23E-01	2.44E-01	1.31E-01	1.73E-01	5.14E-01	1.30E-01	2.45E-01	2.01E-01	3.66E-01	1.88E-01	9.48E-02	4	0	2.66E-01	3.16E-01	9.48E-02	9.04E-01	9.04E-01	5.14E-01	3.66E-01	15	100
Lead (Pb)	µg/m3	5.62E-03	1.76E-03	1.41E-03	1.93E-03	3.25E-03	2.90E-03	3.51E-03	1.92E-03	2.96E-03	1.96E-03	3.60E-03	2.10E-03	3.42E-03	1.49E-03	1.61E-03	0.5	0	2.43E-03	2.63E-03	1.41E-03	5.62E-03	5.62E-03	3.51E-03	3.60E-03	15	100
Magnesium (Mg)	µg/m3	4.37E-01	1.85E-01	1.86E-01	1.81E-01	2.79E-01	1.87E-01	8.10E-02	9.87E-02	1.58E-01	1.30E-01	1.13E-01	1.45E-01	2.53E-01	1.53E-01	6.95E-02	-	-	1.59E-01	1.77E-01	6.95E-02	4.37E-01	4.37E-01	1.87E-01	2.53E-01	15	100
Manganese (Mn)	µg/m3	2.69E-02	9.49E-03	1.06E-02	9.76E-03	1.30E-02	1.01E-02	2.89E-03	4.36E-03	9.00E-03	5.67E-03	6.54E-03	5.33E-03	1.12E-02	9.25E-03	2.16E-03	0.4	0	7.63E-03	9.08E-03	2.16E-03	2.69E-02	2.69E-02	1.01E-02	1.12E-02	15	100
Mercury (Hg)	µg/m3	2.79E-05	1.05E-05	2.96E-06	7.79E-06	7.72E-06	1.90E-05	2.85E-06	2.87E-06	2.92E-06	2.90E-06	2.84E-06	2.89E-06	6.36E-06	3.00E-06	5.89E-06	2	0	5.25E-06	7.23E-06	2.84E-06	2.79E-05	2.79E-05	1.90E-05	6.36E-06	15	100
Molybdenum (Mo)	µg/m3	4.12E-03	1.40E-03	3.05E-03	3.84E-03	7.60E-04	1.58E-03	8.21E-04	1.58E-03	5.64E-03	5.51E-04	3.87E-03	2.16E-03	7.00E-03	1.12E-03	1.78E-03	120	0	2.02E-03	2.62E-03	5.51E-04	7.00E-03	4.12E-03	5.64E-03	7.00E-03	15	100
Nickel (Ni)	µg/m3	2.31E-03	9.37E-04	9.01E-04	1.11E-03	1.17E-03	1.02E-03	6.67E-04	8.38E-04	1.84E-03	2.12E-03	3.02E-03	9.25E-04	1.83E-03	9.25E-04	1.06E-03	0.2	0	1.25E-03	1.38E-03	6.67E-04	3.02E-03	2.31E-03	2.12E-03	3.02E-03	15	100
Phosphorus (P)	µg/m3	2.28E-01	2.33E-01	2.22E-01	2.25E-01	2.23E-01	2.22E-01	2.14E-01	2.15E-01	2.19E-01	2.17E-01	2.13E-01	2.17E-01	2.17E-01	2.25E-01	2.21E-01	-	-	2.21E-01	2.21E-01	2.13E-01	2.33E-01	2.33E-01	2.22E-01	2.25E-01	15	100
Selenium (Se)	µg/m3	2.06E-03	4.03E-04	3.85E-04	3.89E-04	3.86E-04	3.86E-04	3.71E-04	3.73E-04	9.35E-04	3.77E-04	3.70E-04	3.76E-04	3.76E-04	3.90E-04	3.83E-04	10	0	4.54E-04	5.31E-04	3.70E-04	2.06E-03	2.06E-03	9.35E-04	3.90E-04	15	100
Silver (Ag)	µg/m3	9.46E-05	2.79E-05	2.67E-05	2.69E-05	2.67E-05	2.57E-05	2.58E-05	1.15E-04	2.61E-05	1.05E-04	2.14E-04	1.05E-04	2.70E-05	2.65E-05	1.15E-04	1	0	4.40E-05	6.00E-05	2.57E-05	2.14E-04	9.46E-05	1.15E-04	2.14E-04	15	100
Strontium (Sr)	µg/m3	8.19E-03	3.66E-03	4.39E-03	2.87E-03	7.78E-03	2.73E-03	8.55E-04	2.52E-03	3.39E-03	2.32E-03	2.39E-03	2.26E-03	4.45E-03	2.64E-03	1.88E-03	120	0	3.03E-03	3.49E-03	8.55E-04	8.19E-03	8.19E-03	3.39E-03	4.45E-03	15	100
Thallium (Tl)	µg/m3	2.73E-05	2.79E-05	2.67E-05	2.69E-05	2.67E-05	2.57E-05	2.58E-05	2.63E-05	2.61E-05	2.56E-05	2.60E-05	2.60E-05	5.59E-05	2.65E-05	2.65E-05	-	-	2.78E-05	2.84E-05	2.56E-05	5.59E-05	2.79E-05	2.67E-05	5.59E-05	15	100
Tin (Sn)	µg/m3	1.64E-03	7.88E-04	8.24E-04	1.58E-03	7.48E-04	8.54E-04	4.45E-04	9.93E-04	1.64E-03	4.11E-04	1.48E-03	9.31E-04	9.08E-03	5.53E-04	8.60E-04	10	0	1.04E-03	1.52E-03	4.11E-04	9.08E-03	1.64E-03	1.64E-03	9.08E-03	15	100
Titanium (Ti)	µg/m3	1.15E-02	3.41E-03	8.89E-03	7.79E-03	1.31E-02	3.26E-03	3.14E-03	3.16E-03	8.76E-03	3.19E-03	3.13E-03	3.18E-03	3.18E-03	3.30E-03	3.24E-03	120	0	4.67E-03	5.48E-03	3.13E-03	1.31E-02	1.31E-02	8.76E-03	3.30E-03	15	100
Uranium (U)	µg/m3	2.57E-05	1.76E-05	9.07E-06	6.47E-06	1.69E-05	9.61E-06	1.71E-06	2.17E-05	7.60E-06	3.65E-06	5.12E-06	4.97E-06	1.02E-05	8.41E-06	1.30E-05	0.3	0	8.71E-06	1.08E-05	1.71E-06	2.57E-05	2.57E-05	2.17E-05	1.30E-05	15	100
Vanadium (V)	µg/m3	1.52E-03	1.55E-03	1.48E-03	1.50E-03	1.48E-03	1.48E-03	1.43E-03	1.43E-03	1.46E-03	1.45E-03	1.42E-03	1.45E-03	1.45E-03	1.50E-03	1.47E-03	2	0	1.47E-03	1.47E-03	1.42E-03	1.55E-03	1.55E-03	1.48E-03	1.50E-03	15	100
Zinc (Zn)	µg/m3	6.92E-02	2.74E-02	2.76E-02	3.54E-02	2.85E-02	4.94E-02	1.12E-01	2.53E-02	4.21E-02	1.23E-01	7.11E-02	8.50E-02	7.98E-02	2.99E-02	2.01E-02	120	0	4.67E-02	5.50E-02	2.01E-02	1.23E-01	6.92E-02	1.23E-01	8.50E-02	15	100
Zirconium (Zr)	µg/m3	6.07E-04	6.20E-04	5.93E-04	1.44E-03	5.94E-04	5.93E-04	5.70E-04	5.74E-04	1.46E-03	5.80E-04	5.69E-04	5.78E-04	5.78E-04	6.01E-04	5.89E-04	-	-	6.63E-04	7.03E-04	5.69E-04	1.46E-03	1.44E-03	1.46E-03	6.01E-04	15	100

NOTE: All non-detectable results were reported as 1/2 of the detection limit

**Table B9: 2025 Rundle Road Station Q4 Monitoring Results for TSP and Metals**

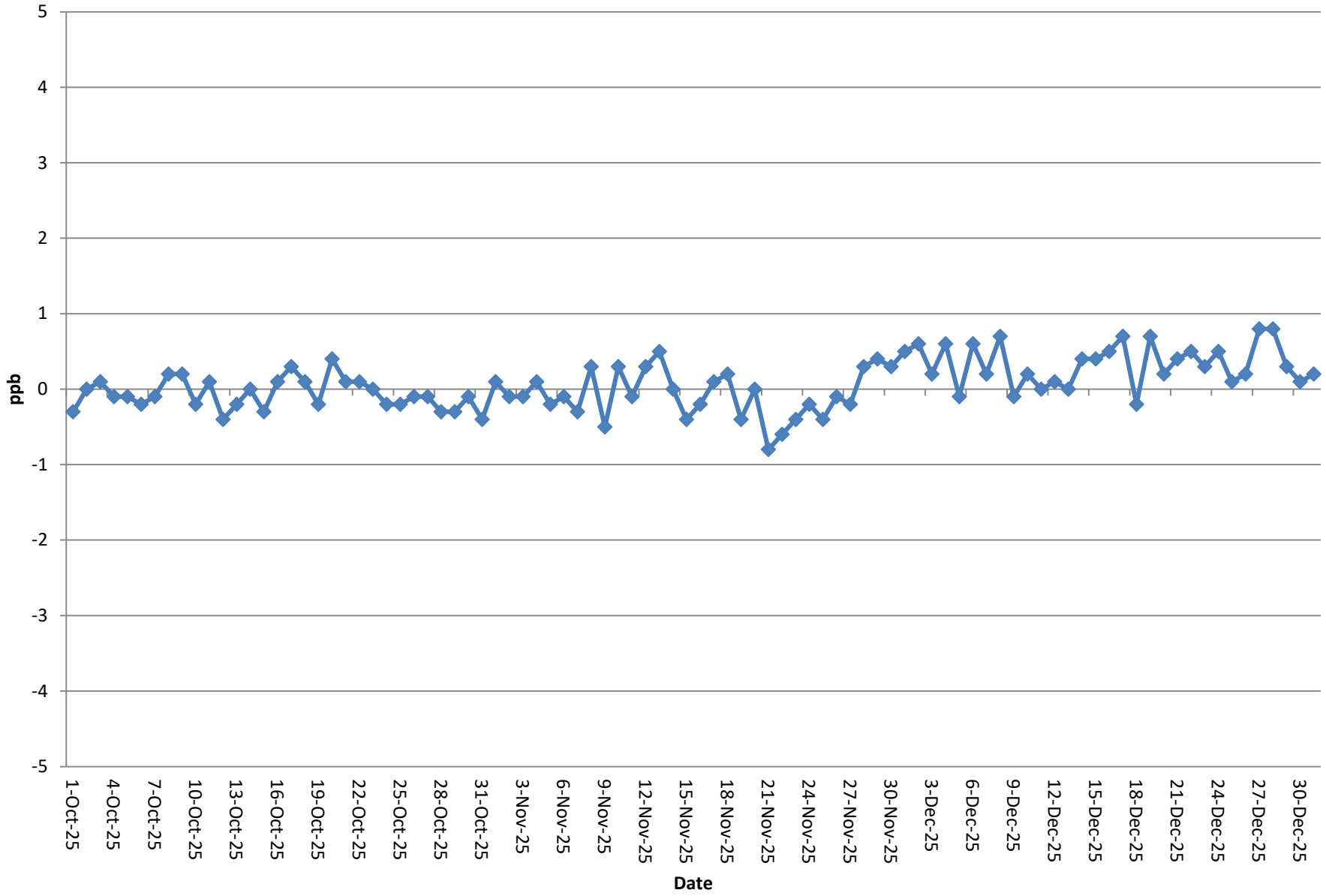
Contaminant	Units	4 Oct 25	10 Oct 25	16 Oct 25	22 Oct 25	28 Oct 25	3 Nov 25	9 Nov 25	15 Nov 25	21 Nov 25	27 Nov 25	3 Dec 25	9 Dec 25	15 Dec 25	21 Dec 25	27 Dec 25	MECP Criteria (µg/m3)	No. > Criteria	Geometric Mean	Arithmetic Mean	Q4 Minimum Concentration	Q4 Maximum Concentration	October Maximum Concentration	November Maximum Concentration	December Maximum Concentration	Number of Valid Samples	% Valid data
Total particulate	µg/m3	35.34	27.99	13.72	13.02	14.42	22.16	10.42	10.89	19.61	26.74	24.49	14.70	14.16	19.54	7.67	120	0	16.9	18.3	7.67	35.34	35.34	26.74	24.49	15	100
Aluminum (Al)	µg/m3	2.30E-01	2.85E-01	1.46E-01	1.26E-01	1.53E-01	1.25E-01	8.63E-02	9.41E-02	8.44E-02	2.17E-01	1.33E-01	1.04E-01	1.21E-01	1.24E-01	3.94E-02	-	-	1.25E-01	1.38E-01	3.94E-02	2.85E-01	2.85E-01	2.17E-01	1.33E-01	15	100
Antimony (Sb)	µg/m3	2.13E-03	9.13E-04	5.51E-04	1.08E-03	5.57E-04	1.15E-03	2.49E-04	6.27E-04	1.22E-03	6.03E-04	1.03E-03	6.54E-04	8.11E-04	2.88E-04	1.61E-03	25	0	7.74E-04	8.98E-04	2.49E-04	2.13E-03	2.13E-03	1.22E-03	1.61E-03	15	100
Arsenic (As)	µg/m3	2.78E-03	9.01E-04	8.80E-04	9.04E-04	8.98E-04	9.01E-04	8.68E-04	8.88E-04	8.91E-04	9.41E-04	9.00E-04	9.00E-04	8.88E-04	8.99E-04	9.06E-04	0.3	0	9.68E-04	1.02E-03	8.68E-04	2.78E-03	2.78E-03	9.41E-04	9.06E-04	15	100
Barium (Ba)	µg/m3	1.31E-02	1.35E-02	7.27E-03	1.33E-02	6.76E-03	1.05E-02	2.22E-03	4.50E-03	1.09E-02	8.72E-03	1.09E-02	7.44E-03	9.12E-03	4.06E-03	2.42E-03	10	0	7.27E-03	8.31E-03	2.22E-03	1.35E-02	1.35E-02	1.09E-02	1.09E-02	15	100
Beryllium (Be)	µg/m3	1.51E-05	1.50E-05	1.47E-05	1.51E-05	1.50E-05	1.50E-05	1.45E-05	1.48E-05	1.49E-05	1.57E-05	1.50E-05	1.50E-05	1.48E-05	1.50E-05	1.51E-05	0.01	0	1.50E-05	1.50E-05	1.45E-05	1.57E-05	1.51E-05	1.57E-05	1.51E-05	15	100
Bismuth (Bi)	µg/m3	5.45E-04	5.41E-04	5.28E-04	5.42E-04	5.39E-04	5.40E-04	5.21E-04	5.33E-04	5.35E-04	5.65E-04	5.40E-04	5.40E-04	5.33E-04	5.39E-04	5.43E-04	-	-	5.39E-04	5.39E-04	5.21E-04	5.65E-04	5.45E-04	5.65E-04	5.43E-04	15	100
Boron (B)	µg/m3	4.54E-03	4.51E-03	4.40E-03	4.52E-03	4.49E-03	4.50E-03	4.34E-03	4.44E-03	4.46E-03	4.71E-03	4.50E-03	4.50E-03	4.44E-03	4.50E-03	4.53E-03	120	0	4.49E-03	4.49E-03	4.34E-03	4.71E-03	4.54E-03	4.71E-03	4.53E-03	15	100
Cadmium (Cd)	µg/m3	2.96E-04	6.01E-05	4.05E-05	7.59E-05	5.81E-05	1.99E-04	1.07E-04	1.60E-04	1.11E-04	1.25E-04	2.96E-04	2.04E-04	1.90E-04	8.87E-05	7.00E-05	0.025	0	1.17E-04	1.39E-04	4.05E-05	2.96E-04	2.96E-04	1.99E-04	2.96E-04	15	100
Chromium (Cr)	µg/m3	3.45E-03	2.88E-03	2.29E-03	3.13E-03	2.75E-03	3.18E-03	9.84E-04	2.54E-03	2.44E-03	3.26E-03	3.84E-03	2.82E-03	2.61E-03	2.34E-03	1.03E-03	0.5	0	2.48E-03	2.64E-03	9.84E-04	3.84E-03	3.45E-03	3.26E-03	3.84E-03	15	100
Cobalt (Co)	µg/m3	2.26E-04	3.00E-04	8.80E-05	1.19E-04	1.01E-04	1.35E-04	4.75E-05	7.10E-05	8.79E-05	1.51E-04	1.25E-04	1.00E-04	1.08E-04	8.51E-05	3.26E-05	0.1	0	1.03E-04	1.18E-04	3.26E-05	3.00E-04	3.00E-04	1.51E-04	1.25E-04	15	100
Copper (Cu)	µg/m3	3.72E-01	2.73E-01	1.55E-01	1.14E-01	1.75E-01	1.63E-01	8.34E-02	1.31E-01	3.44E-01	7.53E-02	1.78E-01	7.80E-02	1.12E-01	2.70E-02	2.28E-02	50	0	1.19E-01	1.54E-01	2.28E-02	3.72E-01	3.72E-01	3.44E-01	1.78E-01	15	100
Iron (Fe)	µg/m3	6.84E-01	7.15E-01	2.18E-01	3.76E-01	3.20E-01	4.14E-01	1.23E-01	2.30E-01	2.66E-01	4.59E-01	4.31E-01	2.45E-01	3.21E-01	2.58E-01	7.25E-02	4	0	2.96E-01	3.42E-01	7.25E-02	7.15E-01	7.15E-01	4.59E-01	4.31E-01	15	100
Lead (Pb)	µg/m3	5.61E-03	2.78E-03	1.11E-03	1.95E-03	2.48E-03	3.77E-03	4.41E-03	1.26E-02	2.43E-03	4.34E-03	5.58E-03	2.84E-03	3.64E-03	1.65E-03	2.02E-03	0.5	0	3.19E-03	3.81E-03	1.11E-03	1.26E-02	5.61E-03	1.26E-02	5.58E-03	15	100
Magnesium (Mg)	µg/m3	4.48E-01	7.45E-01	1.65E-01	2.19E-01	1.77E-01	3.62E-01	1.02E-01	1.15E-01	1.74E-01	6.78E-01	3.57E-01	1.94E-01	2.61E-01	2.88E-01	6.10E-02	-	-	2.34E-01	2.90E-01	6.10E-02	7.45E-01	7.45E-01	6.78E-01	3.57E-01	15	100
Manganese (Mn)	µg/m3	2.10E-02	1.86E-02	7.16E-03	1.18E-02	7.30E-03	1.51E-02	3.28E-03	7.10E-03	7.61E-03	1.71E-02	1.83E-02	6.60E-03	8.29E-03	1.10E-02	1.56E-03	0.4	0	8.95E-03	1.08E-02	1.56E-03	2.10E-02	2.10E-02	1.71E-02	1.83E-02	15	100
Mercury (Hg)	µg/m3	2.54E-05	1.08E-05	2.93E-06	6.03E-06	5.98E-06	7.81E-06	2.89E-06	2.96E-06	2.97E-06	3.14E-06	6.60E-06	3.00E-06	2.96E-06	6.59E-06	3.02E-06	2	0	4.88E-06	6.21E-06	2.89E-06	2.54E-05	2.54E-05	7.81E-06	6.60E-06	15	100
Molybdenum (Mo)	µg/m3	1.11E-02	7.09E-03	4.31E-03	4.02E-03	4.52E-03	4.09E-03	3.72E-03	8.62E-03	3.01E-03	7.44E-03	4.18E-03	4.74E-03	1.53E-03	1.15E-03	120	0	4.04E-03	4.77E-03	1.15E-03	1.11E-02	1.11E-02	8.62E-03	7.44E-03	15	100	
Nickel (Ni)	µg/m3	1.77E-03	1.34E-03	7.62E-04	1.42E-03	9.64E-04	1.10E-03	5.90E-04	9.41E-04	1.31E-03	1.92E-03	2.59E-03	1.72E-03	1.34E-03	8.69E-04	5.86E-04	0.2	0	1.18E-03	1.28E-03	5.86E-04	2.59E-03	1.77E-03	1.92E-03	2.59E-03	15	100
Phosphorus (P)	µg/m3	2.27E-01	2.25E-01	2.20E-01	2.26E-01	2.24E-01	2.25E-01	2.17E-01	2.22E-01	2.23E-01	2.35E-01	2.25E-01	2.25E-01	2.22E-01	2.25E-01	2.26E-01	-	-	2.25E-01	2.25E-01	2.17E-01	2.35E-01	2.27E-01	2.35E-01	2.26E-01	15	100
Selenium (Se)	µg/m3	2.06E-03	3.90E-04	3.81E-04	3.92E-04	3.89E-04	8.41E-04	3.76E-04	3.85E-04	8.91E-04	4.08E-04	3.90E-04	3.90E-04	3.85E-04	3.90E-04	3.92E-04	10	0	4.84E-04	5.64E-04	3.76E-04	2.06E-03	2.06E-03	8.91E-04	3.92E-04	15	100
Silver (Ag)	µg/m3	1.89E-04	1.24E-04	6.33E-05	6.15E-05	7.66E-05	7.75E-05	2.61E-05	6.16E-05	1.74E-04	2.82E-05	1.18E-04	2.23E-04	8.59E-05	2.70E-05	2.72E-05	1	0	7.19E-05	9.08E-05	2.61E-05	2.23E-04	1.89E-04	1.74E-04	2.23E-04	15	100
Strontium (Sr)	µg/m3	5.57E-03	1.20E-02	4.11E-03	3.13E-03	4.61E-03	4.44E-03	1.79E-03	2.78E-03	3.33E-03	7.41E-03	6.48E-03	3.42E-03	5.15E-03	6.77E-03	9.06E-04	120	0	4.09E-03	4.79E-03	9.06E-04	1.20E-02	1.20E-02	7.41E-03	6.77E-03	15	100
Thallium (Tl)	µg/m3	2.72E-05	2.70E-05	2.64E-05	2.71E-05	2.69E-05	2.70E-05	2.61E-05	2.66E-05	2.67E-05	2.82E-05	2.70E-05	2.70E-05	2.67E-05	2.70E-05	2.72E-05	-	-	2.69E-05	2.69E-05	2.61E-05	2.82E-05	2.72E-05	2.82E-05	2.72E-05	15	100
Tin (Sn)	µg/m3	1.87E-03	9.73E-04	4.69E-04	1.48E-03	6.76E-04	1.30E-03	4.98E-04	1.39E-03	1.27E-03	1.02E-03	1.77E-03	1.19E-03	2.33E-03	1.80E-04	4.65E-04	10	0	9.42E-04	1.13E-03	1.80E-04	2.33E-03	1.87E-03	1.39E-03	2.33E-03	15	100
Titanium (Ti)	µg/m3	1.03E-02	1.74E-02	7.62E-03	7.83E-03	7.18E-03	7.21E-03	3.18E-03	3.26E-03	3.27E-03	1.13E-02	7.80E-03	3.30E-03	3.26E-03	3.30E-03	3.32E-03	120	0	5.66E-03	6.64E-03	3.18E-03	1.74E-02	1.74E-02	1.13E-02	7.80E-03	15	100
Uranium (U)	µg/m3	2.56E-05	4.05E-05	7.39E-06	7.35E-06	1.18E-05	1.30E-05	4.98E-06	1.62E-05	9.63E-06	1.47E-05	1.08E-05	7.02E-06	9.83E-06	1.32E-05	1.14E-05	0.3	0	1.17E-05	1.36E-05	4.98E-06	4.05E-05	4.05E-05	1.62E-05	1.32E-05	15	100
Vanadium (V)	µg/m3	1.51E-03	1.50E-03	1.47E-03	1.51E-03	1.50E-03	1.50E-03	1.45E-03	1.48E-03	1.49E-03	1.57E-03	1.50E-03	1.50E-03	1.48E-03	1.50E-03	1.51E-03	2	0	1.50E-03	1.50E-03	1.45E-03	1.57E-03	1.51E-03	1.57E-03	1.51E-03	15	100
Zinc (Zn)	µg/m3	8.35E-02	5.14E-02	2.52E-02	3.70E-02	2.83E-02	6.55E-02	2.19E-01	2.97E-02	3.53E-02	1.90E-01	1.76E-01	1.16E-01	7.70E-02	3.65E-02	5.63E-02	120	0	6.33E-02	8.18E-02	2.52E-02	2.19E-01	8.35E-02	2.19E-01	1.76E-01	15	100
Zirconium (Zr)	µg/m3	6.05E-04	1.26E-03	5.86E-04	1.27E-03	5.98E-04	6.01E-04	5.79E-04	5.92E-04	5.94E-04	6.28E-04	6.00E-04	6.00E-04	5.92E-04	5.99E-04	6.04E-04	-	-	6.61E-04	6.87E-04	5.79E-04	1.27E-03	1.27E-03	6.28E-04	6.04E-04	15	100

**NOTE:** All non-detectable results were reported as 1/2 of the detection limit

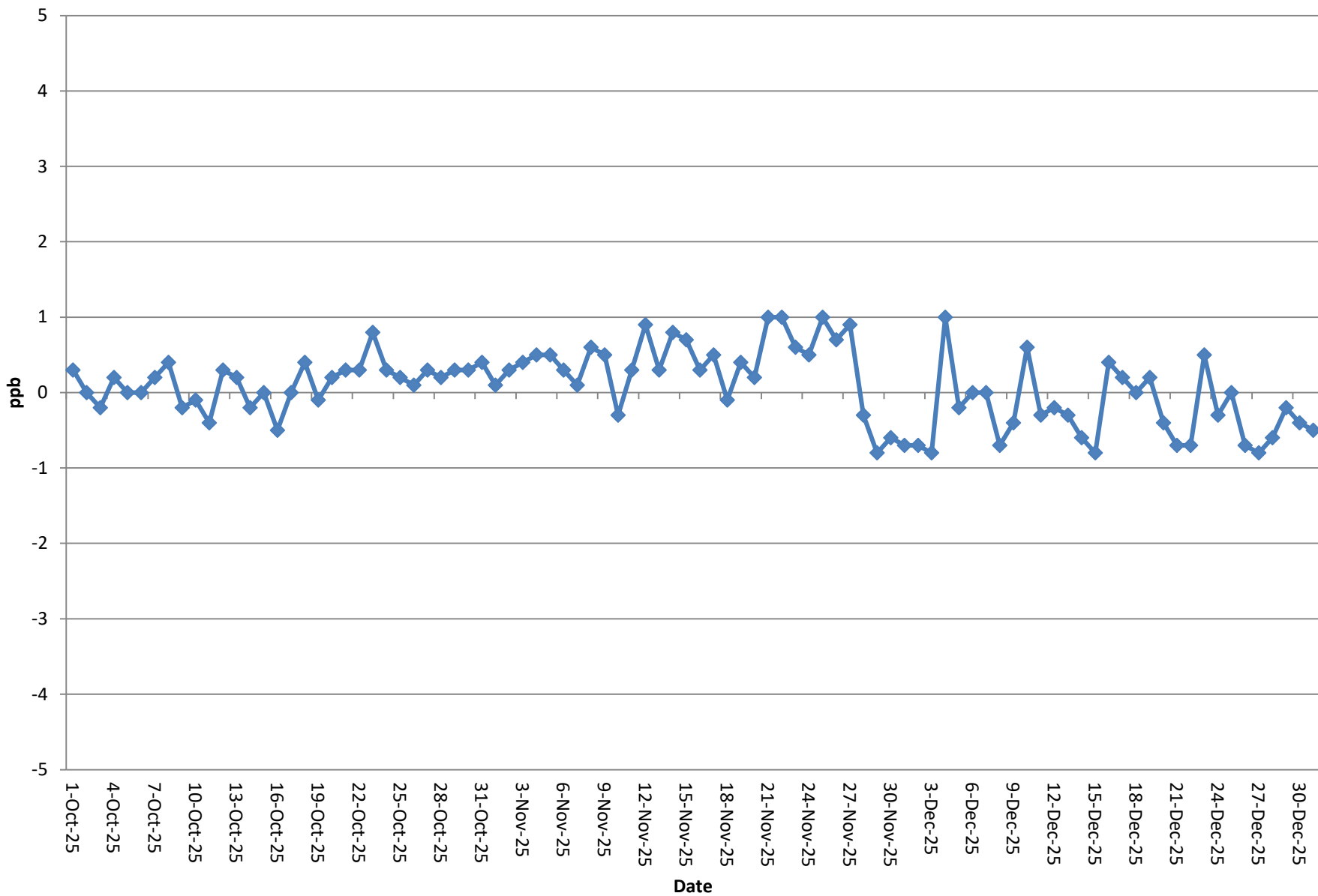
A large decorative graphic on the left side of the page, featuring a blue triangle at the top left corner and a large, light beige circular shape that overlaps the triangle and extends across the page.

# APPENDIX C

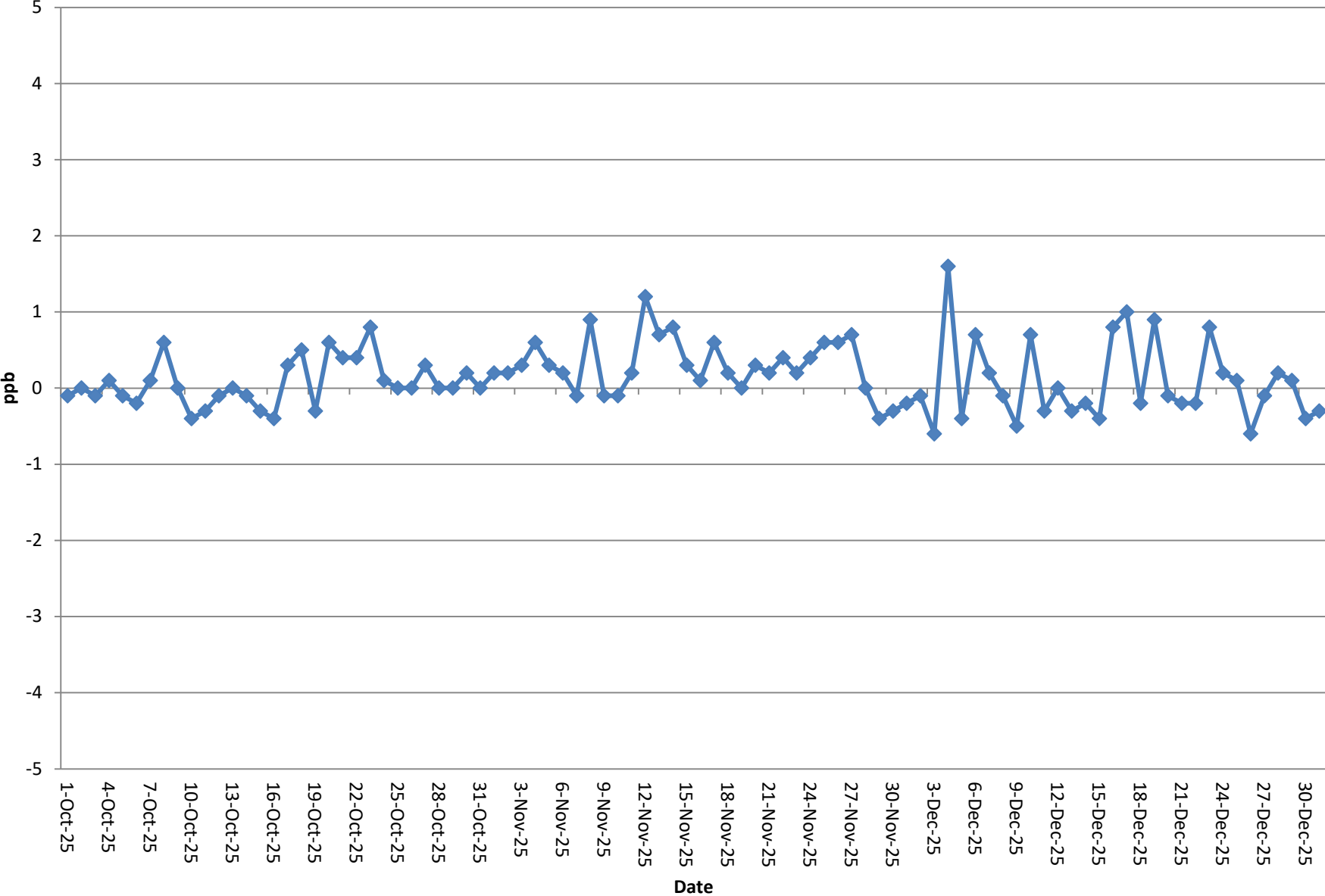
# NO Zeros (Courtice Monitoring Station)



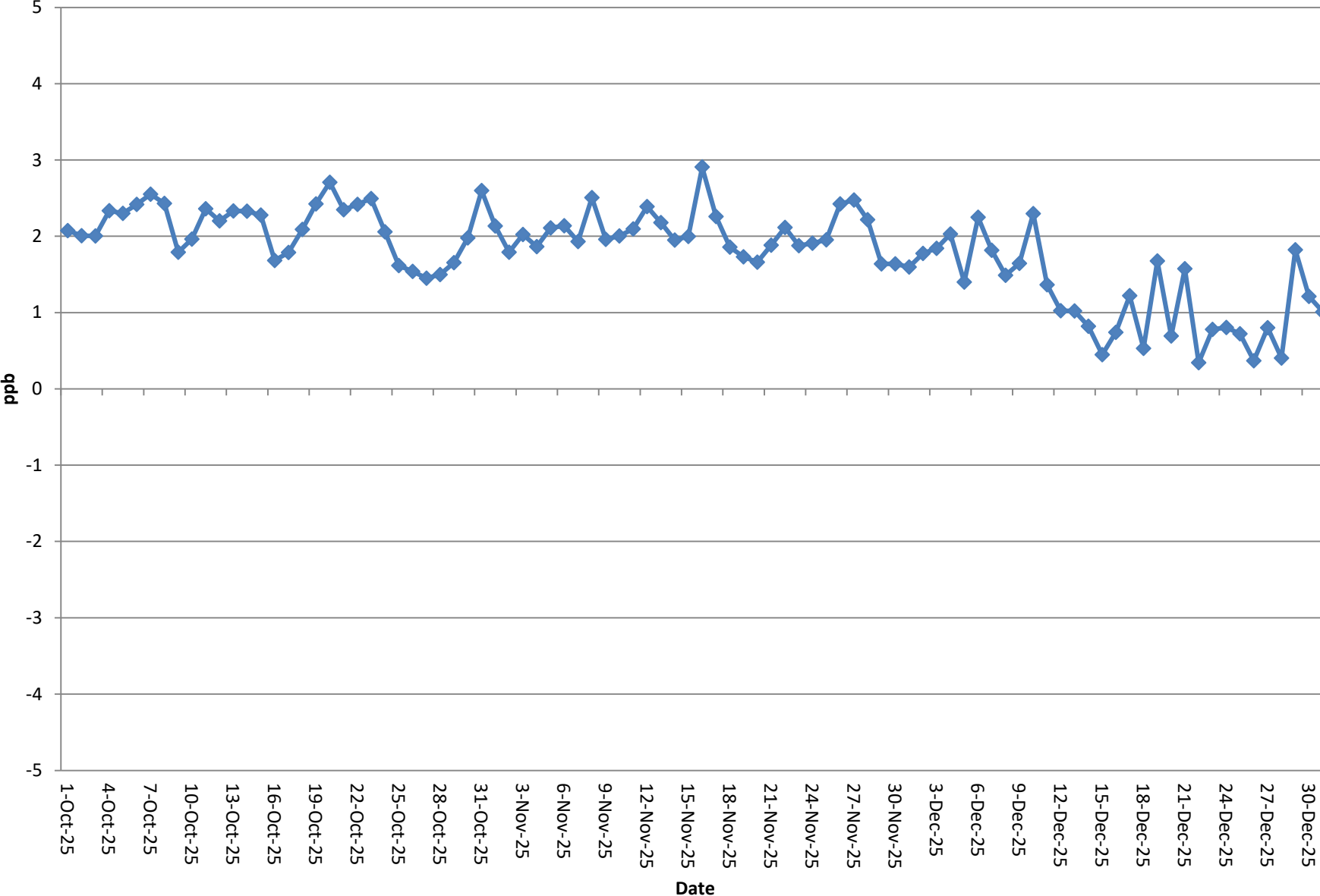
# NO<sub>2</sub> Zeros (Courtice Monitoring Station)



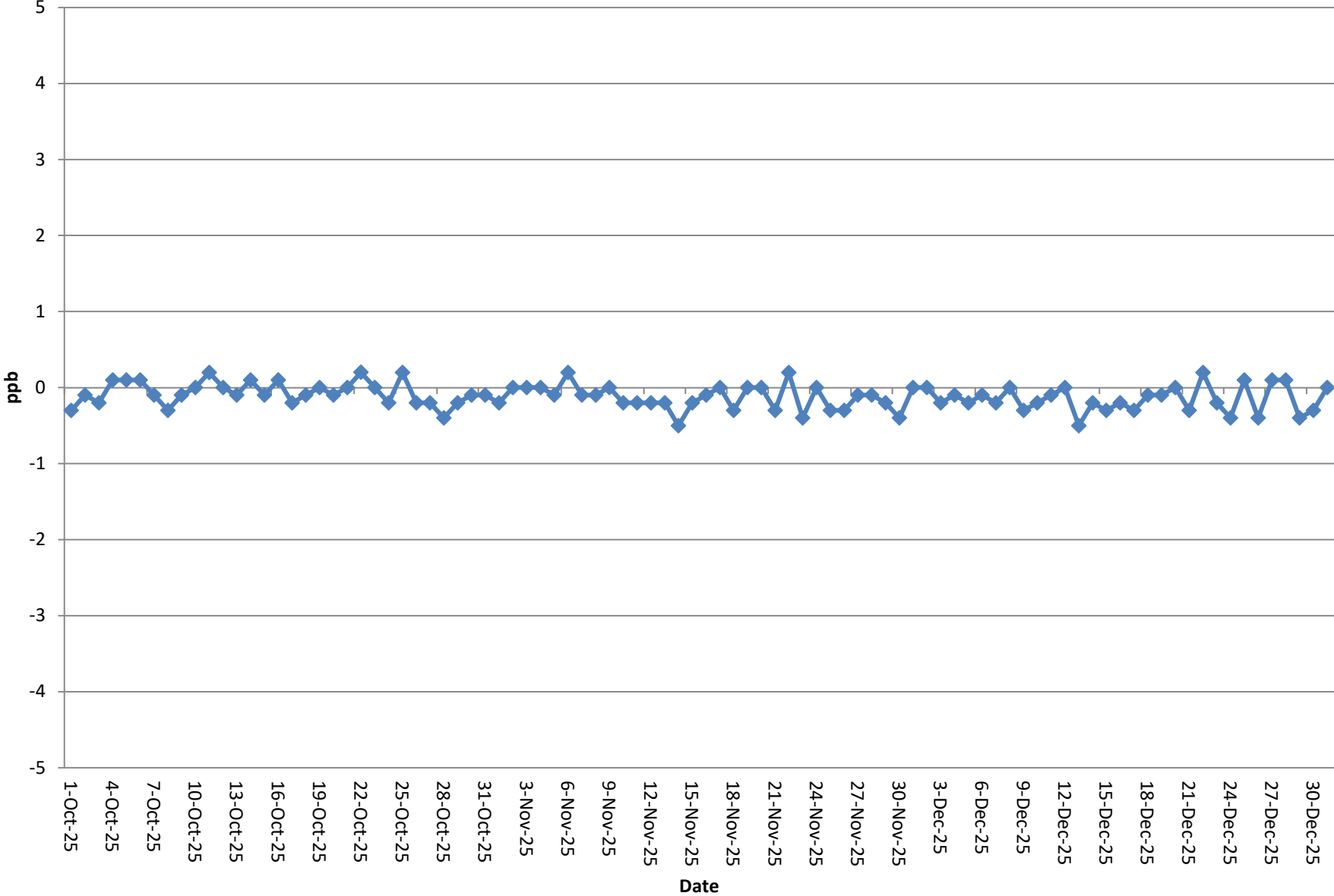
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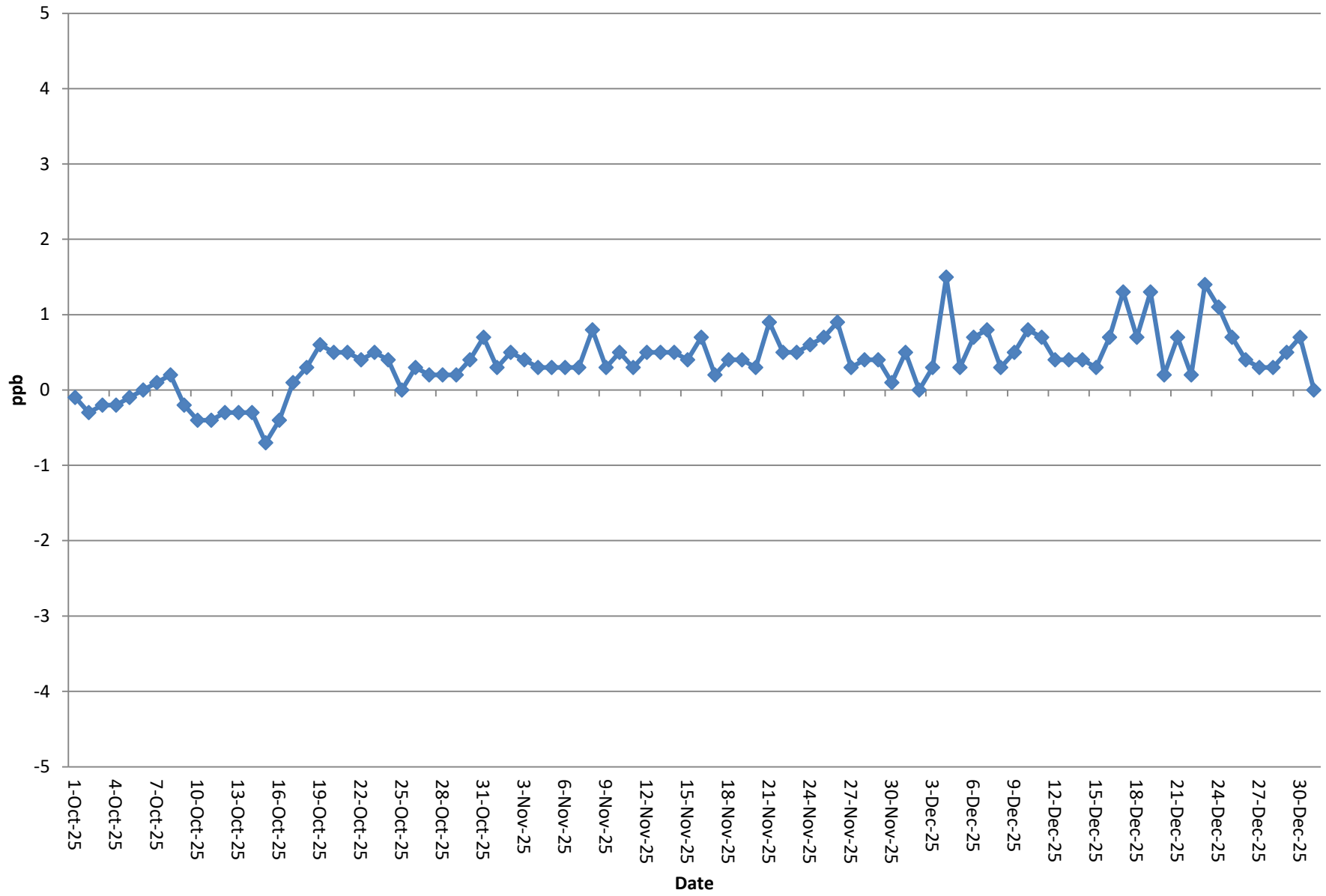
# SO<sub>2</sub> Zeros (Courtice Monitoring Station)



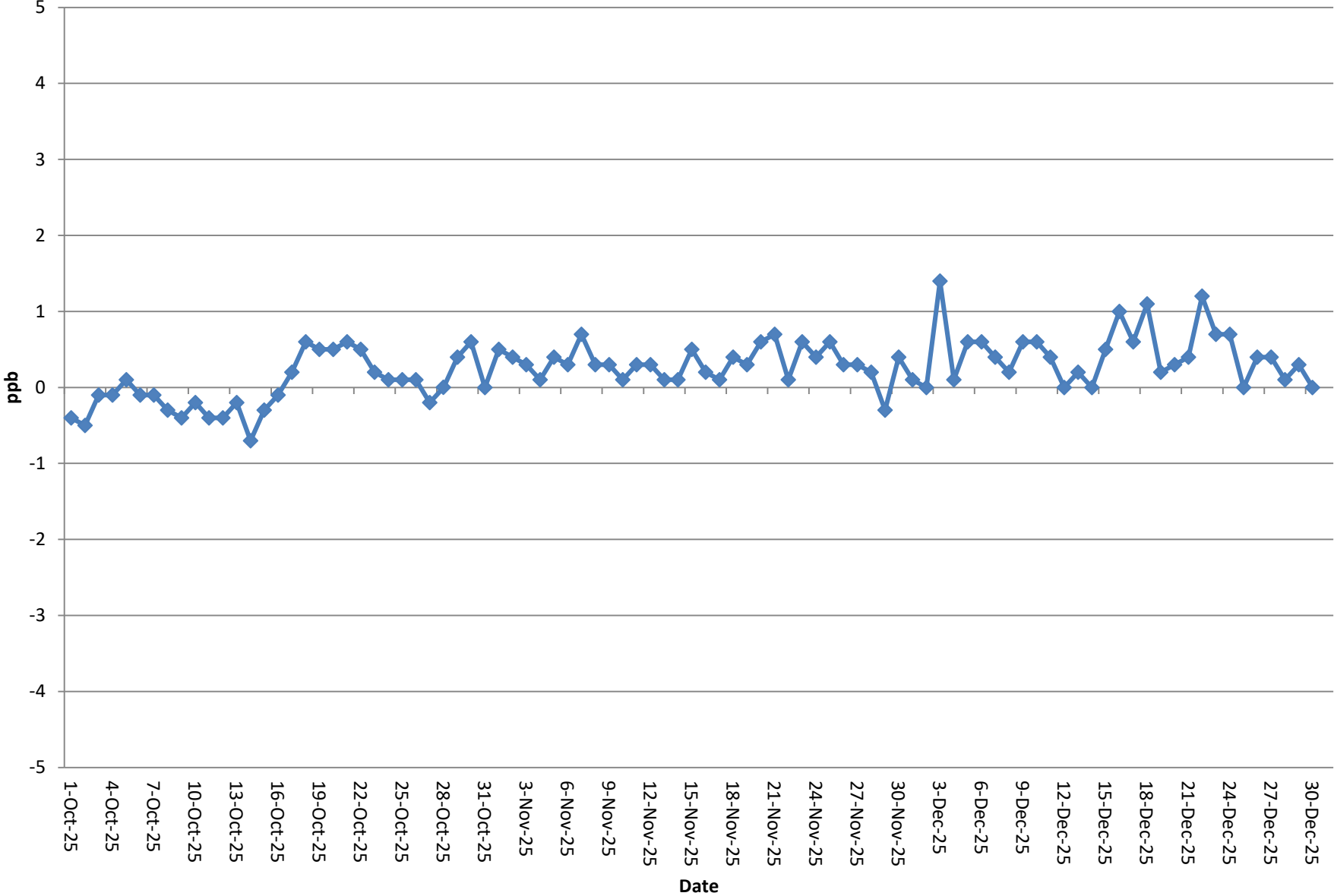
# NO Zeros (Rundle Monitoring Station)



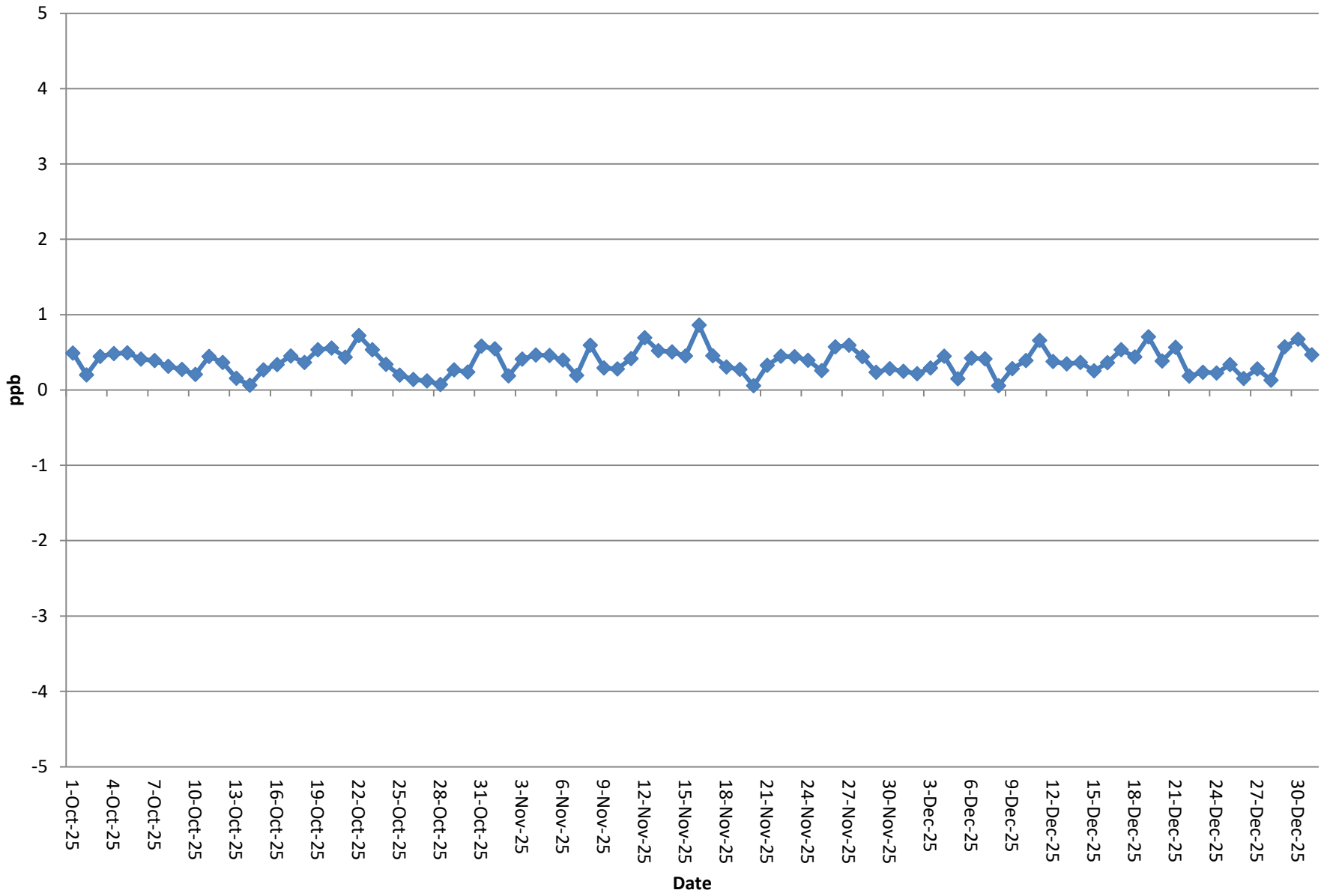
# NO<sub>2</sub> Zeros (Rundle Monitoring Station)



# NO<sub>x</sub> Zeros (Rundle Monitoring Station)



# SO<sub>2</sub> Zeros (Rundle Monitoring Station)



A large decorative graphic on the left side of the page, featuring a blue triangle at the top left corner and a large, light beige circular shape that overlaps the triangle and extends across the page.

# APPENDIX D

**Table D1: Q4 Edit Log for PM<sub>2.5</sub> at Courtice Station**

Emitter s Name: Durham York Energy Centre									
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca			
Station Number: 45201				Station Name: Courtice Station					
Station Address: 100 Osbourne Road				Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: PM <sub>2.5</sub>			Instrument Make & Model: Thermo Scientific Model 5030 SHARP Monitor				s/n: E-1563		
Data Edit Period		Start Date: October 1, 2025		End Date: December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)		
1	16/10/2025	SRS	Hours Deleted	16/10/2025	10:00	16/10/2025	11:00	1	Monthly calibration
2	10/11/2025	AXT	Zero Correction	01/10/2025	00:00	01/11/2025	00:00	-	Correcting Values <0 to 0
3	27/11/2025	SRS	Hours Deleted	27/11/2025	14:00	27/11/2025	16:00	2	Monthly calibration
4	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0
5	10/12/2025	SRS	Hours Deleted	10/12/2025	15:00	10/12/2025	16:00	1	Monthly calibration
6	16/12/2025	SRS	Hours Deleted	16/12/2025	11:00	16/12/2025	12:00	1	Quarterly audit
7	05/01/2026	AXT	Hours Deleted	20/12/2025	02:00	20/12/2025	10:00	8	Power outage - no data
8	05/01/2026	AXT	Hours Deleted	29/12/2025	10:00	29/12/2025	11:00	1	Power outage - no data
9	05/01/2026	AXT	Zero Correction	01/12/2025	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0

**Table D2: Q4 Edit Log for PM<sub>2.5</sub> at Rundle Road Station**

Emitter s Name: Durham York Energy Centre										
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca				
Station Number: 45200				Station Name: Rundle Road Station						
Station Address: Rundle Road				Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON						
Pollutants or Parameter: PM <sub>2.5</sub>			Instrument Make & Model: Thermo Scientific Model 5030 SHARP Monitor				s/n: E-1569			
Data Edit Period		Start Date: October 1, 2025			End Date: December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason	
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)			
1	16/10/2025	SRS	Hours Deleted	16/10/2025	13:00	16/10/2025	15:00	2	Monthly calibration	
2	10/11/2025	AXT	Zero Correction	01/10/2025	00:00	01/11/2025	00:00	-	Correcting Values <0 to 0	
3	26/11/2025	SRS	Hours Deleted	26/11/2025	15:00	26/11/2025	17:00	2	Monthly calibration	
4	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0	
5	05/01/2026	SRS	Hours Deleted	10/12/2025	10:00	10/12/2025	11:00	1	Monthly calibration	
6	16/12/2025	SRS	Zero Correction	16/12/2025	12:00	16/12/2025	13:00	1	Quarterly audit	
7	05/01/2026	AXT	Zero Correction	01/12/2005	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0	

**Table D3: Q4 Edit Log for NO<sub>x</sub> at Courtice Station**

Emitter's Name: Durham York Energy Centre										
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca				
Station Number: 45201				Station Name: Courtice Station						
Station Address: 100 Osbourne Road				Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON						
Pollutants or Parameter: NO <sub>x</sub>			Instrument Make & Model: Teledyne Nitrogen Oxide Analyzer Model T200				s/n: 675			
Data Edit Period		Start Date: October 1, 2025			End Date: December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor's Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason	
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)			
1	16/10/2025	SRS	Hours Deleted	16/10/2025	09:00	16/10/2025	11:00	2	Monthly calibration	
2	10/11/2025	AXT	Zero Correction	01/10/2025	00:00	01/11/2025	00:00	-	Correcting Values <0 to 0	
3	27/11/2025	SRS	Hours Deleted	27/11/2025	12:00	27/11/2025	16:00	4	Monthly calibration	
4	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0	
5	10/12/2025	SRS	Hours Deleted	10/12/2025	14:00	10/12/2025	16:00	2	Monthly calibration	
6	05/01/2026	AXT	Hours Deleted	20/12/2025	02:00	20/12/2025	11:00	9	Power outage - no data	
7	05/01/2026	AXT	Hours Deleted	29/12/2025	10:00	29/12/2025	12:00	2	Power outage - no data	
8	05/01/2026	AXT	Zero Correction	01/12/2025	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0	

**Table D4: Q4 Edit Log for NO<sub>x</sub> at Rundle Road Station**

Emitter s Name: Durham York Energy Centre										
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca				
Station Number: 45200				Station Name: Rundle Road Station						
Station Address: Rundle Road				Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON						
Pollutants or Parameter: NOx			Instrument Make & Model: Teledyne Nitrogen Oxide Analyzer Model T200				s/n: 676			
Data Edit Period		Start Date: October 1, 2025			End Date: December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason	
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)			
1	16/10/2025	SRS	Hours Deleted	16/10/2025	13:00	16/10/2025	15:00	2	Monthly calibration	
2	10/11/2025	AXT	Zero Correction	01/10/2025	00:00	01/11/2025	00:00	-	Correcting Values <0 to 0	
3	26/11/2025	SRS	Hours Deleted	26/11/2025	13:00	26/11/2025	17:00	4	Monthly calibration	
4	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0	
5	09/12/2025	SRS	Hours Deleted	09/12/2025	14:00	09/12/2025	17:00	3	Monthly calibration	
6	16/12/2025	SRS	Zero Correction	16/12/2025	12:00	16/12/2025	13:00	1	Quarterly audit	
7	05/01/2026	AXT	Zero Correction	01/12/2005	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0	

**Table D5: Q4 Edit Log for SO<sub>2</sub> at Courtice Station**

Emitter s Name: Durham York Energy Centre									
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca			
Station Number: 45201				Station Name: Courtice Station					
Station Address: 100 Osbourne Road				Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON					
Pollutants or Parameter: SO <sub>2</sub>			Instrument Make & Model: Teledyne Sulfur Dioxide Analyzer Model T100				s/n: 565		
Data Edit Period		Start Date: October 1, 2025		End Date: December 31, 2025		All testing done in EST			
Edit #	Edit Date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)		
1	16/10/2025	SRS	Hours Deleted	15/10/2025	13:00	15/10/2025	16:00	3	Monthly calibration
2	27/11/2025	SRS	Hours Deleted	27/11/2025	10:00	27/11/2025	14:00	4	Monthly calibration
3	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0
4	10/12/2025	SRS	Hours Deleted	10/12/2025	12:00	10/12/2025	14:00	2	Monthly calibration
5	16/12/2025	SRS	Hours Deleted	16/12/2025	11:00	16/12/2025	12:00	1	Quarterly audit
6	05/01/2026	AXT	Hours Deleted	20/12/2025	02:00	20/12/2025	10:00	8	Power outage - no data
7	05/01/2026	AXT	Hours Deleted	29/12/2025	10:00	29/12/2025	12:00	2	Power outage - no data
8	05/01/2026	AXT	Hours Deleted	29/12/2025	13:00	29/12/2025	14:00	1	Power outage - no data
9	05/01/2026	AXT	Zero Offset Adjustment	27/11/2025	13:00	10/12/2025	12:00	-	Zero Drift Adjustment Based on 'As Found' Calibration
10	05/01/2026	AXT	Zero Correction	01/12/2005	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0

**Table D6: Q4 Edit Log for SO<sub>2</sub> at Rundle Road Station**

Emitter s Name: Durham York Energy Centre									
Contact		Name: Lipika Saha		Phone: (905) 404-0888 ext 4107		Email: Lipika.Saha@Durham.ca			
Station Number: 45200			Station Name: Rundle Road Station						
Station Address: Rundle Road			Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON						
Pollutants or Parameter: SO <sub>2</sub>			Instrument Make & Model: Teledyne Sulfur Dioxide Analyzer Model T100				s/n: 566		
Data Edit Period		Start Date: October 1, 2025		End Date: December 31, 2025		All testing done in EST			
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)		
1	16/10/2025	SRS	Hours Deleted	16/10/2025	11:00	16/10/2025	13:00	2	Monthly calibration
2	10/11/2025	AXT	Zero Correction	01/10/2025	00:00	01/11/2025	00:00	-	Correcting Values <0 to 0
3	26/11/2025	SRS	Hours Deleted	26/11/2025	11:00	26/11/2025	13:00	2	Monthly calibration
4	03/12/2025	AXT	Zero Correction	01/11/2025	00:00	01/12/2005	00:00	-	Correcting Values <0 to 0
5	05/01/2026	AXT	Hours Deleted	10/12/2025	10:00	10/12/2025	12:00	2	Monthly calibration
6	16/12/2025	SRS	Zero Correction	16/12/2025	12:00	16/12/2025	13:00	1	Quarterly audit
7	05/01/2026	AXT	Zero Correction	01/12/2005	00:00	01/01/2025	00:00	-	Correcting Values <0 to 0

**Table D7: Q4 Edit Log for Meteorological Parameters at Courtice Road Station**

Emitter s Name: Durham York Energy Centre										
Contact	Name: Lipika Saha		Phone: (905) 404-0888 ext 4107			Email: Lipika.Saha@Durham.ca				
Station Number: 45201			Station Name: Courtice Station							
Station Address: 100 Osbourne Road			Emitter Address: The Region of Durham, 605 Rossland Road, Whitby, ON							
Pollutants or Parameter: WS, WD, Ambient T, P, RH			Instrument Make & Model: Miscellaneous Meterological Instrumentation				s/n: N/A			
Data Edit Period		Start Date: October 1, 2025			End Date: December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason	
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)			
1	05/01/2026	AXT	Hourse deleted	20/12/2025	04:00	20/12/2025	10:00	6	Power outage - no data	
2	24/12/2025	AXT	Hourse deleted	24/12/2025	13:00	24/12/2025	14:00	1	Rain calibration	

**Table D8: Q4 Edit Log for Meteorological Parameters at Rundle Road Station**

<b>Emitter s Name:</b> Durham York Energy Centre										
<b>Contact</b>	<b>Name:</b> Lipika Saha		<b>Phone:</b> (905) 404-0888 ext 4107			<b>Email:</b> Lipika.Saha@Durham.ca				
<b>Station Number:</b> 45200			<b>Station Name:</b> Rundle Station							
<b>Station Address:</b> Rundle Road			<b>Emitter Address:</b> The Region of Durham, 605 Rossland Road, Whitby, ON							
<b>Pollutants or Parameter:</b> WS, WD, Ambient T, P, RH			<b>Instrument Make &amp; Model:</b> Miscellaneous Meterological Instrumentation				<b>s/n:</b> N/A			
<b>Data Edit Period</b>		<b>Start Date:</b> October 1, 2025			<b>End Date:</b> December 31, 2025			All testing done in EST		
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration Deleted Hours	Reason	
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)			
1	24/12/2025	AXT	Hourse deleted	24/12/2025	13:00	24/12/2025	14:00	1	Rain calibration	



**Table D10: Q4 Edit Log for Discrete Sampling at Rundle Station**

<b>Emitter s Name:</b> Durham York Energy Center									
<b>Contact</b>	<b>Name:</b> Lipika Saha			<b>Phone:</b> (905) 404-0888 ext 4107			<b>Email:</b> Lipika.Saha@Durham.ca		
<b>Station Number:</b> 45200					<b>Station Name:</b> Rundle Station				
<b>Station Address:</b> Rundle Rd					<b>Emitter Address:</b> The Region of Durham, 605 Rossland Road, Whitby, ON				
<b>Pollutants or Parameter:</b> N/A				<b>Instrument Make &amp; Model:</b> N/A				<b>s/n:</b>	
<b>Data Edit Period</b>		<b>Start Date:</b> October 1, 2025			<b>End Date:</b> December 31, 2025			All testing done in EST	
Edit #	Edit date (dd/mm/yyyy)	Editor s Name	Edit Action	Starting		Ending		Duration	Reason
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)	Deleted Hours	

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# APPENDIX E

## SO2 Exceedance Report

Table E1

Durham York Energy Centre  
 Courtice, Ontario  
 Courtice Station  
 Baseline Corrected Data

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
06/10/2025	6:40	7	8
06/10/2025	6:45	22	14
06/10/2025	6:50	93	57
06/10/2025	6:55	43	68
06/10/2025	7:00	28	36
06/10/2025	7:05	21	24
06/10/2025	7:10	32	26
Hidden cells with no values exceeding limit.			
16/10/2025	9:10	8	7
16/10/2025	9:15	20	14
16/10/2025	9:20	92	56
16/10/2025	9:25	178	135
16/10/2025	9:30	192	185
16/10/2025	9:35	244	<u>218</u>
16/10/2025	9:40	158	201
16/10/2025	9:45	117	137
16/10/2025	9:50	186	151
16/10/2025	9:55	56	121
16/10/2025	10:00	45	51
16/10/2025	10:05	44	45
16/10/2025	10:10	23	33
Hidden cells with no values exceeding limit.			
16/10/2025	18:10	6	4
16/10/2025	18:15	65	35
16/10/2025	18:20	8	37
16/10/2025	18:25	126	67
16/10/2025	18:30	169	148
16/10/2025	18:35	20	95
16/10/2025	18:40	12	<u>16</u>
16/10/2025	18:45	8	10
16/10/2025	18:50	6	7
Hidden cells with no values exceeding limit.			
17/10/2025	3:20	30	39
17/10/2025	3:25	40	35
17/10/2025	3:30	46	43
17/10/2025	3:35	97	72

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
17/10/2025	3:40	104	101
17/10/2025	3:45	99	102
17/10/2025	3:50	105	102
17/10/2025	3:55	90	97
17/10/2025	4:00	100	95
17/10/2025	4:05	69	85
17/10/2025	4:10	60	64
17/10/2025	4:15	39	49
17/10/2025	4:20	29	34
17/10/2025	4:25	20	24
17/10/2025	4:30	15	17
17/10/2025	4:35	35	25
17/10/2025	4:40	100	67
17/10/2025	4:45	64	82
17/10/2025	4:50	41	52
17/10/2025	4:55	53	47
Hidden cells with no values exceeding limit.			
17/10/2025	5:15	15	17
17/10/2025	5:20	31	23
17/10/2025	5:25	69	50
17/10/2025	5:30	72	70
17/10/2025	5:35	61	66
17/10/2025	5:40	58	60
17/10/2025	5:45	70	64
17/10/2025	5:50	66	68
17/10/2025	5:55	54	60
17/10/2025	6:00	31	42
17/10/2025	6:05	30	30
Hidden cells with no values exceeding limit.			
17/10/2025	6:50	46	42
17/10/2025	6:55	50	48
17/10/2025	7:00	72	61
17/10/2025	7:05	86	79
17/10/2025	7:10	40	63
17/10/2025	7:15	31	36
17/10/2025	7:20	51	41
17/10/2025	7:25	49	50
17/10/2025	7:30	66	58
17/10/2025	7:35	82	74
17/10/2025	7:40	58	70
17/10/2025	7:45	45	52
17/10/2025	7:50	68	56
Hidden cells with no values exceeding limit.			
17/10/2025	16:35	36	52

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
17/10/2025	16:40	51	44
17/10/2025	16:45	63	57
17/10/2025	16:50	81	72
17/10/2025	16:55	76	79
17/10/2025	17:00	60	68
17/10/2025	17:05	49	54
17/10/2025	17:10	30	39
17/10/2025	17:15	20	25
Hidden cells with no values exceeding limit.			
21/10/2025	1:25	72	65
21/10/2025	1:30	49	60
21/10/2025	1:35	83	66
21/10/2025	1:40	92	88
21/10/2025	1:45		92
21/10/2025	1:50		
21/10/2025	1:55		
Hidden cells with no values exceeding limit.			
21/10/2025	3:45	29	35
21/10/2025	3:50	52	41
21/10/2025	3:55	80	66
21/10/2025	4:00	93	87
21/10/2025	4:05	103	98
21/10/2025	4:10	116	110
21/10/2025	4:15	117	116
21/10/2025	4:20	88	103
21/10/2025	4:25	45	67
21/10/2025	4:30	37	41
21/10/2025	4:35	67	52
21/10/2025	4:40	68	68
21/10/2025	4:45	76	72
21/10/2025	4:50	93	85
21/10/2025	4:55	63	78
21/10/2025	5:00	70	66
21/10/2025	5:05	70	70
21/10/2025	5:10	83	77
21/10/2025	5:15	72	78
21/10/2025	5:20	43	58
21/10/2025	5:25	38	40
21/10/2025	5:30	42	40
21/10/2025	5:35	38	40
21/10/2025	5:40	30	34
21/10/2025	5:45	56	43
21/10/2025	5:50	91	74
21/10/2025	5:55	47	69

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
21/10/2025	6:00	44	46
21/10/2025	6:05	27	36
Hidden cells with no values exceeding limit.			
21/10/2025	23:30	1	1
21/10/2025	23:35	1	1
21/10/2025	23:40	77	39
21/10/2025	23:45	66	71
21/10/2025	23:50	88	77
21/10/2025	23:55	105	97
22/10/2025	0:00	141	123
22/10/2025	0:05	99	120
22/10/2025	0:10	39	69
22/10/2025	0:15	25	32
22/10/2025	0:20	14	20
Hidden cells with no values exceeding limit.			
26/10/2025	17:00	1	1
26/10/2025	17:05	1	1
26/10/2025	17:10	3	2
26/10/2025	17:15	156	79
26/10/2025	17:20	123	139
26/10/2025	17:25	26	74
26/10/2025	17:30	9	17
26/10/2025	17:35	11	10
26/10/2025	17:40	62	36
26/10/2025	17:45	119	90
26/10/2025	17:50	138	128
26/10/2025	17:55	29	84
26/10/2025	18:00	49	39
26/10/2025	18:05	81	65
26/10/2025	18:10	50	66

**Notes:**

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedence Value Reported
<u>Max</u>	- Maximum of the Range
<u>Min</u>	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO<sub>2</sub> = 67 ppb for 10-minute running average

Total Number of Reportable Exceedences:

**34**

## SO2 Exceedance Report

Table E2

Durham York Energy Centre  
 Courtice, Ontario  
 Courtice Station  
 Baseline Corrected Data

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
05/11/2025	0:45	10	7
05/11/2025	0:50	57	33
05/11/2025	0:55	66	61
05/11/2025	1:00	94	80
05/11/2025	1:05	79	86
05/11/2025	1:10	43	61
05/11/2025	1:15	41	42
Hidden cells with no values exceeding limit.			
5/11/2025	3:25	30	34
5/11/2025	3:30	57	43
05/11/2025	3:35	70	63
05/11/2025	3:40	72	71
05/11/2025	3:45	68	70
5/11/2025	3:50	60	64
5/11/2025	3:55	31	46
Hidden cells with no values exceeding limit.			
21/11/2025	18:35	25	18
21/11/2025	18:40	38	32
21/11/2025	18:45	88	63
21/11/2025	18:50	53	70
21/11/2025	18:55	35	44
21/11/2025	19:00	23	29
21/11/2025	19:05	13	18
Hidden cells with no values exceeding limit.			
22/11/2025	19:35	20	12
22/11/2025	19:40	53	36
22/11/2025	19:45	63	58
22/11/2025	19:50	78	70
22/11/2025	19:55	28	53
22/11/2025	20:00	12	20
22/11/2025	20:05	15	14
Hidden cells with no values exceeding limit.			
22/11/2025	20:35	9	9
22/11/2025	20:40	65	37
22/11/2025	20:45	45	55
22/11/2025	20:50	114	79

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	10-minute Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
22/11/2025	20:55	201	157
22/11/2025	21:00	46	123
22/11/2025	21:05	55	50
22/11/2025	21:10	183	119
22/11/2025	21:15	57	120
22/11/2025	21:20	67	62
22/11/2025	21:25	34	51
Hidden cells with no values exceeding limit.			
22/11/2025	21:35	28	43
22/11/2025	21:40	24	26
22/11/2025	21:45	65	45
22/11/2025	21:50	77	71
22/11/2025	21:55	28	52
22/11/2025	22:00	128	78
22/11/2025	22:05	128	128
22/11/2025	22:10	62	95
22/11/2025	22:15	91	77
22/11/2025	22:20	106	98
22/11/2025	22:25	63	84
22/11/2025	22:30	35	49
22/11/2025	22:35	20	28
Hidden cells with no values exceeding limit.			
22/11/2025	22:45	15	16
22/11/2025	22:50	28	22
22/11/2025	22:55	49	39
22/11/2025	23:00	98	73
22/11/2025	23:05	122	110
22/11/2025	23:10	44	83
22/11/2025	23:15	28	36
22/11/2025	23:20	30	29
22/11/2025	23:25	27	28
Hidden cells with no values exceeding limit.			
23/11/2025	0:05	8	8
23/11/2025	0:10	7	8
23/11/2025	0:15	77	42
23/11/2025	0:20	84	80
23/11/2025	0:25	87	85
23/11/2025	0:30	123	105
23/11/2025	0:35	85	104
23/11/2025	0:40	36	61
23/11/2025	0:45	24	30
Hidden cells with no values exceeding limit.			
24/11/2025	7:30	55	50
24/11/2025	7:35	70	62

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
(dd/mm/yyyy)	(EST)	5-min Avg. (ppb)	10-minute Running Avg. (ppb)
24/11/2025	7:40	58	64
24/11/2025	7:45	94	76
24/11/2025	7:50	34	64
24/11/2025	7:55	23	29
24/11/2025	8:00	40	31
24/11/2025	8:05	110	75
24/11/2025	8:10	68	89
24/11/2025	8:15	30	49
24/11/2025	8:20	23	27

**Notes:**

D, T & V	- Date, Time & Exceedance Value Reported
Faded Values	- Not used to calculate the number of reportable exceedances
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
<u>Max</u>	- Maximum of the Range
<u>Min</u>	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO<sub>2</sub> = 67 ppb for 10-minute running average

Total Number of Reportable Exceedances:

<b>17</b>
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## SO2 Exceedance Report

Table E3

Durham York Energy Centre  
 Courtice, Ontario  
 Courtice Station  
 Baseline Corrected Data

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
16/10/2025	8:25	5	3
16/10/2025	8:30	4	3
16/10/2025	8:35	5	3
16/10/2025	8:40	6	4
16/10/2025	8:45	9	4
16/10/2025	8:50	4	4
16/10/2025	8:55	6	5
16/10/2025	9:00	9	5
16/10/2025	9:05	6	5
16/10/2025	9:10	8	6
16/10/2025	9:15	20	7
16/10/2025	9:20	92	14
16/10/2025	9:25	178	29
16/10/2025	9:30	192	45
16/10/2025	9:35	244	64
16/10/2025	9:40	158	77
16/10/2025	9:45	117	86
16/10/2025	9:50	186	101
16/10/2025	9:55	56	105
16/10/2025	10:00	45	108
16/10/2025	10:05	44	111
16/10/2025	10:10	23	113
16/10/2025	10:15	14	112
16/10/2025	10:20	19	106
16/10/2025	10:25	27	94
16/10/2025	10:30	33	80
16/10/2025	10:35	28	62
16/10/2025	10:40	20	51
16/10/2025	10:45	28	44
16/10/2025	10:50	26	30
16/10/2025	10:55	20	27
16/10/2025	11:00	13	25
16/10/2025	11:05	23	23
16/10/2025	11:10	13	22
16/10/2025	11:15	13	22
16/10/2025	11:20	13	21

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
16/10/2025	11:25	19	21
16/10/2025	11:30	22	20
16/10/2025	11:35	17	19
Hidden cells with no values exceeding limit.			
17/10/2025	0:05	24	15
17/10/2025	0:10	28	17
17/10/2025	0:15	32	19
17/10/2025	0:20	29	21
17/10/2025	0:25	36	24
17/10/2025	0:30	35	26
17/10/2025	0:35	29	26
17/10/2025	0:40	29	27
17/10/2025	0:45	38	29
17/10/2025	0:50	44	31
17/10/2025	0:55	45	33
17/10/2025	1:00	61	36
17/10/2025	1:05	55	38
17/10/2025	1:10	54	41
17/10/2025	1:15	64	43
17/10/2025	1:20	36	44
17/10/2025	1:25	62	46
17/10/2025	1:30	58	48
17/10/2025	1:35	21	47
17/10/2025	1:40	16	46
17/10/2025	1:45		47
17/10/2025	1:50		47
17/10/2025	1:55		47
17/10/2025	2:00		
17/10/2025	2:05		
17/10/2025	2:10		
17/10/2025	2:15	47	
17/10/2025	2:20	25	
17/10/2025	2:25	19	
17/10/2025	2:30	20	
17/10/2025	2:35	15	
17/10/2025	2:40	16	
17/10/2025	2:45	12	
17/10/2025	2:50	15	
17/10/2025	2:55	54	
17/10/2025	3:00	38	26
17/10/2025	3:05	48	28
17/10/2025	3:10	62	31
17/10/2025	3:15	48	31
17/10/2025	3:20	30	31

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
17/10/2025	3:25	40	33
17/10/2025	3:30	46	35
17/10/2025	3:35	97	42
17/10/2025	3:40	104	50
17/10/2025	3:45	99	57
17/10/2025	3:50	105	64
17/10/2025	3:55	90	67
17/10/2025	4:00	100	72
17/10/2025	4:05	69	74
17/10/2025	4:10	60	74
17/10/2025	4:15	39	73
17/10/2025	4:20	29	73
17/10/2025	4:25	20	72
17/10/2025	4:30	15	69
17/10/2025	4:35	35	64
17/10/2025	4:40	100	63
17/10/2025	4:45	64	60
17/10/2025	4:50	41	55
17/10/2025	4:55	53	52
17/10/2025	5:00	42	47
17/10/2025	5:05	25	43
17/10/2025	5:10	18	40
17/10/2025	5:15	15	38
17/10/2025	5:20	31	38
17/10/2025	5:25	69	42
17/10/2025	5:30	72	47
17/10/2025	5:35	61	49
17/10/2025	5:40	58	46
17/10/2025	5:45	70	46
17/10/2025	5:50	66	48
17/10/2025	5:55	54	48
17/10/2025	6:00	31	47
17/10/2025	6:05	30	48
17/10/2025	6:10	28	49
17/10/2025	6:15	28	50
17/10/2025	6:20	55	52
17/10/2025	6:25	52	50
17/10/2025	6:30	38	48
17/10/2025	6:35	28	45
17/10/2025	6:40	46	44
17/10/2025	6:45	39	41
17/10/2025	6:50	46	39
17/10/2025	6:55	50	39
17/10/2025	7:00	72	43

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
17/10/2025	7:05	86	47
17/10/2025	7:10	40	48
17/10/2025	7:15	31	48
17/10/2025	7:20	51	48
17/10/2025	7:25	49	48
17/10/2025	7:30	66	50
17/10/2025	7:35	82	55
17/10/2025	7:40	58	56
17/10/2025	7:45	45	56
17/10/2025	7:50	68	58
17/10/2025	7:55	51	58
17/10/2025	8:00	41	56
17/10/2025	8:05	45	52
17/10/2025	8:10	51	53
17/10/2025	8:15	46	54
17/10/2025	8:20	52	55
17/10/2025	8:25	58	55
17/10/2025	8:30	55	54
17/10/2025	8:35	49	52
17/10/2025	8:40	34	50
17/10/2025	8:45	20	48
17/10/2025	8:50	16	43
17/10/2025	8:55	29	41
17/10/2025	9:00	43	42
17/10/2025	9:05	38	41
17/10/2025	9:10	29	39
17/10/2025	9:15	37	38
17/10/2025	9:20	51	38
17/10/2025	9:25	56	38
17/10/2025	9:30	40	37
17/10/2025	9:35	22	35
17/10/2025	9:40	35	35
Hidden cells with no values exceeding limit.			
17/10/2025	15:55	2	2
17/10/2025	16:00	2	2
17/10/2025	16:05	2	2
17/10/2025	16:10	2	2
17/10/2025	16:15	2	2
17/10/2025	16:20	19	3
17/10/2025	16:25	58	8
17/10/2025	16:30	67	14
17/10/2025	16:35	36	16
17/10/2025	16:40	51	20
17/10/2025	16:45	63	26

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
17/10/2025	16:50	81	32
17/10/2025	16:55	76	38
17/10/2025	17:00	60	43
17/10/2025	17:05	49	47
17/10/2025	17:10	30	49
17/10/2025	17:15	20	51
17/10/2025	17:20	15	51
17/10/2025	17:25	12	47
17/10/2025	17:30	11	42
17/10/2025	17:35	10	40
17/10/2025	17:40	9	36
17/10/2025	17:45	9	32
17/10/2025	17:50	8	26
17/10/2025	17:55	8	20
17/10/2025	18:00	7	16
17/10/2025	18:05	7	12
Hidden cells with no values exceeding limit.			
20/10/2025	23:35	3	3
20/10/2025	23:40	4	3
20/10/2025	23:45	3	3
20/10/2025	23:50	2	3
20/10/2025	23:55	2	3
21/10/2025	0:00	26	5
21/10/2025	0:05	59	9
21/10/2025	0:10	46	13
21/10/2025	0:15	72	19
21/10/2025	0:20	53	23
21/10/2025	0:25	44	26
21/10/2025	0:30	68	32
21/10/2025	0:35	48	35
21/10/2025	0:40	74	41
21/10/2025	0:45	45	45
21/10/2025	0:50	51	49
21/10/2025	0:55	36	52
21/10/2025	1:00	17	51
21/10/2025	1:05	13	47
21/10/2025	1:10	48	47
21/10/2025	1:15	68	47
21/10/2025	1:20	59	48
21/10/2025	1:25	72	50
21/10/2025	1:30	49	48
21/10/2025	1:35	83	51
21/10/2025	1:40	92	53
21/10/2025	1:45		53

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
21/10/2025	1:50		54
21/10/2025	1:55		56
21/10/2025	2:00		61
21/10/2025	2:05		67
21/10/2025	2:10		71
21/10/2025	2:15	12	61
21/10/2025	2:20	11	53
21/10/2025	2:25	9	43
21/10/2025	2:30	30	40
21/10/2025	2:35	76	38
21/10/2025	2:40	41	30
21/10/2025	2:45	21	29
21/10/2025	2:50	14	27
21/10/2025	2:55	11	25
21/10/2025	3:00	11	24
21/10/2025	3:05	12	23
21/10/2025	3:10	69	27
21/10/2025	3:15	36	29
21/10/2025	3:20	83	34
21/10/2025	3:25	45	38
21/10/2025	3:30	60	40
21/10/2025	3:35	47	38
21/10/2025	3:40	41	38
21/10/2025	3:45	29	38
21/10/2025	3:50	52	41
21/10/2025	3:55	80	47
21/10/2025	4:00	93	54
21/10/2025	4:05	103	62
21/10/2025	4:10	116	66
21/10/2025	4:15	117	72
21/10/2025	4:20	88	73
21/10/2025	4:25	45	73
21/10/2025	4:30	37	71
21/10/2025	4:35	67	72
21/10/2025	4:40	68	75
21/10/2025	4:45	76	79
21/10/2025	4:50	93	82
21/10/2025	4:55	63	81
21/10/2025	5:00	70	79
21/10/2025	5:05	70	76
21/10/2025	5:10	83	73
21/10/2025	5:15	72	70
21/10/2025	5:20	43	66
21/10/2025	5:25	38	65

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
21/10/2025	5:30	42	66
21/10/2025	5:35	38	63
21/10/2025	5:40	30	60
21/10/2025	5:45	56	58
21/10/2025	5:50	91	58
21/10/2025	5:55	47	57
21/10/2025	6:00	44	55
21/10/2025	6:05	27	51
21/10/2025	6:10	21	46
21/10/2025	6:15	17	41
21/10/2025	6:20	15	39
21/10/2025	6:25	13	37
21/10/2025	6:30	12	34
21/10/2025	6:35	11	32
Hidden cells with no values exceeding limit.			
21/10/2025	22:55	1	1
21/10/2025	23:00	1	1
21/10/2025	23:05	1	1
21/10/2025	23:10	1	1
21/10/2025	23:15	1	1
21/10/2025	23:20	1	1
21/10/2025	23:25	1	1
21/10/2025	23:30	1	1
21/10/2025	23:35	1	1
21/10/2025	23:40	77	8
21/10/2025	23:45	66	13
21/10/2025	23:50	88	20
21/10/2025	23:55	105	29
22/10/2025	0:00	141	41
22/10/2025	0:05	99	49
22/10/2025	0:10	39	52
22/10/2025	0:15	25	54
22/10/2025	0:20	14	55
22/10/2025	0:25	12	56
22/10/2025	0:30	10	56
22/10/2025	0:35	9	57
22/10/2025	0:40	8	51
22/10/2025	0:45	7	46
22/10/2025	0:50	7	40
22/10/2025	0:55	6	31
22/10/2025	1:00	5	20
22/10/2025	1:05	5	12
Hidden cells with no values exceeding limit.			
25/10/2025	23:35	5	11

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
25/10/2025	23:40	3	9
25/10/2025	23:45	12	6
25/10/2025	23:50	37	8
25/10/2025	23:55	26	9
26/10/2025	0:00	52	13
26/10/2025	0:05	50	17
26/10/2025	0:10	65	22
26/10/2025	0:15	66	27
26/10/2025	0:20	47	31
26/10/2025	0:25	32	33
26/10/2025	0:30	41	36
26/10/2025	0:35	39	39
26/10/2025	0:40	31	42
26/10/2025	0:45	34	43
26/10/2025	0:50	38	43
26/10/2025	0:55	27	44
26/10/2025	1:00	17	41
26/10/2025	1:05	13	38
26/10/2025	1:10	11	33
26/10/2025	1:15	11	29
26/10/2025	1:20	14	26
26/10/2025	1:25	11	24
26/10/2025	1:30	11	22
26/10/2025	1:35	17	20
26/10/2025	1:40	16	18
26/10/2025	1:45		17
Hidden cells with no values exceeding limit.			
26/10/2025	16:40	1	1
26/10/2025	16:45	1	1
26/10/2025	16:50	1	1
26/10/2025	16:55	1	1
26/10/2025	17:00	1	1
26/10/2025	17:05	1	1
26/10/2025	17:10	3	1
26/10/2025	17:15	156	14
26/10/2025	17:20	123	24
26/10/2025	17:25	26	26
26/10/2025	17:30	9	27
26/10/2025	17:35	11	28
26/10/2025	17:40	62	33
26/10/2025	17:45	119	43
26/10/2025	17:50	138	54
26/10/2025	17:55	29	56
26/10/2025	18:00	49	60

Date	Time	SO <sub>2</sub>	
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
26/10/2025	18:05	81	67
26/10/2025	18:10	50	71
26/10/2025	18:15	44	62
26/10/2025	18:20	23	53
26/10/2025	18:25	14	52
26/10/2025	18:30	10	52
26/10/2025	18:35	28	54
26/10/2025	18:40	25	51
26/10/2025	18:45	14	42
26/10/2025	18:50	9	31
26/10/2025	18:55	8	30
26/10/2025	19:00	38	29
26/10/2025	19:05	38	25
26/10/2025	19:10	38	24
26/10/2025	19:15	19	22
26/10/2025	19:20	11	21
26/10/2025	19:25	9	21
26/10/2025	19:30	7	20
26/10/2025	19:35	6	18
26/10/2025	19:40	5	17
26/10/2025	19:45	5	16
26/10/2025	19:50	5	16
Hidden cells with no values exceeding limit.			
27/10/2025	17:35	3	1
27/10/2025	17:40	8	2
27/10/2025	17:45	28	4
27/10/2025	17:50	27	6
27/10/2025	17:55	35	9
27/10/2025	18:00	44	13
27/10/2025	18:05	45	16
27/10/2025	18:10	39	19
27/10/2025	18:15	50	24
27/10/2025	18:20	44	27
27/10/2025	18:25	40	30
27/10/2025	18:30	43	34
27/10/2025	18:35	50	38
27/10/2025	18:40	49	41
27/10/2025	18:45	51	43
27/10/2025	18:50	54	45
27/10/2025	18:55	49	47
27/10/2025	19:00	45	47
27/10/2025	19:05	41	46
27/10/2025	19:10	54	47
27/10/2025	19:15	57	48

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
27/10/2025	19:20	68	50
27/10/2025	19:25	62	52
27/10/2025	19:30	66	54
27/10/2025	19:35	58	54
27/10/2025	19:40	62	55
27/10/2025	19:45	57	56
27/10/2025	19:50	44	55
27/10/2025	19:55	40	54
27/10/2025	20:00	35	53
27/10/2025	20:05	33	53
27/10/2025	20:10	31	51
27/10/2025	20:15	27	48
27/10/2025	20:20	23	45
27/10/2025	20:25	21	41
27/10/2025	20:30	21	38
27/10/2025	20:35	29	35
27/10/2025	20:40	25	32
27/10/2025	20:45	30	30

**Notes:**

D, T & V	- Date, Time & Exceedance Value Reported
Faded Values	- Not used to calculate the number of reportable exceedances
	- Range of 5-minute measurements that contribute to the Exceedance Value Reported
<u>Max</u>	- Maximum of the Range
<u>Min</u>	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO<sub>2</sub> = 40 ppb for 1-hour running average

Total Number of Reportable Exceedances: **21**

## SO2 Exceedance Report

Table E4

Durham York Energy Centre  
 Courtice, Ontario  
 Courtice Station  
 Baseline Corrected Data

Date (dd/mm/yyyy)	Time (EST)	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg. (ppb)	1-hr Running Avg. (ppb)
05/11/2025	0:20	20	5
05/11/2025	0:25	15	5
05/11/2025	0:30	8	5
05/11/2025	0:35	4	5
05/11/2025	0:40	3	5
05/11/2025	0:45	10	6
05/11/2025	0:50	57	10
05/11/2025	0:55	66	16
05/11/2025	1:00	94	23
05/11/2025	1:05	79	30
05/11/2025	1:10	43	33
05/11/2025	1:15	41	37
05/11/2025	1:20	28	37
05/11/2025	1:25	64	41
05/11/2025	1:30	26	43
05/11/2025	1:35	40	46
05/11/2025	1:40	38	49
05/11/2025	1:45		52
05/11/2025	1:50		52
05/11/2025	1:55		50
05/11/2025	2:00		45
05/11/2025	2:05		40
05/11/2025	2:10		39
05/11/2025	2:15	27	37
05/11/2025	2:20	36	38
05/11/2025	2:25	23	32
05/11/2025	2:30	24	31
Hidden cells with no values exceeding limit.			
05/11/2025	2:40	21	26
05/11/2025	2:45	14	25
05/11/2025	2:50	22	24
05/11/2025	2:55	30	25
05/11/2025	3:00	20	24
05/11/2025	3:05	36	25
05/11/2025	3:10	23	25
05/11/2025	3:15	24	25

Date	Time	SO <sub>2</sub>	
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
05/11/2025	3:20	39	25
05/11/2025	3:25	30	26
05/11/2025	3:30	57	29
05/11/2025	3:35	70	32
05/11/2025	3:40	72	36
05/11/2025	3:45	68	41
05/11/2025	3:50	60	44
05/11/2025	3:55	31	44
05/11/2025	4:00	19	44
05/11/2025	4:05	21	43
05/11/2025	4:10	26	43
05/11/2025	4:15	29	43
05/11/2025	4:20	23	42
05/11/2025	4:25	18	41
05/11/2025	4:30	15	38
05/11/2025	4:35	19	33
05/11/2025	4:40	25	29
05/11/2025	4:45	38	27
05/11/2025	4:50	31	24
Hidden cells with no values exceeding limit.			
06/11/2025	23:10	6	18
06/11/2025	23:15	6	16
06/11/2025	23:20	25	17
06/11/2025	23:25	38	18
06/11/2025	23:30	21	19
06/11/2025	23:35	30	18
06/11/2025	23:40	42	20
06/11/2025	23:45	37	21
06/11/2025	23:50	54	24
06/11/2025	23:55	71	29
07/11/2025	0:00	47	32
07/11/2025	0:05	51	36
07/11/2025	0:10	48	39
07/11/2025	0:15	65	44
07/11/2025	0:20	41	45
07/11/2025	0:25	36	45
07/11/2025	0:30	23	45
07/11/2025	0:35	19	45
07/11/2025	0:40	19	43
07/11/2025	0:45	31	42
07/11/2025	0:50	26	40
07/11/2025	0:55	32	37
07/11/2025	1:00	51	37
07/11/2025	1:05	33	35

Date	Time	SO <sub>2</sub>	
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
07/11/2025	1:10	31	34
07/11/2025	1:15	45	32
07/11/2025	1:20	44	33
07/11/2025	1:25	40	33
07/11/2025	1:30	37	34
07/11/2025	1:35	41	36
07/11/2025	1:40	49	38
07/11/2025	1:45		39
07/11/2025	1:50		40
07/11/2025	1:55		41
07/11/2025	2:00		40
07/11/2025	2:05		41
07/11/2025	2:10		43
07/11/2025	2:15	15	38
07/11/2025	2:20	12	32
07/11/2025	2:25	11	27
07/11/2025	2:30	10	23
07/11/2025	2:35	9	18
07/11/2025	2:40	8	11
07/11/2025	2:45	7	10
07/11/2025	2:50	7	10
07/11/2025	2:55	6	9
Hidden cells with no values exceeding limit.			
14/11/2025	18:10	10	16
14/11/2025	18:15	10	16
14/11/2025	18:20	18	16
14/11/2025	18:25	30	18
14/11/2025	18:30	56	22
14/11/2025	18:35	54	25
14/11/2025	18:40	67	30
14/11/2025	18:45	49	33
14/11/2025	18:50	31	33
14/11/2025	18:55	38	34
14/11/2025	19:00	66	37
14/11/2025	19:05	28	38
14/11/2025	19:10	18	39
14/11/2025	19:15	33	41
14/11/2025	19:20	49	43
14/11/2025	19:25	43	44
14/11/2025	19:30	32	42
14/11/2025	19:35	34	41
14/11/2025	19:40	33	38
14/11/2025	19:45	27	36
14/11/2025	19:50	15	35

Date	Time	SO <sub>2</sub>	
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
14/11/2025	19:55	37	35
14/11/2025	20:00	35	32
14/11/2025	20:05	37	33
14/11/2025	20:10	46	35
14/11/2025	20:15	31	35
14/11/2025	20:20	28	33
Hidden cells with no values exceeding limit.			
21/11/2025	17:45	3	2
21/11/2025	17:50	3	2
21/11/2025	17:55	3	2
21/11/2025	18:00	34	5
21/11/2025	18:05	51	9
21/11/2025	18:10	69	15
21/11/2025	18:15	56	19
21/11/2025	18:20	47	23
21/11/2025	18:25	14	24
21/11/2025	18:30	11	25
21/11/2025	18:35	25	27
21/11/2025	18:40	38	29
21/11/2025	18:45	88	36
21/11/2025	18:50	53	41
21/11/2025	18:55	35	43
21/11/2025	19:00	23	42
21/11/2025	19:05	13	39
21/11/2025	19:10	10	34
21/11/2025	19:15	8	30
21/11/2025	19:20	25	29
21/11/2025	19:25	27	30
21/11/2025	19:30	17	30
21/11/2025	19:35	11	29
21/11/2025	19:40	8	26
21/11/2025	19:45	7	20
21/11/2025	19:50	6	16
21/11/2025	19:55	5	13
Hidden cells with no values exceeding limit.			
22/11/2025	19:50	78	27
22/11/2025	19:55	28	29
22/11/2025	20:00	12	29
22/11/2025	20:05	15	26
22/11/2025	20:10	56	29
22/11/2025	20:15	52	32
22/11/2025	20:20	32	35
22/11/2025	20:25	14	36
22/11/2025	20:30	10	36

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
22/11/2025	20:35	9	35
22/11/2025	20:40	65	36
22/11/2025	20:45	45	35
22/11/2025	20:50	114	38
22/11/2025	20:55	201	52
22/11/2025	21:00	46	55
22/11/2025	21:05	55	58
22/11/2025	21:10	183	69
22/11/2025	21:15	57	69
22/11/2025	21:20	67	72
22/11/2025	21:25	34	74
22/11/2025	21:30	58	78
22/11/2025	21:35	28	79
22/11/2025	21:40	24	76
22/11/2025	21:45	65	78
22/11/2025	21:50	77	75
22/11/2025	21:55	28	60
22/11/2025	22:00	128	67
22/11/2025	22:05	128	73
22/11/2025	22:10	62	63
22/11/2025	22:15	91	66
22/11/2025	22:20	106	69
22/11/2025	22:25	63	72
22/11/2025	22:30	35	70
22/11/2025	22:35	20	69
22/11/2025	22:40	16	68
22/11/2025	22:45	15	64
22/11/2025	22:50	28	60
22/11/2025	22:55	49	62
22/11/2025	23:00	98	59
22/11/2025	23:05	122	59
22/11/2025	23:10	44	57
22/11/2025	23:15	28	52
22/11/2025	23:20	30	46
22/11/2025	23:25	27	43
22/11/2025	23:30	20	41
22/11/2025	23:35	15	41
22/11/2025	23:40	13	41
22/11/2025	23:45	12	41
22/11/2025	23:50	12	39
22/11/2025	23:55	10	36
23/11/2025	0:00	9	28
23/11/2025	0:05	8	19
23/11/2025	0:10	7	16

Date	Time	SO <sub>2</sub>	SO <sub>2</sub>
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
23/11/2025	0:15	77	20
23/11/2025	0:20	84	24
23/11/2025	0:25	87	29
23/11/2025	0:30	123	38
23/11/2025	0:35	85	44
23/11/2025	0:40	36	46
23/11/2025	0:45	24	47
23/11/2025	0:50	18	47
23/11/2025	0:55	15	48
23/11/2025	1:00	13	48
23/11/2025	1:05	11	48
23/11/2025	1:10	20	49
23/11/2025	1:15	17	44
23/11/2025	1:20	12	39
23/11/2025	1:25	10	32
23/11/2025	1:30	9	23
23/11/2025	1:35	8	16
23/11/2025	1:40	8	14
Hidden cells with no values exceeding limit.			
24/11/2025	6:55	4	11
24/11/2025	7:00	3	11
24/11/2025	7:05	17	12
24/11/2025	7:10	14	12
24/11/2025	7:15	17	12
24/11/2025	7:20	50	16
24/11/2025	7:25	45	18
24/11/2025	7:30	55	22
24/11/2025	7:35	70	26
24/11/2025	7:40	58	29
24/11/2025	7:45	94	36
24/11/2025	7:50	34	38
24/11/2025	7:55	23	40
24/11/2025	8:00	40	43
24/11/2025	8:05	110	51
24/11/2025	8:10	68	55
24/11/2025	8:15	30	56
24/11/2025	8:20	23	54
24/11/2025	8:25	18	52
24/11/2025	8:30	15	49
24/11/2025	8:35	14	44
24/11/2025	8:40	13	40
24/11/2025	8:45	12	33
24/11/2025	8:50	11	31

Date	Time	SO <sub>2</sub>	
		5-min Avg.	1-hr Running Avg.
(dd/mm/yyyy)	(EST)	(ppb)	(ppb)
24/11/2025	8:55	10	30
24/11/2025	9:00	10	28
24/11/2025	9:05	9	19

**Notes:**

D, T & V	- Date, Time & Exceedence Value Reported
Faded Values	- Not used to calculate the number of reportable exceedences
	- Range of 5-minute measurements that contribute to the Exceedence Value Reported
<u>Max</u>	- Maximum of the Range
<u>Min</u>	- Minimum of the Range

Ambient Air Quality Criteria (AAQC) for SO<sub>2</sub> = 40 ppb for 1-hour running average

Total Number of Reportable Exceedences:

<b>11</b>
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The page features a decorative background with a large beige curved shape on the right and a blue curved shape on the left, separated by a white gap. The text 'APPENDIX F' is centered within the beige area.

# APPENDIX F



600 Southgate Drive  
Guelph, ON N1G 4P6  
Canada

Tel: +1.519.823.1311  
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E-mail: solutions@rwdi.com

February 13, 2026

Nicia Williams,  
P. Eng, Project Manager  
The Region Municipality of Druham  
Durham York Energy Centre  
605 Rossland Road East, 1st Floor.  
Whitby, ON L1N 6A3  
Nicia.Williams@durham.ca

**Re: Durham York Energy Centre (DYEC)  
2025 Ambient Air Q4 Sulphur Dioxide Emissions  
RWDI Reference No. 2600650**

In support of the 2025, Q4 Ambient Air Quality Monitoring Report prepared by RWDI Inc., the following information is provided in relation to the performance of the DYEC during the periods of elevated sulphur dioxide (SO<sub>2</sub>) concentrations observed at the facility's Courtice and Rundle ambient air monitoring stations.

The Emission Summary and Dispersion Modelling (ESDM) report submitted as part of the DYEC ECA Application modelled SO<sub>2</sub> concentrations at the maximum point of impingement (POI) for a facility operating at 110% maximum continuous rating (MCR) with in-stack SO<sub>2</sub> concentrations at the permit limit of 35 mg/m<sup>3</sup>. Under this conservative assumed facility operating condition, the predicted maximum 1-hour average concentration at the POI was 8.62 µg/m<sup>3</sup>, which represents 8.62% of the new ambient air standard of 100 µg/m<sup>3</sup>, which was implemented in 2020.

During Q4, there were fifty-one (51) exceedance events above the rolling 10-minute SO<sub>2</sub> Ambient Air Quality Criteria (AAQC) and thirty-two (32) exceedance events above the rolling 1-hour SO<sub>2</sub> AAQC recorded at the Courtice station. There were no exceedance events above the rolling 10-minute SO<sub>2</sub> Ambient Air Quality Criteria (AAQC) or rolling 1-hour SO<sub>2</sub> AAQC recorded at the Rundle Road station.

Each of the date and times of the SO<sub>2</sub> AAQC exceedances were compared against the wind direction recorded at the ambient air stations as well as the SO<sub>2</sub> concentrations measured at the DYEC by the continuous emissions monitoring system (CEMS).

As indicated by RWDI in the 2025 DYEC Ambient Air Q4 Report, the Courtice Station pollution rose in **Figure 6** shows the majority of elevated SO<sub>2</sub> events at Courtice occurred from the north to northeast directions. The events were likely a result of emissions from surrounding industrial sources when winds are from the north and north-northeast directions. The results from the 2024 SO<sub>2</sub> study technical memo suggest that the SO<sub>2</sub> concentrations recorded when winds are from the north and north-northeast directions are likely from the chemical handling building, which is part of the Courtice Water Pollution Control Plant. When winds are from the north and north-northeast, the Courtice station is placed downwind of the chemical handling building. When winds from the northeast place the Courtice station downwind of the facility, the data suggests the DYEC potentially contributed to the measured concentrations during the downwind periods. The Courtice station pollution rose in **Figure 7** shows that <0.37% of the 5-min SO<sub>2</sub> events are elevated >67 ppb and the majority occurred from the north to northeast directions.

The Rundle Road Station pollution rose in **Figure 6** shows no elevated SO<sub>2</sub> events. The Rundle Road station pollution rose in **Figure 7** shows that there were no 5-min SO<sub>2</sub> events elevated >67 ppb.

During the times the SO<sub>2</sub> AAQC events occurred, both boilers CEMS concentrations, comprised of 24-hour rolling arithmetic average, were recorded between 0-20 mg/Rm3. The DYEC's CEMS concentrations for both boilers were below the DYEC regulatory compliance limit of 35 mg/Rm3 and the facility was operating under normal conditions.