

**Quarterly Ambient Air Quality  
Monitoring Report for the Durham  
York Energy Centre – January to  
March 2015**

Durham York Energy Centre



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## **Sign-off Sheet**

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**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY  
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# **QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

## **Executive Summary**

The Regional Municipalities of Durham and York are constructing the Durham York Energy Centre (DYEC) which is an Energy-from-Waste (EFW) Facility intended to provide a long-term, sustainable solution to manage municipal solid waste remaining after diversion from the Regions. The facility commenced processing waste on February 13, 2015 and is currently in the commissioning phase of the project.

The Ambient Air Quality Monitoring Plan - Durham York Residual Waste Study (Stantec, 2012), was developed based on the Regional Council's mandate to provide ambient air quality monitoring in the area of the DYEC for a three year period. An ambient air quality monitoring and reporting program was also a requirement laid out in the Provincial Minister's Notice of Approval to Proceed with the Undertaking, detailed in Condition 11 of the Notice of Approval (MOECC, 2010). The air monitoring plan was also developed to satisfy the conditions of the Environmental Compliance Approval and the environmental mitigation and commitments set out in the Environmental Assessment (Jacques Whitford, 2009). The predominantly downwind station is located along Rundle Road, south of Baseline Road. The predominantly upwind station is sited at the Courtice Water Pollution Control Plant (WPCP). Since May 2013, measurements of the following air contaminants have been made at the two stations:

- Sulphur Dioxide ( $\text{SO}_2$ );
- Nitrogen Oxides ( $\text{NO}_x$ );
- Particulate Matter smaller than 2.5 microns ( $\text{PM}_{2.5}$ );
- Metals in total suspended particulate matter (TSP);
- Polycyclic Aromatic Hydrocarbons (PAHs); and,
- Dioxins and Furans.

Operation of the non-continuous monitors was temporarily discontinued on June 28, 2014 as per Section 1.2 of the Ambient Monitoring Plan (Stantec, 2012), which calls for collection of continuous parameters only during commissioning of the Facility. When the EFW facility is fully operational, monitoring of non-continuous monitors will resume (as specified in the Ambient Monitoring Plan).

Meteorological data is also measured at the two stations. The predominantly downwind Rundle Road station measures horizontal wind speed, wind direction, atmospheric temperature, relative humidity and rainfall. The predominantly upwind Courtice WPCP Station measures atmospheric temperature, relative humidity, rainfall and barometric pressure. Wind speed and wind direction data at the predominantly upwind location are measured and provided by the Courtice Water Pollution Control Plant.

## **QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

This quarterly report provides a summary of the ambient air quality data collected at these two stations for the period January to March (Calendar Quarter 1). During this quarter, a few instrumentation issues were encountered with above acceptable data recovery rates for all measured air quality parameters. Additional details on instrumentation issues are presented in **Section 3.2** of this report.

The following observations and conclusions were made from a review of the measured ambient air quality monitoring data:

1. Measured levels of NO<sub>2</sub>, SO<sub>2</sub> and PM<sub>2.5</sub> were below the applicable O. Reg. 419/05 criteria or human health risk assessment (HHRA) health-based standards presented in **Table 2-2** of this report;
2. Since the Canadian Ambient Air Quality Standard (CAAQS) for PM<sub>2.5</sub> is based on a 98th percentile level over 3 years, whereas the PM<sub>2.5</sub> measurement period at both stations for this quarterly report was three months, there is insufficient data collected to determine with any certainty if exceedances of the CAAQS would occur. Therefore no comparison of the measured PM<sub>2.5</sub> data during this quarter to the CAAQS was conducted for this report, as it would not be scientifically accurate or representative;
3. In summary, all monitored contaminants were below their applicable MOECC criteria for the monitoring data presented in this report. All measured levels of all monitored contaminants were below their applicable HHRA health-based standards.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Abbreviations

AAQC	Ambient Air Quality Criteria
CAAQS	Canadian Ambient Air Quality Standards
CAC	Criteria Air Contaminants
D/Fs	Dioxins and Furans
DYEC	Durham York Energy Centre
EFW	Energy from Waste
MOECC	Ontario Ministry of the Environment and Climate Change
SO <sub>2</sub>	Sulphur Dioxide
NO <sub>x</sub>	Nitrogen Oxides
PAH	Polycyclic aromatic hydrocarbons
Particulate	A particle of a solid or liquid that is suspended in air.
PCB	Polychlorinated biphenyl
PCDD/PCDF	Polychlorinated dibenzo-p-dioxins and dibenzofurans
PM	Particulate Matter
PM <sub>2.5</sub>	Particulate Matter smaller than 2.5 microns
TEQ	Toxic equivalent quotient
TEQs	Toxic Equivalents
TSP	Total Suspended Particulate
WPCP	Water Pollution Control Plant

Elements	
Cd	Cadmium
Hg	Mercury
Pb	Lead
Al	Aluminum
As	Arsenic
Be	Beryllium
Cr	Chromium
Cu	Copper
Mn	Manganese
Ni	Nickel
Ag	Silver

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY  
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Tl	Thallium
Sn	Tin
V	Vanadium
Zn	Zinc
<b>Miscellaneous</b>	
°C	temperature in degrees Celsius
N/A	not available
%	percent
ppm	part per million
ppb	part per billion
ppt	part per trillion
min	minimum
max	maximum
µg/m <sup>3</sup>	microgram per cubic metre

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Introduction  
May 13, 2015

## 1.0 INTRODUCTION

### 1.1 BACKGROUND AND OBJECTIVES

The Regional Municipalities of Durham and York are constructing the Durham York Energy Centre (DYEC) which is an Energy-from-Waste (EFW) Facility intended to provide a long-term, sustainable solution to manage municipal solid waste remaining after diversion from the Regions. The site location of the DYEC is shown in **Figure 1-1**. The facility commenced processing waste on February 13, 2015 and is currently in the commissioning phase of the project.

A monitoring plan, Ambient Air Quality Monitoring Plan - Durham York Residual Waste Study (Stantec, 2012), was developed based on the Regional Council's mandate to provide ambient air quality monitoring in the area of the DYEC for a three year period.

The purposes of the ambient air quality monitoring program are to:

1. Quantify any measureable 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 (Jacques Whitford, 2009);
2. Monitor concentration levels of EFW-related air contaminants in nearby residential areas; and,
3. Quantify background ambient levels of air contaminants in the area.

Two monitoring stations in the vicinity of the DYEC were set up in April 2013. Since May 2013, the two stations have measured the following air contaminants:

- Sulphur Dioxide ( $\text{SO}_2$ );
- Nitrogen Oxides ( $\text{NO}_x$ );
- Particulate Matter smaller than 2.5 microns ( $\text{PM}_{2.5}$ );
- Metals in Total Suspended Particulate matter (TSP);
- Polycyclic Aromatic Hydrocarbons (PAHs); and,
- Dioxins and Furans.

This quarterly report provides a summary of the ambient air quality data collected at these two stations for the period January to March 2015.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Introduction

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Operation of the non-continuous monitors was temporarily discontinued on June 28, 2014 as per Section 1.2 of the Ambient Monitoring Plan (Stantec, 2012), which calls for collection of continuous parameters only during commissioning of the Facility. When the EFW facility is fully operational, monitoring of non-continuous monitors will resume as specified in the Ambient Monitoring Plan (Stantec, 2012).

## 1.2 LOCATIONS OF AMBIENT AIR QUALITY MONITORING STATIONS

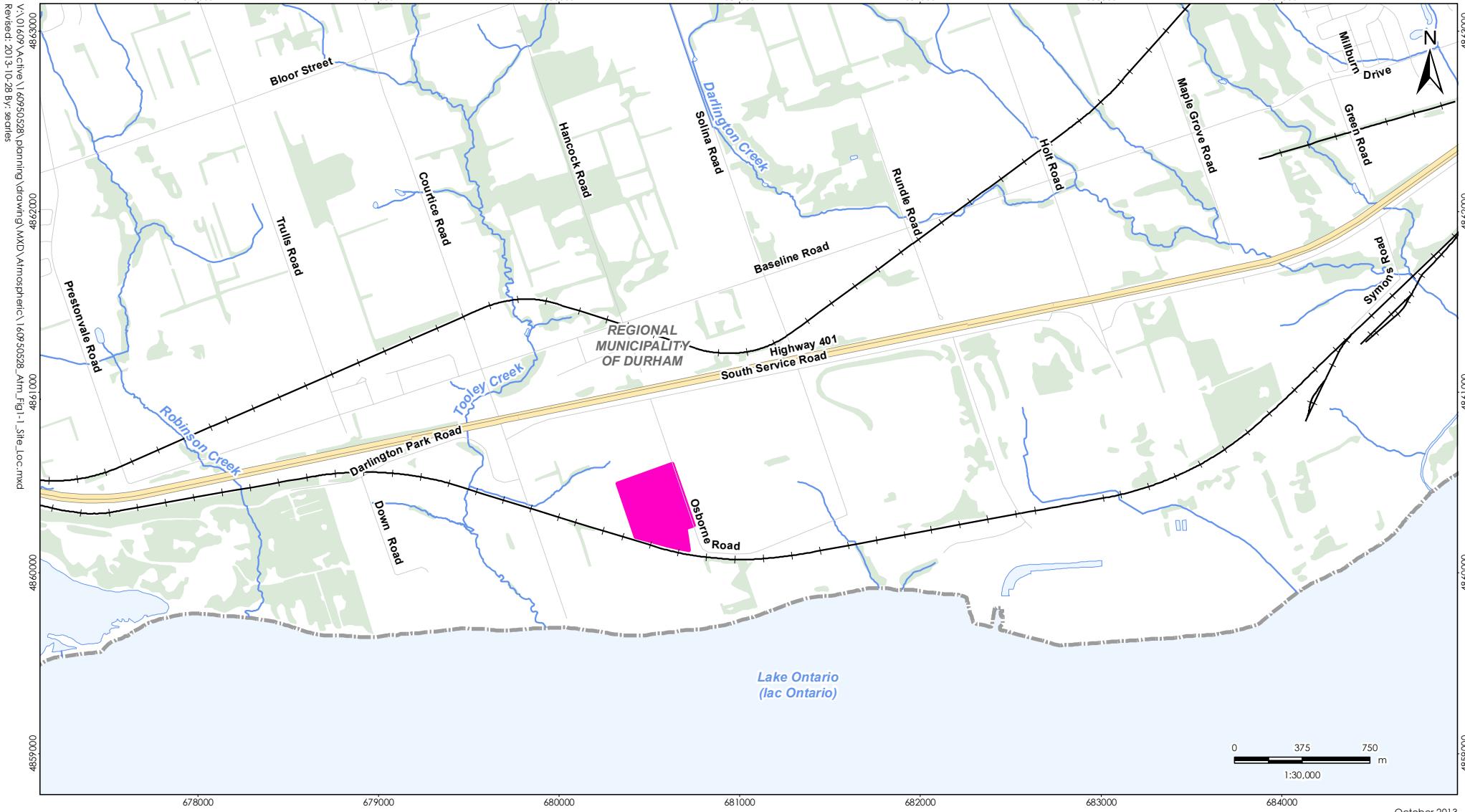
The selection of sites for the monitoring stations was done in consultation with the Ontario Ministry of Environment and Climate Change (MOECC) and Durham/York representatives based on the results of air quality modelling done in support of the environmental assessment for the project, the locations of nearby sensitive receptors, and general MOECC siting criteria. Two monitoring stations (one predominantly downwind and one predominantly upwind) were chosen for the ambient air quality program. The final locations of the monitoring stations were influenced by the availability of electrical power, accessibility of each location, and security. Details of the siting requirements are detailed in the Monitoring Plan.

The selected downwind location is sited northeast of the DYEC in the vicinity of residential receptors predominantly downwind of the DYEC in this direction, and falls in the area where maximum annual concentrations are predicted to occur. The predominantly downwind Rundle Road Station, is located along Rundle Road, south of Baseline Road. Its location is shown in **Figure 1-2**. The monitoring station measures all the air contaminants listed in **Section 1.1** and meteorological data. This station is referred to as the Rundle Road Station.

The predominately upwind Courtice WPCP Station, is sited at the Courtice Water Pollution Control Plant (WPCP), located to the southwest of the DYEC in order to measure background air quality in the predominantly upwind direction. The location is presented in **Figure 1-2**. This monitoring station measures the air contaminants presented in **Section 1.1**, as well as meteorological data, with the exception of wind speed and wind direction, which are measured and provided by the Courtice Water Pollution Control Plant.

A third Fence Line Station, which will measure non-continuous parameters (metals and total particulate matter) will be installed prior to full operation of the DYEC. As per Section 1.2 of the Ambient Monitoring Plan (Stantec, 2012), the Fence Line station will collect non-continuous parameters beginning after the Facility's commissioning period is complete, and will run for a one year period.

Photographs of the Rundle Road and Courtice WPCP ambient air quality monitoring stations are shown in **Figure 1-3** and **Figure 1-4**, respectively.



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#### Notes

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.

#### Legend

- Durham York Energy Centre Site
- Railway
- Road
- Highway
- Watercourse
- Waterbody
- Wooded Area



#### Client/Project

The Region of Durham  
Durham York Energy Centre

#### Figure No.

1-1

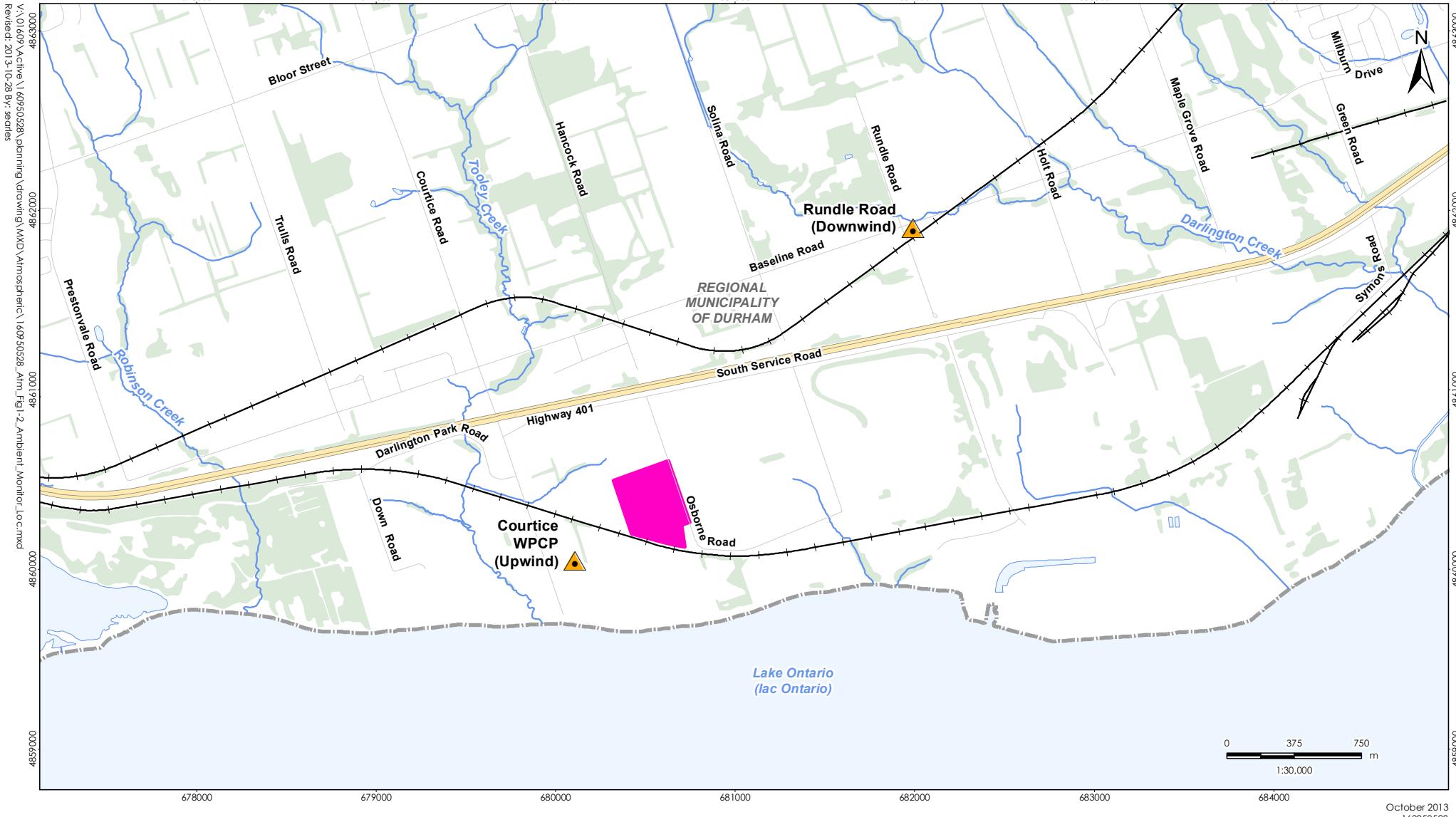
#### Title

Site Location Plan

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#### Legend

- ▲ Station Location
- Durham York Energy Centre Site
- Watercourse
- Waterbody
- Railway
- Road
- Highway
- Wooded Area

#### Client/Project

The Region of Durham  
Durham York Energy Centre

#### Figure No.

1-2

#### Title

**Locations of Ambient Monitoring Stations**

#### Notes

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.



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# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

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**Figure 1-3 View of Rundle Road Ambient Air Quality Monitoring Station**



**Figure 1-4 View of Courtice WPCP Ambient Air Quality Monitoring Station**





# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Key Components Assessed  
May 13, 2015

## 2.0 KEY COMPONENTS ASSESSED

### 2.1 METEOROLOGY

The following meteorological parameters are measured at the Rundle Road and Courtice WPCP monitoring stations.

**Table 2-1 Summary of Meteorological Parameters Measured at Each Station**

Courtice WPCP (Predominately Upwind) Ambient Air Quality Monitoring Station	Rundle Road (Predominately Downwind) Ambient Air Quality Monitoring Station
Wind Speed and Direction @ 20-m	Wind Speed and Direction @10-m
Ambient Temperature @ 2-m	Ambient Temperature @ 2-m
Relative Humidity	Relative Humidity
Rainfall	Rainfall
Barometric Pressure	

### 2.2 AIR QUALITY CONTAMINANTS OF CONCERN

The ambient air quality monitoring program for the DYEC includes the following contaminants specified in the Ambient Air Quality Monitoring Plan:

- Nitrogen Oxides (NO<sub>x</sub>);
- Sulphur Dioxide (SO<sub>2</sub>);
- Particulate Matter smaller than 2.5 microns (PM<sub>2.5</sub>);
- Total Suspended Particulate (TSP) matter and metals;
- Polycyclic Aromatic Hydrocarbons (PAHs); and,
- Dioxins and Furans (D/Fs).

Operation of the non-continuous monitors was temporarily discontinued on June 28, 2014 as per Section 1.2 of the Ambient Monitoring Plan (Stantec, 2012), which calls for collection of continuous parameters only during commissioning of the Facility. When the EFW facility is fully operational, monitoring of non-continuous monitors will resume (as specified in the Ambient Monitoring Plan). Therefore, the following contaminants were not measured this quarter:

- Total Suspended Particulate (TSP) matter and metals,
- Polycyclic Aromatic Hydrocarbons (PAHs), and
- Dioxins and Furans (D/Fs).

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Key Components Assessed  
May 13, 2015

## 2.3 AIR QUALITY CRITERIA

Two sets of standards were used for comparison to the air quality data as specified in the Ambient Air Monitoring Plan. The first set of standards is the limits reported in O.Reg.419/05 (Schedules 3 and 6). These are compliance based standards used throughout the province of Ontario. However, not all chemicals have O.Reg.419/05 criteria, or in some instances updated health-based standards were used in the human health risk assessment (HHRA) conducted in support of the Environmental Assessment (July 31, 2009) - December 10, 2009). These health-based values, which were reported in Table 7-2 (Summary of Inhalation TRVs and Inhalation Benchmarks Selected for CACs) and Table 7-3 (Inhalation TRVs and Inhalation Benchmarks for Selected COPCs) of the HHRA (Stantec, 2009) were used as the second set of standards.

The previously applicable Canada-Wide Standard (CWS) for PM<sub>2.5</sub> of 30 µg/m<sup>3</sup> (98<sup>th</sup> percentile averaged over 3 consecutive years) has been superseded by the new Canadian Ambient Air Quality Standard (CAAQS) of 28 µg/m<sup>3</sup> (98<sup>th</sup> percentile averaged over 3 consecutive years) as noted in **Table 2-2**. The proposed CAAQS objective for 2020 is 27 µg/m<sup>3</sup>.

A summary of the relevant air quality criteria for the contaminants monitored in Q1 2015 is presented in **Table 2-2**.

**Table 2-2 Summary of Air Quality Criteria for CACs**

Contaminant	CAS	O. Reg 419/05 – Schedule 3/AAQC			HHRA Health-Based Standards		
		1-Hour (µg/m <sup>3</sup> )	24-Hour (µg/m <sup>3</sup> )	Other time Period (µg/m <sup>3</sup> )	1-Hour (µg/m <sup>3</sup> )	24-Hour (µg/m <sup>3</sup> )	Annual (µg/m <sup>3</sup> )
Sulphur dioxide	7446095	690	275		690	275	29
Nitrogen oxides <sup>A</sup>	10102-44-0	400	200		400	200	60

Contaminant	CAS	Canadian Ambient Air Quality Standards (CAAQS)			HHRA Health-Based Standards		
		1-Hour (µg/m <sup>3</sup> )	24-Hour (µg/m <sup>3</sup> )	Other time Period (µg/m <sup>3</sup> )	1-Hour (µg/m <sup>3</sup> )	24-Hour (µg/m <sup>3</sup> )	Other time Period (µg/m <sup>3</sup> )
PM <sub>2.5</sub>	N/A		28 <sup>B</sup>			30 <sup>C</sup>	

Notes:

- A. The Schedule 3 standards for NO<sub>x</sub> are based on health effects of NO<sub>2</sub>, as NO<sub>2</sub> has adverse health effects at much lower concentrations than NO. Therefore the standard was compared to NO<sub>2</sub> in this report. However, as per the current April 2012 version of O. Reg. 419 Summary of Standards and Guidelines, the standard was also compared to the monitored NO<sub>x</sub>.
- B. Canadian Ambient Air Quality Standard for Respirable Particulate Matter, effective by 2015. The Respirable Particulate Matter Objective is referenced to the 98<sup>th</sup> percentile over 3 consecutive years.
- C. HHRA Health-Based Standard for PM<sub>2.5</sub> was selected referencing CCME (2006).

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Instrumentation Summary

May 13, 2015

## 3.0 INSTRUMENTATION SUMMARY

### 3.1 INSTRUMENTATION

The measurement program at the monitoring sites includes both continuous and non-continuous monitors to sample air contaminant concentrations. The monitors were set up in April 2013, and monitoring started in May 2013.

Monitoring for respirable particulate matter (PM<sub>2.5</sub>), nitrogen oxides (NO<sub>x</sub>) and sulphur dioxide (SO<sub>2</sub>) are conducted on a continuous basis. A summary of the continuous monitors and a brief description of their principle of operation are provided in **Table 3-1** below.

**Table 3-1      Summary of Continuous Ambient Air Quality Monitors**

Contaminant	Monitor	Principle of Operation	Range	Time Interval
PM <sub>2.5</sub>	Thermo Sharp 5030 Synchronized Hybrid Ambient Real-time Particulate Monitor	Light Scattering Photometry / Beta Attenuation - Consists of a carbon14 source, detector and light scattering Nephelometer in a rack-mountable enclosure. The Thermo Sharp utilizes a continuous (non-step wise) hybrid mass measurement and a combination of beta attenuation and light scattering technology. The unit's filter tape is automatically advanced based upon a user defined frequency or particulate loading.	0-10 mg/m <sup>3</sup>	1 minute
NO, NO <sub>2</sub> , NO <sub>x</sub>	API Model 200E Chemiluminescence Analyzer	Chemiluminescence - Uses a chemiluminescence detection principle and microprocessor technology for ambient continuous emissions monitoring (CEM). Measurements are automatically compensated for temperature and pressure changes.	0 – 1000 ppb	1 second
SO <sub>2</sub>	Teledyne Monitor Labs Sulphur Dioxide Analyzer Model T100	Pulsed Fluorescence - SO <sub>2</sub> levels are measured based on the principle that SO <sub>2</sub> has a strong ultraviolet (UV) absorption at a wavelength between 200 and 240 nanometres (nm). The absorption of photons at these wavelengths results in the emission of fluorescence photons at a higher wavelength. The amount of fluorescence measured is directly proportional to the concentration of SO <sub>2</sub> .	0 – 1000 ppb	1 second

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Instrumentation Summary

May 13, 2015

Horizontal wind speed, wind direction, atmospheric temperature, relative humidity and rainfall are measured at the predominantly downwind Rundle Road Station. Atmospheric temperature, relative humidity, rainfall and barometric pressure are measured at the predominantly upwind Courtice WPCP Station. Wind speed and wind direction data at the predominantly upwind location are measured and provided by the Courtice Water Pollution Control Plant. The meteorological sensors at the Rundle Road Station are mounted on an external 10-m aluminum tower and are logged using a digital data acquisition system (DAS). The meteorological equipment includes the following:

**Table 3-2      Summary of Meteorological Equipment**

Parameter	Equipment
Wind Speed/Wind Direction	Met One Instruments Inc. Model 034B
Temperature	Campbell Scientific Model HMP60
Relative Humidity	Campbell Scientific Model HMP60
Atmospheric Pressure	Campbell Scientific Model CS106
Rainfall	Texas Electronic TE525M

A Campbell Scientific CRX1000 station data acquisition system is used to collect continuous instrument monitoring data and status codes from the ambient air quality monitors. Continuous station data is maintained in the data loggers, and data is viewed locally using a laptop and the relevant DAS software applications. Remote data transmission is accomplished by the periodic transmission of collected station air quality data via cellular phone.

## 3.2 INSTRUMENTATION ISSUES

A few minor instrumentation issues were encountered during this quarter. A summary of operational issues for each measurement parameter during the monitoring period is presented in **Table 3-3** and **Table 3-4**.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Instrumentation Summary

May 13, 2015

**Table 3-3      Summary of Instrument Issues at Courteau WPCP Station  
(Predominately Upwind)**

Parameter	Issues	Time Frame	Remedial Action
SO <sub>2</sub>	None		
NOx	Sample flow warning, rcell pressure warning	February 24, 2015	Cleared message. No issue with instrument.
PM <sub>2.5</sub>	None		
Other	Unable to connect remotely to data logger	February 4 – 5, 2015	Reset logger
	Power outage at the water treatment plant	31-Mar-15 (~ 3.5 hours)	Water treatment plant personnel restored power

**Table 3-4      Summary of Instrument Issues at Rundle Road Station (Predominately Downwind)**

Parameter	Issues	Time Frame	Remedial Action
SO <sub>2</sub>	None		
NOx	None		
PM <sub>2.5</sub>	None		
Other	Unable to connect remotely for data download.	February 4 – 5, 2015	Reset logger

## 3.3 DATA RECOVERY RATES

Data recovery rates for each continuous monitor at the two monitoring stations during Quarter 1 (January to March 2015) are presented in **Table 3-5** and **Table 3-6**.

**Table 3-5      Summary of Data Recovery Rates for the Courteau WPCP Station  
(Predominately Upwind) – January to March 2015**

Parameter	Valid Measurement Hours	Data Recovery Rate (%)
SO <sub>2</sub>	2149	99.5%
NOx	2149	99.5%
PM <sub>2.5</sub>	2149	99.5%
Temperature	2160	100.0%
Rainfall	2160	100.0%
Relative Humidity	2160	100.0%

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Instrumentation Summary

May 13, 2015

**Table 3-5      Summary of Data Recovery Rates for the Courtice WPCP Station  
(Predominately Upwind) – January to March 2015**

Parameter	Valid Measurement Hours	Data Recovery Rate (%)
Pressure	2160	100.0%
Wind Speed/Direction	2160	100.0%
TSP/Metals	N/A <sup>A</sup>	N/A <sup>A</sup>
PAHs	N/A <sup>A</sup>	N/A <sup>A</sup>
Dioxins and Furans	N/A <sup>A</sup>	N/A <sup>A</sup>

**Note:**

- A. Monitoring of these parameters was temporarily discontinued after June 28, 2014. Monitoring will resume when the Facility is fully operational.

**Table 3-6      Summary of Data Recovery Rates for the Rundle Road Station  
(Predominately Downwind) – January to March 2015**

Parameter	Valid Measurement Hours	Data Recovery Rate (%)
SO <sub>2</sub>	2156	99.8%
NOx	2156	99.8%
PM <sub>2.5</sub>	2156	99.8%
Temperature	2160	100.0%
Rainfall	2160	100.0%
Relative Humidity	2160	100.0%
Wind Speed/Direction	-	-
TSP/Metals	N/A <sup>A</sup>	N/A <sup>A</sup>
PAHs	N/A <sup>A</sup>	N/A <sup>A</sup>
Dioxins and Furans	N/A <sup>A</sup>	N/A <sup>A</sup>

**Note:**

- A. Monitoring of these parameters was temporarily discontinued after June 28, 2014. Monitoring will resume when the EFW Facility is fully operational.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
May 13, 2015

## 4.0 SUMMARY OF AMBIENT MEASUREMENTS

The following sections provide summaries of the validated data and the validation done on each parameter.

### 4.1 METEOROLOGICAL DATA

A summary of the maximum, minimum, arithmetic mean, and standard deviation of the hourly average meteorological parameters measured at the two monitoring stations for the January to March 2015 period are presented in **Table 4-1**.

**Table 4-1 Summary of Hourly Meteorological Measurements – January to March 2015**

Parameter	Courtice WPCP Station (Predominately Upwind)	Rundle Road Station (Predominately Downwind)	Units
Temperature	Max	9.7	C
	Min	-25.4	C
	Mean (January)	-6.9	C
	Mean (February)	-11.8	C
	Mean (March)	-1.9	C
	Mean (Period)	-6.7	C
	Standard Deviation	6.6	C
Rainfall	Max	3.3	mm
	Min	0.0	mm
	Mean (January)	0.02	mm
	Mean (February)	0.00	mm
	Mean (March)	0.02	mm
	Mean (Period)	0.02	mm
	Standard Deviation	0.13	mm
Relative Humidity	Max	97.3	%
	Min	23.4	%
	Mean (January)	65.8	%
	Mean (February)	65.8	%
	Mean (March)	65.0	%
	Mean (Period)	65.5	%
	Standard Deviation	14.9	%

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
May 13, 2015

**Table 4-1 Summary of Hourly Meteorological Measurements – January to March 2015**

Parameter	Courtice WPCP Station (Predominately Upwind)	Rundle Road Station (Predominately Downwind)	Units
Pressure <sup>A</sup>	Max	30.5	-
	Min	29.2	-
	Mean (January)	29.8	-
	Mean (February)	29.8	-
	Mean (March)	29.8	-
	Mean (Period)	29.8	-
	Standard Deviation	0.2	-
Wind Speed <sup>B</sup>	Max	49.5	km/hr
	Min	0.7	km/hr
	Mean (January)	15.9	km/hr
	Mean (February)	15.0	km/hr
	Mean (March)	13.8	km/hr
	Mean (Period)	14.9	km/hr
	Standard Deviation	7.5	km/hr

**Notes:**

- A. Pressure is not measured at the Rundle Road Station.
- B. Wind speed at Courtice WPCP Station measured at 20-m and at Rundle Road Station at 10-m.

At the Courtice WPCP Station (located near Lake Ontario), wind data were measured and provided by the Courtice Water Pollution Control Plant on a 20-m tower, while at the Rundle Road Station they are measured on a 10-m tower.

Wind roses showing the directionality and speed at each location are presented in **Figure 4-1**. The length of the radial barbs gives the total percent frequency of winds from the indicated direction, while portions of the barbs of different widths indicate the frequency associated with each wind speed category.

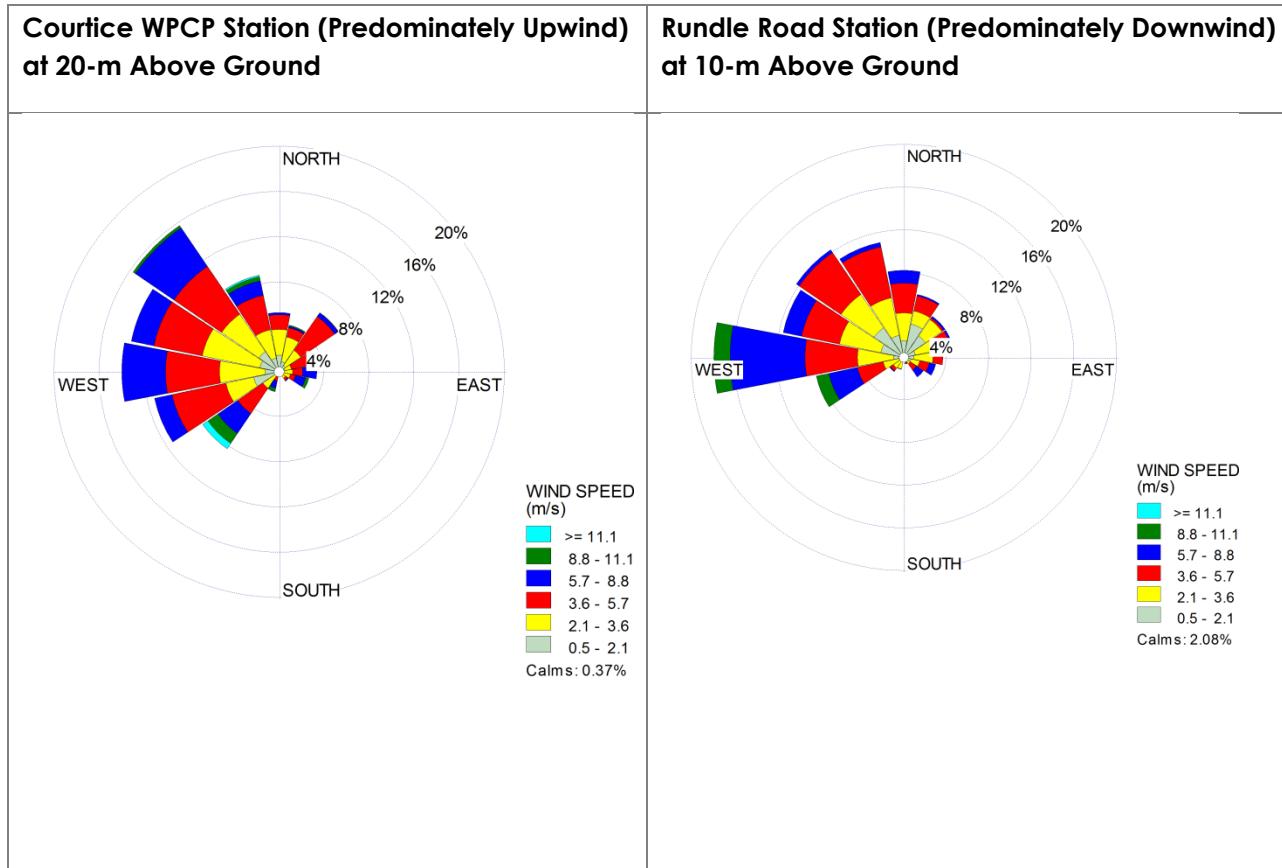
Winds over the three-month period at the Courtice WPCP Station occurred predominantly from southwesterly to northwesterly directions. Wind contribution from the south was low. Higher wind speeds occurred from southwesterly directions, and lower wind speeds from the southwest to northwesterly directions.

At the Rundle Road Station, the wind rose over the three-month period showed predominant winds occurring from westerly to north-northwesterly directions. Higher wind speeds are noted occurring from the west to west-southwesterly directions, with lower wind speeds from northwesterly to northeasterly directions.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
May 13, 2015

**Figure 4-1 Wind Roses for January to March 2015**



## 4.2 CAC AMBIENT AIR QUALITY MEASUREMENTS

A summary of the maximum, minimum, arithmetic mean and standard deviation of the CAC pollutant concentrations measured at each station are presented in **Table 4-2**. Also presented in this table are the number of exceedances (if any occurred), of the relevant Ontario ambient air quality criteria (AAQC) or health-based standard for each contaminant. All monitored contaminants were below their applicable criteria during the period between January to March 2015.

## QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements

May 13, 2015

Nitric oxide (NO) has no regulatory criteria as discussed in **Section 4.2.2** below. There are both hourly and daily AAQCs as well as Reg. 419 Schedule 3 criteria for NO<sub>x</sub> which are based on health effects of NO<sub>2</sub>. As specified in the MOECC's listing of AAQCs (MOECC, 2012a) the AAQC were compared to measured NO<sub>2</sub> concentrations in this report. However, as per the current April 2012 version of O. Reg. 419 Summary of Standards and Guidelines, the Schedule 3 criterion for NO<sub>x</sub> (MOECC, 2012b) was compared to the monitored NO<sub>x</sub> levels.

A comparison of the maximum measured data to their respective air quality criteria is presented graphically in **Figure 4-2**.

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Summary of Ambient Measurements  
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**Table 4-2 Summary of Ambient CAC Monitoring Data – January to March 2015**

Pollutant	Averaging Period	AAQC / Schedule 3 / HHRA Health-Based Standards			Courtice WPCP Station (Predominately Upwind)		Rundle Road Station (Predominately Downwind)	
		ppb	µg/m³		Concentration (ppbv)	Concentration (µg/m³)	Concentration (ppbv)	Concentration (µg/m³)
SO <sub>2</sub>	1	250	690	Maximum	19.6	60.2	18.4	53.0
				Minimum	0.0	0.0	0.0	0.0
				Mean (January)	0.8	2.4	0.7	2.1
				Mean (February)	1.0	3.0	0.6	1.8
				Mean (March)	0.9	2.6	0.8	2.4
				Mean (Period)	0.9	2.6	0.7	2.1
				Standard Deviation	1.3	3.9	0.9	2.8
				# of Exceedances	0	0	0	0
SO <sub>2</sub>	24	100	275	Maximum	3.4	10.5	3.5	10.0
				Minimum	0.0	0.0	0.0	0.0
				Mean (January)	0.8	2.3	0.7	2.1
				Mean (February)	1.0	3.0	0.6	1.8
				Mean (March)	0.9	2.6	0.9	2.5
				Mean (Period)	0.9	2.6	0.7	2.1
				Standard Deviation	0.7	2.0	0.6	1.7
				# of Exceedances	0	0	0	0

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Summary of Ambient Measurements  
May 13, 2015

**Table 4-2 Summary of Ambient CAC Monitoring Data – January to March 2015**

Pollutant	Averaging Period	AAQC / Schedule 3 / HHRA Health-Based Standards			Courtice WPCP Station (Predominately Upwind)		Rundle Road Station (Predominately Downwind)	
		ppb	µg/m <sup>3</sup>		Concentration (ppbv)	Concentration (µg/m <sup>3</sup> )	Concentration (ppbv)	Concentration (µg/m <sup>3</sup> )
PM <sub>2.5</sub>	24	N/A	30 <sup>A</sup>	Maximum	-	41.4	-	43.6
				Minimum	-	0.2	-	1.9
				Mean (January)	-	7.8	-	9.0
				Mean (February)	-	10.6	-	11.2
				Mean (March)	-	10.1	-	12.6
				Mean (Period)	-	9.5	-	10.9
				Standard Deviation	-	7.3	-	7.7
				# of Exceedances	-	N/A	-	N/A
NO <sub>2</sub>	1	200 <sup>B</sup>	400 <sup>B</sup>	Maximum	62.3	135.2	42.6	86.4
				Minimum	0.0	0.0	0.0	0.0
				Mean (January)	9.8	20.7	7.5	15.7
				Mean (February)	12.6	26.9	8.4	17.9
				Mean (March)	8.8	18.3	7.6	15.8
				Mean (Period)	10.3	21.8	7.8	16.4
				Standard Deviation	8.8	18.9	6.7	14.0
				# of Exceedances	0	0	0	0
	24	100 <sup>B</sup>	200 <sup>B</sup>	Maximum	25.9	55.2	22.6	45.9
				Minimum	0.7	1.5	0.0	0.0
				Mean (January)	9.7	20.5	7.4	15.6
				Mean (February)	12.5	26.8	8.3	17.7

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Summary of Ambient Measurements  
May 13, 2015

**Table 4-2 Summary of Ambient CAC Monitoring Data – January to March 2015**

Pollutant	Averaging Period	AAQC / Schedule 3 / HHRA Health-Based Standards			Courtice WPCP Station (Predominately Upwind)		Rundle Road Station (Predominately Downwind)	
		ppb	µg/m³		Concentration (ppbv)	Concentration (µg/m³)	Concentration (ppbv)	Concentration (µg/m³)
				Mean (March)	9.0	18.8	7.8	16.2
				Mean (Period)	10.3	21.8	7.8	16.4
				Standard Deviation	5.1	10.9	4.5	9.4
				# of Exceedances	0	0	0	0
NO <sub>C</sub>	1	NA	NA	Maximum	88.5	125.3	44.6	62.3
				Minimum	0.0	0.0	0.5	0.7
				Mean (January)	3.8	5.2	2.4	3.3
				Mean (February)	5.4	7.5	2.6	3.7
				Mean (March)	2.2	3.0	2.0	2.8
				Mean (Period)	3.7	5.2	2.4	3.2
				Standard Deviation	5.7	8.0	3.1	4.2
				# of Exceedances	N/A	N/A	N/A	N/A
	24	NA	NA	Maximum	18.9	26.3	8.1	11.3
				Minimum	0.1	0.1	0.7	1.0
				Mean (January)	3.7	5.1	2.4	3.3
				Mean (February)	5.3	7.5	2.6	3.6
				Mean (March)	2.3	3.1	2.1	2.8
				Mean (Period)	3.7	5.2	2.4	3.2
				Standard Deviation	2.9	4.1	1.3	1.7
				# of Exceedances	N/A	N/A	N/A	N/A

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements

May 13, 2015

**Table 4-2 Summary of Ambient CAC Monitoring Data – January to March 2015**

Pollutant	Averaging Period	AAQC / Schedule 3 / HHRA Health-Based Standards			Courtice WPCP Station (Predominately Upwind)		Rundle Road Station (Predominately Downwind)	
		ppb	µg/m³		Concentration (ppbv)	Concentration (µg/m³)	Concentration (ppbv)	Concentration (µg/m³)
NOx	1	200 <sup>B</sup>	400 <sup>B</sup>	Maximum	148.5	322.2	77.5	166.2
				Minimum	0.0	0.0	0.0	0.0
				Mean (January)	11.5	24.3	9.0	18.9
				Mean (February)	15.8	33.8	10.1	21.5
				Mean (March)	10.6	22.0	8.7	18.0
				Mean (Period)	12.5	26.5	9.2	19.4
				Standard Deviation	13.3	28.4	8.5	17.8
				# of Exceedances	0	0	0	0
NOx	24	100 <sup>B</sup>	200 <sup>B</sup>	Maximum	42.6	91.0	28.0	58.3
				Minimum	0.8	1.5	0.0	0.0
				Mean (January)	11.4	24.0	8.9	18.7
				Mean (February)	15.7	33.5	10.0	21.3
				Mean (March)	10.8	22.5	8.9	18.5
				Mean (Period)	12.5	26.5	9.3	19.4
				Standard Deviation	7.4	15.9	5.4	11.4
				# of Exceedances	0	0	0	0

**Note:**

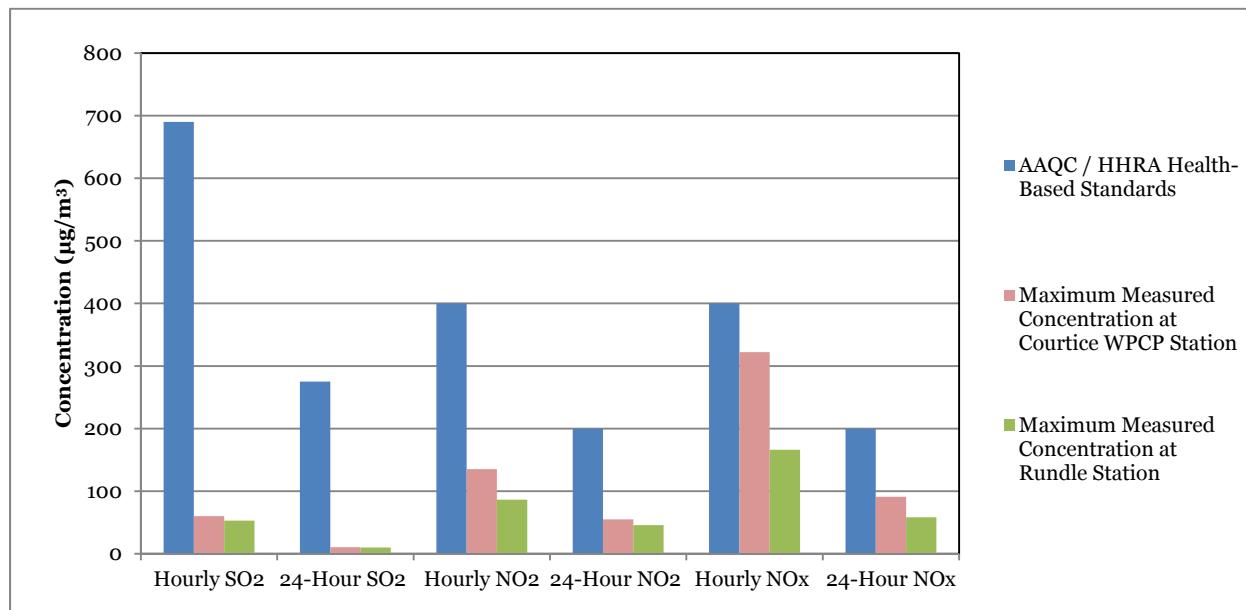
- A. Canadian Ambient Air Quality Standard for Respirable Particulate Matter. The Respirable Particulate Matter Objective is referenced to the 98th percentile over 3 consecutive years.
- B. As per current version (April 2012) of Reg 419 Summary of Standards and Guidelines, the air standard for NOx is compared to a monitored NOx concentration, although the Reg419 Schedule 3 standard for NOx is based on health effects of NO<sub>2</sub>.
- C. NO has no regulatory criteria.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements

May 13, 2015

**Figure 4-2 Comparison of NO<sub>2</sub> / NO<sub>x</sub> and SO<sub>2</sub> Ambient Air Quality Monitoring Data to Applicable Criteria**



Detailed discussion for each measured contaminant is presented in the following sections.

## 4.2.1 Sulphur Dioxide (SO<sub>2</sub>)

Data summaries are presented in **Appendix A** for sulphur dioxide for each station and month as well as time history plots of the hourly and 24-hour average SO<sub>2</sub> concentrations. For the hourly and 24-hour averages, the Ontario AAQCs of  $690 \mu\text{g}/\text{m}^3$  and  $275 \mu\text{g}/\text{m}^3$  are shown as blue lines on each plot. As shown in these figures, measured ambient SO<sub>2</sub> concentrations at both stations were well below the criteria.

The maximum hourly and 24-hour average concentrations measured at the Courtice WPCP Station during January to March 2015 were  $60.2$  and  $10.5 \mu\text{g}/\text{m}^3$  respectively, which are  $9\%$  and  $4\%$  of the applicable 1-hour and 24-hour ambient air quality criteria.

The maximum hourly and 24-hour average concentrations measured at the Rundle Road Station during this quarter were  $53.0$  and  $10.0 \mu\text{g}/\text{m}^3$  respectively, which are  $7.7\%$  and  $3.6\%$  of the applicable 1-hour and 24-hour ambient air quality criteria.

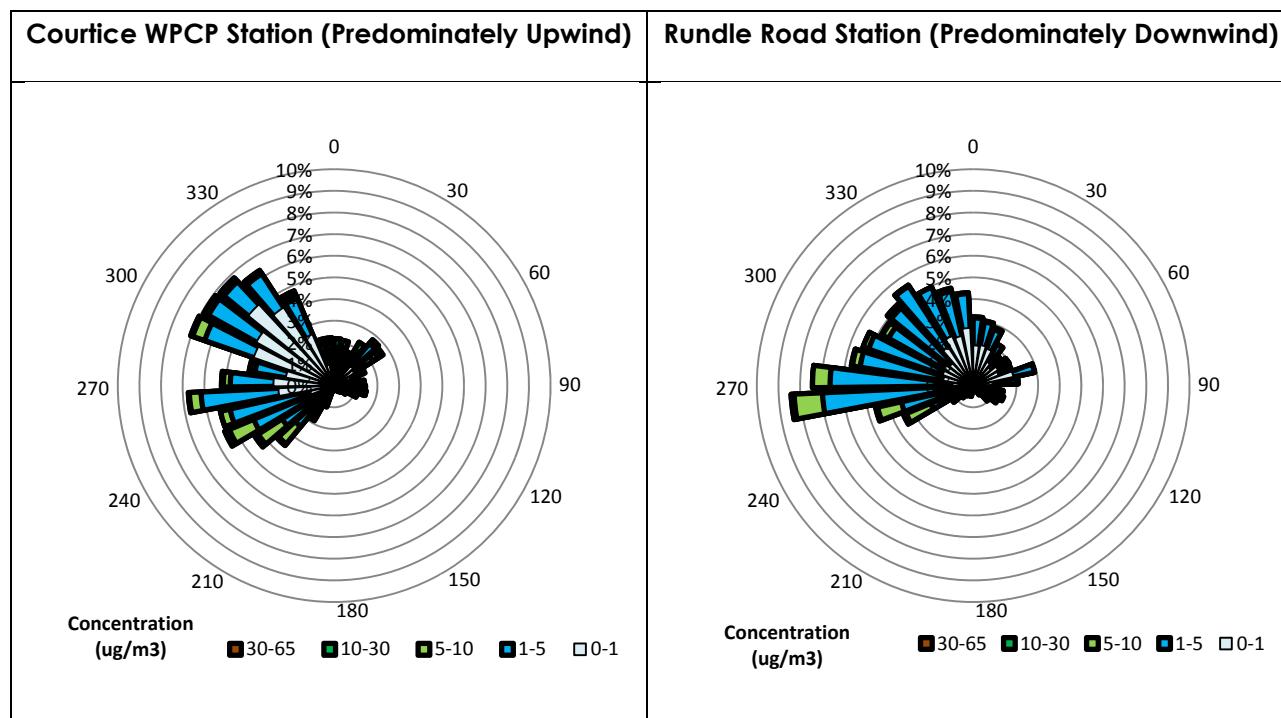
Pollution roses of hourly average SO<sub>2</sub> concentrations measured at the Courtice WPCP Station and Rundle Road Station are presented in **Figure 4-3**. The pollution rose plots present measured hourly average contaminant concentrations versus measured wind direction (over  $10^\circ$  wind sectors).

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
May 13, 2015

For the Courtice WPCP Station, higher hourly concentrations were measured when winds were blowing from the southeast and west-northwest. For the Rundle Road Station, the maximum measured hourly concentration occurred for westerly winds.

**Figure 4-3 Pollution Roses of Measured Hourly Average SO<sub>2</sub> Concentrations – January to March 2015**



## 4.2.2 Nitrogen Dioxide (NO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>) are almost entirely made up of nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>). Together, they are often referred to as NO<sub>x</sub>. Most NO<sub>2</sub> in the atmosphere is formed by the oxidation of NO, which is emitted directly by combustion processes, particularly those at high temperature and pressure. Exposure to both NO and NO<sub>2</sub> can result in adverse health effects to an exposed population. NO<sub>2</sub> is the regulated form of NO<sub>x</sub>. Similar to other jurisdictions (e.g., Alberta Environment, World Health Organization), the O. Reg. 419/05 Schedule 3 standards for NO<sub>x</sub> are based on health effects of NO<sub>2</sub>, as health effects are seen at much lower concentrations of NO<sub>2</sub> than NO. In this report, because NO<sub>2</sub> is the regulated form of NO<sub>x</sub>, the AAQC were compared to measured NO<sub>2</sub> concentrations (as per MOECC 2012a). However, as per the current April 2012 version of O. Reg. 419 Summary of Standards and Guidelines, the Schedule 3 NO<sub>x</sub> criteria were also compared to the monitored NO<sub>x</sub> concentrations (see **Section 4.2.3** below).

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

## Summary of Ambient Measurements

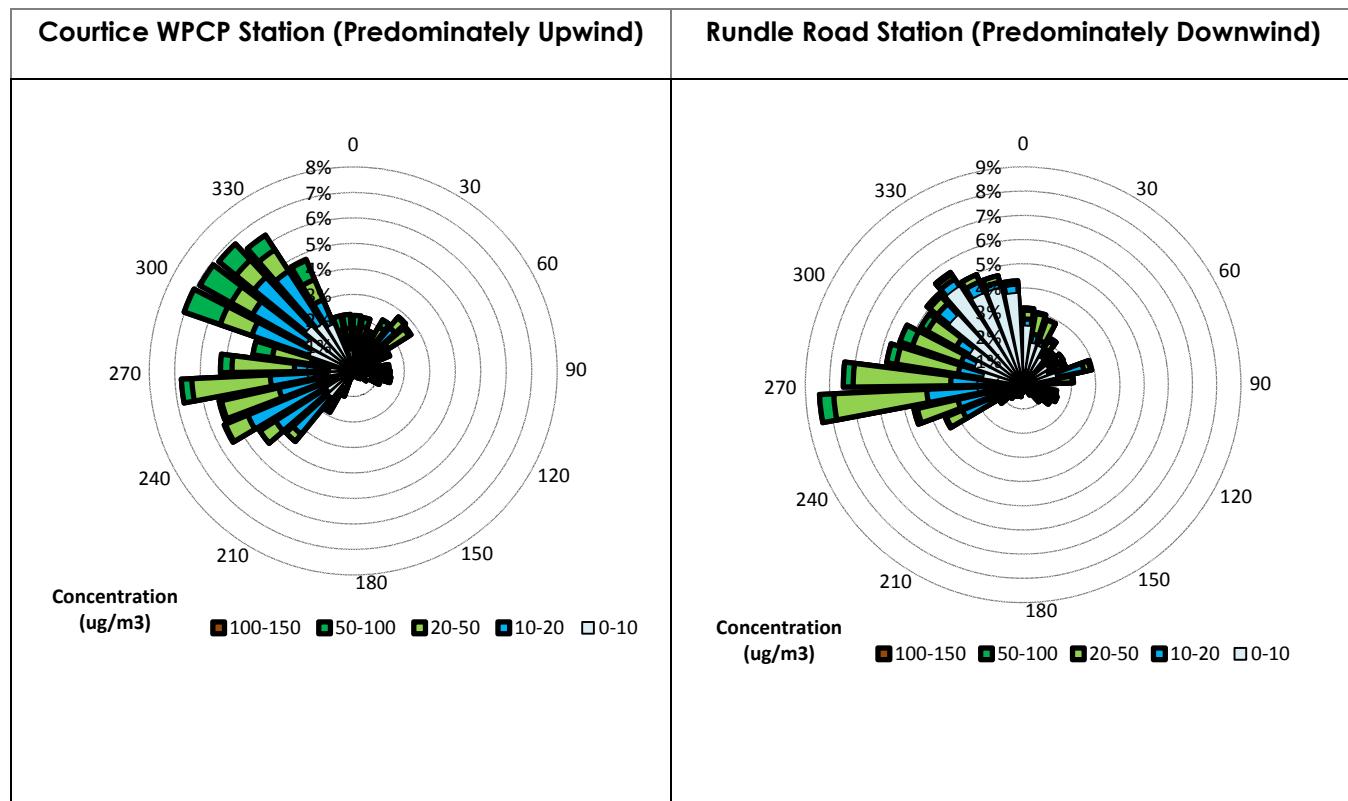
May 13, 2015

Data summaries are presented in **Appendix B** for nitrogen dioxide for each station and month as well as time history plots of the hourly and 24-hour average NO<sub>2</sub> concentrations. For the hourly and 24-hour averages, the Ontario AAQCs of 400 µg/m<sup>3</sup> and 200 µg/m<sup>3</sup> are shown as blue lines on each plot. As shown in these figures, measured ambient NO<sub>2</sub> concentrations at both stations were well below the criteria.

The maximum hourly and 24-hour average NO<sub>2</sub> concentrations measured at the Courtice WPCP Station during this quarter were 135.2 and 55.2 µg/m<sup>3</sup> respectively, which are 33.8% and 27.6% of the applicable 1-hour and 24-hour ambient air quality criteria. At the Rundle Road Station, the maximum measured hourly and 24-hour average concentrations were 86.4 and 45.9 µg/m<sup>3</sup>, which are 21.6% and 23.0% of the applicable 1-hour and 24-hour ambient air quality criteria.

Pollution roses of measured hourly average NO<sub>2</sub> concentrations are presented in **Figure 4-4**. The measured hourly average concentrations at the Courtice WPCP Station were higher for winds from westerly to northerly directions. For the Rundle Road Station, higher measured hourly average concentrations occurred for winds blowing from the west-northwest and west.

**Figure 4-4 Pollution Roses of Measured Hourly Average NO<sub>2</sub> Concentrations – January to March 2015**



# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
May 13, 2015

## 4.2.3 Nitrogen Oxides (NO<sub>x</sub>)

Data summaries are presented in **Appendix C** for nitrogen oxides for each station and month as well as time history plots of the hourly and 24-hour average NO<sub>x</sub> concentrations. For the hourly and 24-hour averages, the Ontario Schedule 3 criteria of 400 µg/m<sup>3</sup> and 200 µg/m<sup>3</sup> are shown as blue lines on each plot. As shown in these figures, the maximum measured ambient hourly and 24-hour average NO<sub>x</sub> concentrations at the Courtice WPCP Station were below the criteria during this quarter. The measured concentrations at the Rundle Road Station were also well below the criteria.

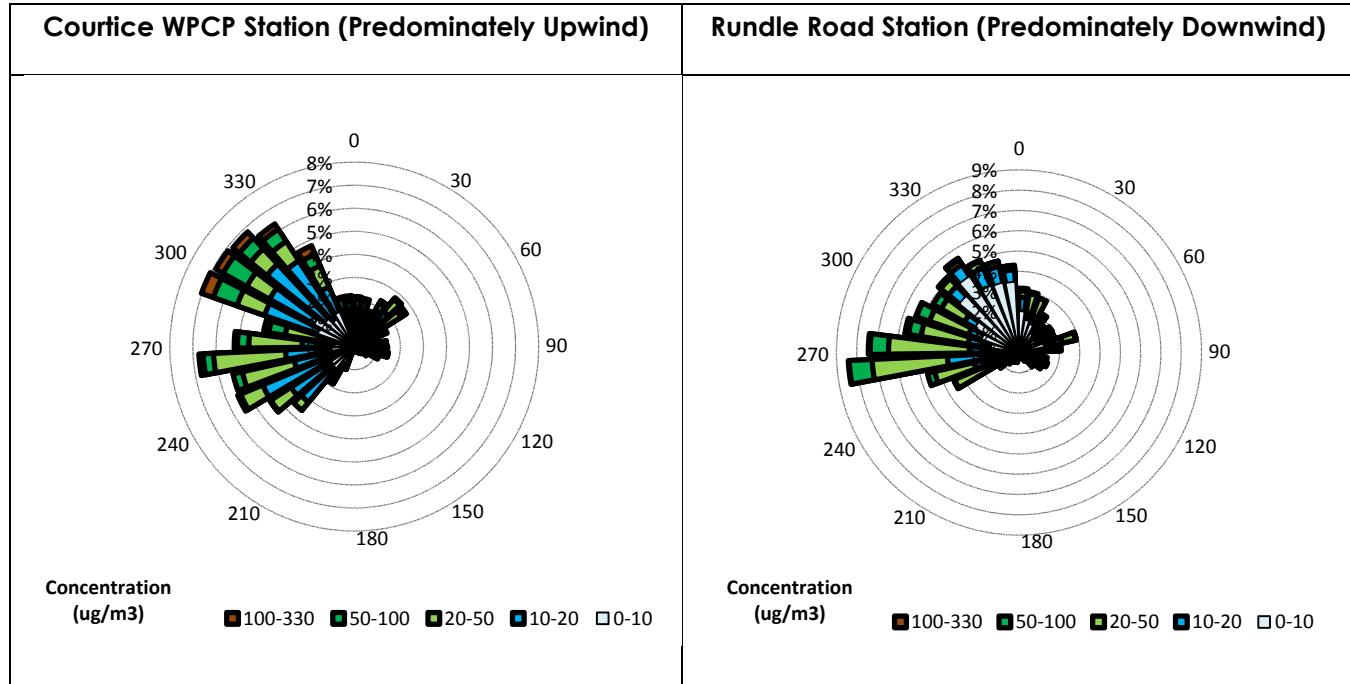
As shown in **Table 4-2**, the maximum hourly NO<sub>x</sub> concentration measured at the Courtice WPCP Station was 322.2 µg/m<sup>3</sup>, which is 80.6% of the 1-hour ambient criteria. The 24-hour average NO<sub>x</sub> concentration measured at this station was 91 µg/m<sup>3</sup>, which is 42.5% of the applicable 24-hour air quality criteria. When the maximum value at the Courtice monitor was measured, low wind speeds were occurring – this coupled with much higher NO<sub>x</sub>/NO levels relative to NO<sub>2</sub> suggests that the maximum NO<sub>x</sub> concentration in Q1 was due to a nearby combustion source. At the Rundle Road Station, the maximum hourly and 24-hour average concentrations measured during this quarter were 166.2 and 58.3 µg/m<sup>3</sup>, which are 41.5% and 29.2% of the applicable air quality criteria.

Pollution roses of measured hourly average NO<sub>x</sub> concentrations for the Courtice WPCP Station and the Rundle Road Station are presented in **Figure 4-5**. In Figure 4-5, higher measured hourly average NO<sub>x</sub> concentrations at the Courtice WPCP Station occurred for winds blowing from westerly to northerly directions. At the Rundle Road Station, higher measured hourly average concentrations occurred for westerly winds.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
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**Figure 4-5 Pollution Roses of Measured Hourly Average NO<sub>x</sub> Concentrations – January to March 2015**



## 4.2.4 Particulate Matter Smaller than 2.5 Microns (PM<sub>2.5</sub>)

Data summaries and time history plots of measured 24-hour average concentrations are presented in **Appendix D** for PM<sub>2.5</sub> for the Courtice WPCP and Rundle Road Stations.

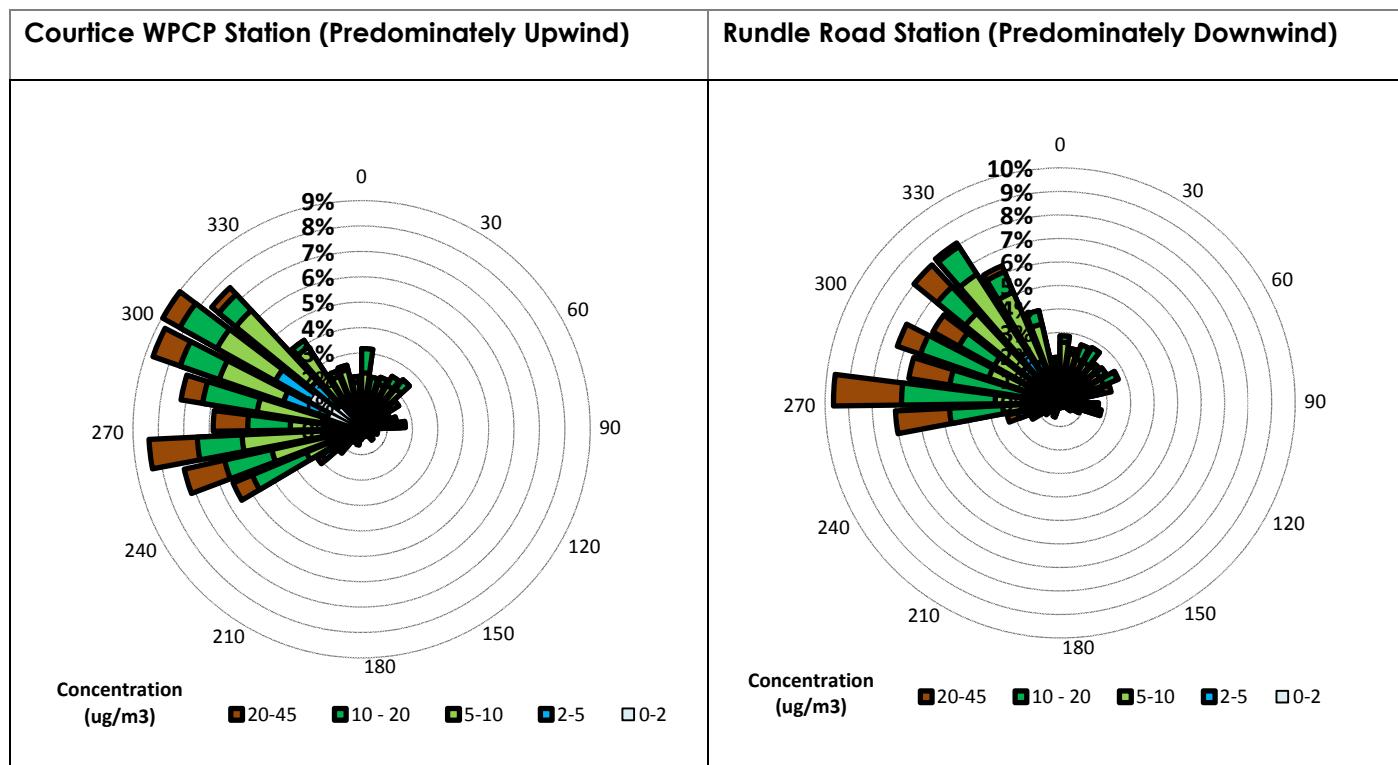
The maximum measured 24-hour average PM<sub>2.5</sub> concentrations at the Courtice WPCP and the Rundle Road Stations were 41.4  $\mu\text{g}/\text{m}^3$  and 43.6  $\mu\text{g}/\text{m}^3$  during this quarter. It should be noted that since an exceedance of the CAAQS for PM<sub>2.5</sub> requires the average of the 98<sup>th</sup> percentile levels in each of three consecutive years to be greater than 28  $\mu\text{g}/\text{m}^3$ , whereas the PM<sub>2.5</sub> measurement period at both stations in the report was three months, there is insufficient data in a quarter to determine with any certainty if exceedances of the CAAQS would occur. Discussion of PM<sub>2.5</sub> measurements with respect to the CAAQS will be provided in the 2015 annual report, at which time sufficient data will have been collected to make preliminary comparisons.

# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Summary of Ambient Measurements  
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Pollution roses showing the measured 24-hour average ambient PM<sub>2.5</sub> concentrations versus direction are shown in **Figure 4-6** for both monitoring stations. The maximum measured concentrations occurred for southwesterly to northwesterly winds for the Courtice WPCP Station. For the Rundle Road Station, higher measured 24-hour average concentrations occurred for westerly to northwesterly winds.

**Figure 4-6 Pollution Roses of Measured 24-Hour Average PM<sub>2.5</sub> Concentrations – January to March 2015**



# QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015

Conclusions  
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## 5.0 CONCLUSIONS

This quarterly report provides a summary of the ambient air quality data collected at the two monitoring stations located predominantly upwind and downwind in the vicinity of the DYEC for the period January to March 2015.

The following observations and conclusions were made from a review of the measured ambient air quality monitoring data:

1. Measured levels of NO<sub>2</sub>, SO<sub>2</sub> and PM<sub>2.5</sub> were below the applicable O. Reg. 419/05 criteria or human health risk assessment (HHRA) health-based standards presented in **Table 2-2** of this report;
2. Since the Canadian Ambient Air Quality Standard (CAAQS) for PM<sub>2.5</sub> is based on a 98th percentile level over 3 years, whereas the PM<sub>2.5</sub> measurement period at both stations for this quarterly report was three months, there is insufficient data collected to determine with any certainty if exceedances of the CAAQS would occur. Therefore no comparison of the measured PM<sub>2.5</sub> data during this quarter to the CAAQS was conducted for this report, as it would not be scientifically accurate or representative;
3. In summary, all monitored contaminants were below their applicable MOECC criteria for the monitoring data presented in this report. All measured levels of all monitored contaminants were below their applicable HHRA health-based standards.



# **QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

References  
May 13, 2015

## **6.0 REFERENCES**

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**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Appendix A SO<sub>2</sub> Data Summaries and Time History Plots  
May 13, 2015

**Appendix A SO<sub>2</sub> DATA SUMMARIES AND TIME HISTORY PLOTS**



		SO2 - COURTICE																													
		January 2015																													
		(µg/m³)																													
Hour																															
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>690	Days>275
1	0	1.0	1.9	1.7	1.3	1.0	1.0	1.3	1.1	1.1	1.4	1.3	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.3	1.8	2.3	1.9	1.5	24	2.3	1.0	1.3	0	0	
2	0	1.1	0.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	3.7	1.4	0.3	0.2	4.5	1.7	0.9	24	4.5	0.0	0.8	0	0
3	0	2.3	2.3	1.8	1.3	3.9	2.5	6.8	8.5	2.3	1.6	0.8	0.8	0.9	1.2	0.8	0.5	1.4	1.0	0.3	0.4	0.0	0.0	0.9	2.6	24	8.5	0.0	1.9	0	0
4	0	5.1	1.4	0.5	1.3	0.7	1.5	1.4	2.9	2.9	4.1	1.9	0.6	0.7	2.7	2.7	1.6	0.8	0.6	0.6	1.8	2.4	2.5	1.4	0.7	24	5.1	0.5	1.8	0	0
5	0	0.4	0.4	0.4	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.7	5.9	3.1	0.2	0.0	0.0	0.0	0.3	24	5.9	0.0	0.6	0	0
6	0	0.0	0.1	1.3	0.9	0.2	0.3	0.1	0.4	0.5	1.0	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.5	1.5	2.5	3.1	2.5	1.9	24	3.1	0.0	1.1	0	0	
7	0	1.7	0.9	1.0	0.3	0.4	0.4	0.2	0.2	0.2	0.5	0.7	0.6	0.4	0.4	0.7	0.6	0.0	0.3	0.2	0.0	0.5	0.0	0.0	0.6	24	1.7	0.0	0.5	0	0
8	0	0.0	0.0	0.0	0.1	0.5	0.0	0.4	0.5	0.5	0.4	0.6	0.7	1.6	1.0	1.3	1.1	0.6	0.9	0.9	2.5	1.8	1.2	2.8	3.6	24	3.6	0.0	1.0	0	0
9	0	4.3	3.3	3.2	4.1	4.4	4.5	4.6	4.0	2.6	1.7	1.4	1.5	0.6	0.2	0.5	0.4	0.3	0.8	0.3	0.5	0.4	0.7	0.4	24	4.6	0.2	1.9	0	0	
10	0	0.4	0.7	1.0	0.4	1.7	0.4	0.4	0.9	0.9	1.3	1.8	1.9	1.9	1.7	1.3	0.8	0.8	0.8	0.6	1.0	1.5	2.2	1.7	1.1	24	2.2	0.4	1.1	0	0
11	0	0.8	0.8	1.1	1.1	1.2	1.8	1.9	2.1	3.0	6.9	7.3	5.6	5.7	7.9	6.3	7.2	7.1	6.6	7.6	9.9	8.0	9.6	6.2	24	9.9	0.8	5.1	0	0	
12	0	7.4	2.7	2.4	2.1	1.7	1.4	2.2	2.4	2.5	2.9	3.2	3.2	2.2	1.1	1.0	0.8	2.7	0.4	0.0	0.0	0.0	0.0	0.2	24	7.4	0.0	1.8	0	0	
13	0	0.1	0.0	2.1	0.9	1.2	2.4	3.4	2.6	3.2	3.1	33.7	59.0	60.2	13.0	8.1	5.7	7.4	0.9	5.6	5.1	18.3	15.6	1.2	0.0	24	60.2	0.0	10.5	0	0
14	0	0.0	0.0	0.0	0.8	3.6	0.7	0.0	0.5	1.1	2.0	4.4	5.5	2.5	1.9	2.2	2.4	1.7	3.3	5.8	3.3	0.5	1.3	1.3	24	5.8	0.0	2.0	0	0	
15	0	0.8	1.4	11.2	1.8	0.9	1.1	2.3	4.2	8.4	11.6	10.8	11.2	9.7	8.0	8.1	9.1	5.7	3.7	3.5	5.5	4.8	5.5	4.0	24	11.6	0.8	5.7	0	0	
16	0	4.5	4.5	4.0	2.9	1.6	0.8	0.5	1.4	3.4	1.7	0.8	0.5	0.7	1.6	1.4	0.7	0.4	0.2	0.6	1.0	1.1	1.1	1.7	24	4.5	0.2	1.6	0	0	
17	0	4.8	2.0	2.6	6.1	0.8	0.3	0.5	2.0	5.2	4.6	2.1	2.0	1.9	2.8	3.6	3.4	3.3	3.0	4.2	4.3	3.5	5.9	4.6	24	6.1	0.3	3.3	0	0	
18	0	4.8	4.3	5.8	6.4	4.9	4.1	3.6	2.5	3.1	1.1	2.3	1.7	1.1	0.8	0.6	1.3	1.3	1.0	0.8	0.6	0.4	0.4	0.3	24	6.4	0.3	2.2	0	0	
19	0	0.3	0.2	0.1	0.3	0.6	0.5	0.3	0.4	0.4	0.6	0.9	1.1	1.1	1.0	1.1	1.1	0.8	0.3	0.5	1.0	0.4	0.4	0.3	24	1.1	0.1	0.6	0	0	
20	0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.6	1.2	2.5	2.4	2.4	4.0	3.0	1.9	1.9	1.2	1.0	0.7	0.8	1.6	30	24	4.0	0.0	1.2	0	0
21	0	6.1	6.5	11.3	4.4	6.3	4.4	2.4	1.1	2.5	9.9	9.6	26.9	23.6	7.5	3.4	3.2	2.2	1.5	2.0	2.7	2.1	7.4	7.0	6.5	24	26.9	1.1	6.7	0	0
22	0	6.1	7.4	3.6	5.1	0.4	0.5	0.9	1.1	1.1	1.4	1.2	1.8	1.6	1.8	1.9	1.9	1.7	1.5	1.2	1.4	1.0	1.2	1.7	24	7.4	0.4	2.0	0	0	
23	0	1.5	1.3	1.4	1.1	1.1	1.1	1.2	2.6	3.2	3.1	2.9	C	2.6	2.4	1.8	1.8	1.9	1.3	1.4	2.5	1.6	2.8	4.2	23	4.2	1.1	2.1	0	0	
24	0	3.0	1.3	0.9	1.0	0.8	1.0	1.1	1.2	1.6	1.8	2.0	2.2	2.1	1.9	1.9	1.2	1.1	1.1	1.1	1.1	0.7	0.9	1.0	24	3.0	0.7	1.4	0	0	
25	0	0.8	0.5	0.4	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.6	2.2	1.1	1.6	1.7	3.3	1.6	0.6	2.1	3.6										

SO2 - COURTICE																														
February 2015																														
(µg/m³)																														
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300					
1	0.6	1.6	0.5	0.3	0.3	0.4	0.5	1.0	2.9	6.8	1.9	1.1	0.9	1.4	1.9	1.1	0.1	0.0	0.1	0.3	0.3	0.4	0.3	0.4	24	6.8	0.0	1.1	0	0
2	0.4	0.6	0.6	0.5	0.7	1.4	3.3	4.9	4.4	3.1	2.1	1.9	0.4	1.7	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24	4.9	0.0	1.1	0	0
3	0.3	1.0	0.4	0.8	1.1	0.8	0.5	0.8	2.3	2.9	2.6	1.9	2.0	3.4	2.8	3.7	3.7	3.7	4.2	3.2	3.0	3.0	2.5	2.2	24	4.2	0.3	2.2	0	0
4	1.2	1.8	6.1	4.1	5.8	10.5	10.4	6.5	5.7	8.8	8.2	7.0	5.6	4.2	4.6	3.1	2.3	1.3	0.6	0.6	0.4	0.3	0.3	0.3	24	10.5	0.3	4.2	0	0
5	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	1.9	1.2	4.2	24	4.2	0.0	0.5	0	0	
6	3.6	4.2	2.8	2.3	2.1	2.3	2.0	2.5	3.2	4.9	5.7	4.0	3.0	2.5	2.4	1.8	1.5	1.3	0.7	0.9	0.8	1.0	1.1	1.6	24	5.7	0.7	2.4	0	0
7	1.0	1.3	1.0	1.0	1.0	5.6	7.2	1.3	0.7	3.5	8.2	4.9	3.5	1.5	0.8	1.7	1.0	0.3	0.2	0.1	0.0	0.2	0.5	24	8.2	0.0	2.0	0	0	
8	0.2	0.1	0.4	0.3	0.5	0.6	0.4	0.6	1.8	1.5	2.1	2.2	2.4	2.0	3.0	2.7	1.6	3.5	2.7	1.3	2.5	1.4	1.4	1.2	24	3.5	0.1	1.5	0	0
9	1.5	4.0	4.4	6.5	10.9	10.4	9.7	8.5	9.5	12.4	12.6	11.0	5.3	3.2	8.0	7.6	10.6	5.9	2.7	4.1	6.0	0.9	0.4	0.2	24	12.6	0.2	6.5	0	0
10	0.7	0.0	3.7	0.9	0.0	0.0	0.0	0.0	0.0	1.2	30.6	12.3	3.9	2.4	2.4	2.8	1.1	0.5	1.3	1.7	1.2	1.8	1.8	24	30.6	0.0	3.0	0	0	
11	0.1	0.4	3.7	14.1	2.0	3.7	14.2	25.2	17.3	3.1	2.0	2.2	3.7	2.8	2.3	1.7	2.3	8.8	8.8	5.7	3.1	3.5	3.4	3.7	24	25.2	0.1	5.7	0	0
12	3.3	1.7	0.8	0.4	0.3	0.4	0.4	0.3	0.8	1.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	3.3	0.0	0.4	0	0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.5	1.7	1.8	2.4	5.2	1.9	2.9	3.2	1.9	3.9	6.1	24	6.1	0.0	1.4	0	0
14	4.1	4.9	5.1	5.5	4.4	3.8	3.1	2.8	2.3	1.9	1.3	0.9	1.0	0.6	0.4	0.2	0.1	0.0	2.1	5.5	1.7	0.5	0.4	0.3	24	5.5	0.0	2.2	0	0
15	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	24	0.6	0.0	0.0	0	0	
16	1.2	0.2	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	5.5	2.4	13.3	20.4	10.5	24	20.4	0.0	2.3	0	0
17	4.4	2.4	2.5	12.7	11.5	18.6	26.6	25.3	19.3	15.5	13.2	2.4	1.8	4.1	7.3	5.3	3.2	4.3	8.3	5.6	8.2	6.0	5.8	5.4	24	26.6	1.8	9.2	0	0
18	6.2	4.4	2.4	5.4	8.2	6.4	10.1	11.8	9.5	6.4	3.3	1.3	0.9	0.8	0.8	0.9	1.0	0.8	0.6	0.3	0.3	0.3	0.3	24	11.8	0.3	3.4	0	0	
19	0.1	0.2	0.0	0.3	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.4	2.1	16.2	5.5	0.2	0.0	0.1	0.0	3.9	24	16.2	0.0	1.3	0	0			
20	8.5	8.4	6.7	3.1	1.0	0.7	0.0	0.0	0.8	2.8	3.8	5.1	7.9	3.9	0.7	0.4	0.6	1.1	1.4	3.0	4.3	5.5	6.1	3.8	24	8.5	0.0	3.3	0	0
21	8.5	10.2	10.0	6.3	6.0	4.8	6.0	9.2	11.1	9.0	10.9	10.6	10.4	9.1	9.8	10.6	7.1	6.6	10.3	7.3	5.6	3.9	2.9	2.1	24	11.1	2.1	7.8	0	0
22	2.6	2.6	1.2	22.6	2.8	3.1	1.6	4.3	3.8	6.9	7.1	6.7	11.6	8.9	10.5	10.2	1.2	0.2	0.2	0.0	0.0	0.0	0.0	24	22.6	0.0	4.5	0	0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	1.3	0.0	0.2	0	0	
24	3.4	3.4	4.4	4.3	4.1	3.9	2.7	2.6	2.9	3.0	2.9	6.8	5.1	8.5	5.2	5.1	5.2	8.3	5.9	5.9	5.8	6.3	7.0	6.2	24	8.5	2.6	5.0	0	0
25	6.2	6.2	6.4	6.8	6.4	3.8	0.6	0.3	0.2	0.4	0.8	0.3	0.5	1.7	1.9	0.5	0.3	0.0	0.0	0.1	0.1	0.3	0.3	24	6.8	0.0	1.8	0	0	
26	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.0	17.7	14.1	12.4	4.8	4.2	1.6	1.2	1.0	1.7	2.2	1.9	0.5	0.1	0.0	0.4	24	17.7	0.0	3.2	0	0
27	3.3	13.6	14.3	10.0	9.5	7.7	5.0	3.1	1.5	0.5	0.4	C	0.0	0.5	1.0	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.5	23	14.3	0.0	3.2</td			

		SO2 - COURTICE																														
		March 2015																														
		(µg/m³)																														
Hour																																
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>690	Days>275	
1	0	1.4	2.5	1.9	2.8	6.8	3.6	4.2	2.8	2.8	5.9	7.0	8.0	7.3	7.9	13.3	13.5	12.3	14.3	17.2	17.2	14.6	11.6	7.8	8.4	24	17.2	1.4	8.1	0	0	
2	0	9.3	7.3	5.6	4.0	3.7	4.1	3.5	2.6	2.3	1.8	1.2	1.0	0.7	0.7	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.7	1.4	1.3	24	9.3	0.3	2.2	0	0	
3	0	1.1	0.8	0.8	0.7	1.0	2.0	5.4	4.6	6.4	3.2	1.8	1.9	1.0	2.7	2.0	1.8	2.3	1.9	1.7	2.5	2.9	3.3	5.0	4.0	24	6.4	0.7	2.5	0	0	
4	0	4.7	3.5	3.7	2.7	1.9	1.7	1.3	1.1	2.1	1.7	A	A	A	1.6	1.2	1.0	1.0	0.7	0.8	0.5	0.7	0.4	0.4	0.3	21	4.7	0.3	1.6	0	0	
5	0	0.3	0.3	0.3	0.4	0.4	0.3	0.6	2.0	3.3	3.3	6.0	3.3	1.9	1.0	0.8	2.5	1.0	0.9	0.8	1.2	2.6	2.8	2.5	2.3	24	6.0	0.3	1.7	0	0	
6	0	2.7	1.0	0.4	0.3	0.4	0.5	1.3	2.6	3.3	4.1	4.0	6.1	5.8	6.4	6.4	5.4	4.3	2.9	2.1	6.5	7.3	7.7	7.9	6.9	24	7.9	0.3	4.0	0	0	
7	0	9.6	9.1	5.4	5.6	6.1	7.2	7.9	7.6	8.3	8.4	7.7	7.0	8.7	8.5	7.3	6.5	7.5	7.0	6.6	6.2	5.1	5.1	6.7	6.2	24	9.6	5.1	7.1	0	0	
8	0	2.5	2.4	2.4	3.0	2.9	2.7	2.2	1.7	1.4	1.1	0.8	0.7	0.4	0.8	0.8	0.8	0.8	1.2	2.3	1.8	2.0	2.4	3.2	4.0	24	4.0	0.4	1.8	0	0	
9	0	3.3	2.9	2.5	2.3	2.0	1.8	1.8	2.0	1.7	1.6	1.7	2.1	3.2	3.4	2.3	3.4	2.6	2.3	2.9	1.8	2.3	2.0	1.7	2.0	24	3.4	1.6	2.3	0	0	
10	0	2.7	3.4	3.1	2.8	6.2	15.1	7.2	3.9	4.6	9.4	7.5	5.7	4.9	5.2	7.1	3.6	3.3	3.7	5.6	3.2	2.4	2.5	4.0	4.0	24	15.1	2.4	5.1	0	0	
11	0	3.1	3.3	2.7	3.2	2.7	2.3	3.4	3.0	2.5	2.0	2.0	10.6	7.3	1.1	0.9	0.8	0.9	0.8	0.5	0.5	0.5	0.8	0.6	0.3	0.5	24	10.6	0.3	2.3	0	0
12	0	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	2.2	1.2	0.3	0.8	2.1	1.2	3.8	0.1	0.1	0.0	0.0	0.1	4.2	4.6	2.1	1.9	24	4.6	0.0	1.1	0	0	
13	0	1.2	4.4	0.7	1.8	0.3	0.3	0.4	1.8	2.0	0.4	0.4	0.2	0.3	0.5	0.4	0.6	0.4	0.3	0.8	0.8	0.8	0.8	1.2	24	4.4	0.2	0.9	0	0		
14	0	1.0	1.0	1.0	1.2	1.2	1.5	1.6	1.7	1.4	1.6	1.4	1.4	1.5	1.7	1.6	1.4	1.1	0.9	0.9	1.1	1.0	0.9	0.9	24	1.7	0.9	1.3	0	0		
15	0	1.0	10.4	5.0	4.9	3.1	2.4	2.5	2.1	1.5	1.1	1.0	0.8	0.9	0.9	0.7	0.9	1.1	1.2	1.5	2.4	2.0	1.8	5.5	24	10.4	0.7	2.5	0	0		
16	0	1.2	1.1	1.3	2.7	1.8	2.0	1.8	1.8	1.7	1.2	0.9	1.1	1.1	1.3	1.2	3.2	4.8	4.0	3.1	1.8	1.4	2.4	2.6	3.4	24	4.8	0.9	2.0	0	0	
17	0	3.1	1.7	2.7	2.2	1.8	1.6	1.6	1.3	1.0	1.0	1.2	1.3	0.8	0.9	2.4	1.6	0.8	0.7	0.5	0.3	0.3	0.4	0.3	24	3.1	0.3	1.3	0	0		
18	0	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	24	0.5	0.2	0.3	0	0		
19	0	0.8	0.3	0.3	0.3	1.0	2.4	4.7	4.5	1.1	0.2	0.3	0.3	0.4	0.5	0.9	2.0	1.2	0.9	1.5	0.8	0.6	0.5	0.4	24	4.7	0.2	1.1	0	0		
20	0	0.3	0.3	0.9	3.6	1.3	1.4	1.1	1.0	1.0	1.4	1.1	1.3	1.0	1.6	1.8	1.8	1.5	1.3	1.7	1.3	2.4	1.5	3.3	3.7	24	3.7	0.3	1.6	0	0	
21	0	3.0	2.9	2.8	2.9	3.1	3.1	2.0	1.6	1.1	1.2	1.4	1.7	1.8	1.2	0.9	0.9	0.9	2.0	3.7	2.0	1.4	0.6	0.3	0.3	24	3.7	0.3	1.8	0	0	
22	0	0.5	0.8	1.0	3.4	4.3	3.5	1.0	1.3	0.4	1.0	0.3	0.5	0.4	0.6	0.9	1.2	1.6	0.8	0.4	0.3	0.3	0.3	0.2	24	4.3	0.2	1.1	0	0		
23	0	0.3	0.7	8.6	13.1	12.1	2.1	1.2	5.0	2.0	2.5	10.9	4.4	1.7	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	24	13.1	0.3	2.8	0	0		
24	0	1.0	2.6	16.6	0.4	0.4	0.3	0.5	12.0	10.3	0.3	0.4	0.8	0.5	0.5	0.2	0.2	0.2	0.2	0.1	0.2	15.9	17.5	27.3	5.4	24	27.3	0.1	4.7	0	0	
25	0	1.3	27.2	8.8	1.2	1.2	0.9	1.0	1.5	1.4	1.9	1.4	1.3	1.4																		

		SO2 - Rundle Road																													
		January 2015																													
		(µg/m³)																													
Hour																															
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>690	Days>275
1	0	1.8	2.9	2.4	2.6	2.0	1.9	2.0	1.9	1.9	2.4	2.1	1.9	2.1	2.0	1.9	1.9	2.2	2.0	2.2	2.6	2.9	2.9	2.1	24	2.9	1.8	2.2	0	0	
2	0	1.8	1.5	1.2	1.1	1.2	1.1	1.1	0.8	0.9	1.0	1.0	1.0	0.9	0.8	0.7	0.9	0.6	0.8	0.5	0.5	0.4	0.4	0.4	1.0	24	1.8	0.4	0.9	0	0
3	0	1.4	1.5	1.1	1.1	1.0	1.3	1.2	1.1	10.1	15.0	6.3	2.2	11.1	7.8	7.3	14.9	5.0	2.8	7.6	5.7	6.0	1.5	1.3	1.2	24	15.0	1.0	4.8	0	0
4	0	1.2	1.2	1.2	1.1	1.2	1.3	1.5	1.5	1.7	1.8	1.8	1.4	1.5	2.6	2.7	1.9	1.6	1.2	1.2	2.3	2.9	3.1	2.4	1.4	24	3.1	1.1	1.7	0	0
5	0	1.1	1.2	1.1	0.9	0.6	0.9	1.1	1.1	0.9	1.2	0.9	1.1	1.0	0.9	0.7	0.5	0.3	0.3	0.4	0.6	0.7	0.6	1.2	1.0	24	1.2	0.3	0.8	0	0
6	0	0.5	0.5	0.9	1.2	1.1	1.0	1.2	2.0	4.6	1.8	2.0	3.1	2.8	2.5	2.7	2.4	2.6	2.0	2.1	2.2	2.6	3.3	3.1	2.9	24	4.6	0.5	2.1	0	0
7	0	3.2	2.0	2.0	1.4	1.4	1.4	1.2	0.8	1.4	1.7	1.5	1.3	1.5	1.1	1.6	1.3	1.2	1.3	1.3	0.7	1.0	0.6	0.6	0.5	24	3.2	0.5	1.3	0	0
8	0	0.6	0.9	0.9	0.6	1.2	0.9	0.7	0.8	1.6	1.1	1.6	2.1	2.4	2.0	2.0	2.3	1.8	1.9	2.0	3.1	2.7	2.4	2.7	3.5	24	3.5	0.6	1.7	0	0
9	0	4.0	3.8	4.1	4.2	4.9	5.4	5.4	4.9	3.4	3.0	2.7	2.7	1.7	1.2	1.1	1.0	1.0	1.0	1.2	1.3	1.4	1.2	1.1	24	5.4	1.0	2.6	0	0	
10	0	1.1	1.2	1.2	2.0	1.2	1.7	1.6	2.0	1.6	2.1	2.9	2.8	2.7	3.0	2.4	2.0	1.8	1.3	1.6	1.7	2.1	2.7	2.0	2.0	24	3.0	1.1	2.0	0	0
11	0	1.9	2.0	2.1	1.9	2.3	2.7	2.7	2.8	3.0	5.8	7.6	6.8	7.1	7.9	7.5	8.3	8.4	8.1	8.8	11.5	9.6	11.9	9.5	8.3	24	11.9	1.9	6.2	0	0
12	0	8.5	3.6	3.1	2.7	2.6	2.3	2.6	3.0	3.3	3.7	3.8	4.0	3.0	2.0	2.0	2.3	3.7	1.4	1.0	0.5	0.4	0.4	0.3	0.3	24	8.5	0.3	2.5	0	0
13	0	0.4	0.3	0.3	0.4	0.4	0.5	0.3	0.3	0.5	0.5	0.4	0.5	0.7	0.4	0.5	0.7	0.4	0.3	0.2	0.1	0.2	0.4	0.3	0.3	24	0.7	0.1	0.4	0	0
14	0	0.3	0.4	0.3	0.4	0.6	0.4	0.4	0.4	1.0	1.2	1.8	4.4	2.9	3.1	3.1	3.3	2.5	1.6	0.8	0.6	1.1	0.8	0.5	0.4	24	4.4	0.3	1.3	0	0
15	0	0.6	0.6	0.5	0.8	1.1	1.2	2.3	4.2	7.1	9.6	10.4	9.9	8.6	7.9	8.7	9.3	7.2	5.0	4.8	5.7	5.5	5.6	4.7	4.6	24	10.4	0.5	5.2	0	0
16	0	4.3	4.7	4.7	3.9	2.7	2.2	2.0	2.6	3.9	2.6	2.0	1.6	1.6	2.3	2.4	1.9	1.3	1.0	1.2	1.1	1.3	1.4	2.3	1.6	24	4.7	1.0	2.4	0	0
17	0	1.2	0.8	0.4	0.0	0.6	0.4	0.5	0.5	0.6	2.0	2.8	2.7	2.5	20.7	21.7	53.0	38.7	14.2	18.5	8.1	5.0	3.6	2.9	24	53.0	0.0	8.5	0	0	
18	0	3.8	5.4	5.3	5.4	5.1	4.5	4.0	3.9	2.7	2.6	1.9	2.3	2.0	2.0	2.2	2.5	2.6	1.9	1.9	1.7	1.3	1.1	1.1	24	5.4	1.1	2.9	0	0	
19	0	1.1	1.0	1.1	1.2	1.1	1.1	1.1	1.2	1.4	1.8	1.9	2.0	1.8	1.8	1.8	1.6	1.1	1.4	1.5	1.1	1.3	1.1	1.3	24	2.0	0.3	1.3	0	0	
20	0	1.1	1.1	1.2	0.7	1.1	1.0	0.8	1.1	1.2	1.3	1.8	2.6	3.1	3.2	3.2	2.9	2.6	2.2	1.9	1.9	1.9	1.8	1.5	1.3	24	3.2	0.7	1.8	0	0
21	0	1.2	1.1	1.1	1.0	0.9	0.7	0.8	1.1	1.5	1.1	1.2	1.2	1.1	1.2	1.2	1.7	2.0	1.1	1.1	1.2	1.2	1.1	1.2	24	2.0	0.7	1.2	0	0	
22	0	1.3	1.1	0.9	1.0	0.8	0.8	0.6	0.8	1.0	1.4	1.5	2.0	2.2	2.3	2.7	2.5	2.3	1.9	1.9	1.8	1.7	2.4	1.9	1.6	24	2.7	0.6	1.6	0	0
23	0	1.7	1.9	1.7	1.4	1.8	1.8	1.9	2.6	3.2	3.7	3.6	3.2	3.7	3.5	C	5.3	2.2	1.9	1.6	1.3	2.1	1.6	2.2	23	5.3	1.3	2.5	0	0	
24	0	2.9	1.7	1.2	1.1	1.2	1.2	1.4	1.4	1.6	1.9	2.0	2.5	2.1	1.7	1.5	1.4	1.2	1.1	1.1	1.2	1.1	1.1	1.0	24	2.9	1.0	1.5	0	0	
25	0	0.8	0.6	0.5	0.5</td																										

SO2 - Rundle Road																									
February 2015																									
(µg/m³)																									
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
1	0.1	1.0	0.4	0.3	0.2	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
2	0.0	0.0	0.1	0.3	0.1	0.2	0.4	0.1	0.0	0.5	0.4	0.4	0.2	0.4	0.4	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.5	1.1	0.4	0.2	0.6	1.9	2.0	1.6	1.9	1.8	2.9	2.7	3.4	3.5	3.0	3.5	2.7	2.6	2.5	2.0	1.9	2.4
4	1.1	1.1	0.7	0.6	0.7	1.0	1.0	1.3	2.3	3.8	5.8	5.4	4.0	2.7	3.5	2.5	1.6	1.0	0.5	0.4	0.5	0.3	0.4	0.4	24
5	0.2	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.1
6	2.3	2.8	1.9	1.4	1.0	1.3	1.3	2.2	4.2	5.7	4.7	3.9	3.3	2.4	2.1	2.1	1.3	0.6	1.1	1.1	0.8	0.9	1.1	1.0	24
7	1.1	1.2	1.2	0.8	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.3	0.0	0.4	0.2	0.1	0.0	0.0	0.2	0.6	0.6	2.1
8	0.6	0.2	0.1	0.3	0.5	0.3	0.0	0.2	0.4	0.4	0.5	0.5	0.3	0.4	0.5	0.2	0.2	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	1.3	4.6	4.1	2.0	1.6	1.1	1.8	3.1	3.7	3.5	3.3	3.2	2.9	3.3	24
12	2.8	1.6	0.4	0.4	0.3	0.4	0.5	0.4	0.5	0.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	1.2	2.0	2.0	2.0	1.5	1.0	1.3	1.7	0.6	2.5	3.6	24
14	2.8	3.3	3.2	3.8	3.8	4.0	3.5	3.1	2.9	2.7	1.9	1.1	0.6	0.4	0.4	0.0	0.1	1.5	5.0	2.3	0.5	0.6	2.0	5.0	0.0
15	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
16	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.0	0.0	0.7	14.0	19.7	9.7	24
17	4.5	2.4	1.8	1.3	1.6	2.3	4.8	5.9	5.3	3.9	4.2	3.9	2.8	4.3	6.8	5.5	3.5	4.1	7.1	5.2	5.4	5.4	5.1	3.6	7.1
18	2.1	1.4	0.9	2.1	2.5	3.2	4.5	7.3	7.0	5.5	4.5	2.3	1.4	1.2	1.1	1.3	1.4	0.7	0.4	0.5	0.4	0.4	0.4	7.3	0.4
19	0.4	0.1	0.3	0.1	0.3	0.2	0.0	0.2	0.4	0.4	0.3	0.4	0.3	0.4	0.5	2.0	15.3	3.3	0.2	0.0	0.0	0.0	3.5	0.0	1.2
20	9.6	9.6	8.2	3.9	1.7	0.8	0.3	0.2	1.2	3.3	4.7	5.0	8.1	5.3	1.8	1.1	0.9	1.2	1.2	1.9	3.3	4.8	5.9	3.8	24
21	7.2	9.3	10.7	7.1	6.2	4.4	4.9	7.9	10.7	8.2	9.3	9.2	8.5	7.8	8.4	8.2	5.4	4.3	6.5	4.7	3.8	2.9	1.7	2.1	24
22	2.7	1.6	1.3	2.6	2.1	1.1	1.0	0.8	2.3	6.1	7.6	5.6	8.2	6.9	7.8	7.8	2.1	1.4	1.0	0.5	0.4	0.3	0.1	0.0	8.2
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.3	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24	
24	2.6	2.8	3.7	3.5	2.8	3.4	3.1	3.4	4.4	3.5	4.2	6.8	8.1	11.2	6.3	6.0	6.1	8.5	4.5	5.4	5.4	6.0	4.8	5.2	24
25	5.4	5.4	4.7	4.6	4.4	3.4	1.4	1.0	1.1	0.8	0.7	0.5	1.5	2.1	2.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.7	3.4	2.1	2.1	1.8	1.2	1.2	1.4	2.0	2.6	2.7	0.6	0.2	0.0	0.3	24
27	3.8	11.6	13.3	10.1	8.8	6.4	3.0	2.4	2.2	1.4	1.3	0.5	0.2	0.0	C	1.0	2.0	2.0	1.9	1.7	1.3	1.4	1.3	1.2	23
28	1.2	1.2	2.0	2.2	2.8	3.5	4.4	5.6	7.3	5.8	4.4	4.0	4.0	4.0	5.0	6.3	8.1	8.5	7.3	8.0	7.5	6.1	3.1	2.1	24
29																								0	
30																								0	
31																								0	
Count	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28.0	
Maximum	9.6	11.6	13.3	10.1	8.8	6.4	4.9	7.9	10.7	8.2	9.3	9.2	8.5	11.2	8.4	8.2	8.1	15.3	7						

		SO2 - Rundle Road																													
		March 2015																													
		(µg/m³)																													
Hour																															
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>690	Days>275
1	0	1.9	2.1	2.0	2.1	2.7	3.2	3.1	3.1	3.6	5.8	6.6	9.4	8.6	9.4	12.5	12.3	9.7	9.8	12.3	12.6	10.7	9.6	7.7	7.6	24	12.6	1.9	7.0	0	0
2	0	8.7	7.1	4.9	4.0	3.5	3.8	4.0	3.4	4.2	4.4	3.8	3.0	2.6	2.1	2.0	1.9	1.8	1.6	1.5	1.3	1.5	1.3	1.3	24	8.7	1.3	3.2	0	0	
3	0	1.4	1.3	1.2	1.2	1.3	1.4	1.5	1.9	2.8	3.8	3.5	3.5	2.5	2.9	2.4	3.0	3.0	2.6	2.5	2.6	2.7	3.0	3.6	3.4	24	3.8	1.2	2.5	0	0
4	0	2.9	2.7	2.6	2.6	2.2	2.0	2.1	2.0	2.7	2.9	3.2	3.0	2.8	A	1.8	2.7	2.4	2.1	2.0	1.9	1.9	2.0	1.6	1.5	23	3.2	1.5	2.3	0	0
5	0	1.4	1.3	1.3	1.2	1.4	1.2	1.3	2.8	3.6	4.0	3.9	3.3	2.7	2.3	2.0	2.0	2.1	2.0	1.8	2.3	3.8	3.7	3.6	1.9	24	4.0	1.2	2.4	0	0
6	0	1.9	1.7	1.3	1.4	1.3	1.2	1.2	2.2	3.8	4.6	5.1	6.2	6.7	8.8	8.3	7.2	5.6	4.8	4.1	7.0	8.1	7.9	8.3	7.9	24	8.8	1.2	4.9	0	0
7	0	9.8	9.0	5.9	6.2	6.1	6.6	6.9	7.1	8.4	9.3	10.0	8.9	9.5	10.2	8.1	7.2	6.6	6.0	5.4	4.1	3.4	2.1	2.0	2.2	24	10.2	2.0	6.7	0	0
8	0	2.6	2.8	2.2	2.4	3.2	2.7	2.8	2.2	2.5	2.8	2.3	2.1	1.9	1.8	1.9	1.8	1.9	2.2	2.8	2.7	2.6	3.1	3.4	24	3.4	1.8	2.5	0	0	
9	0	2.9	2.7	2.7	2.9	2.5	2.3	2.1	2.2	2.8	2.8	3.3	3.6	4.4	5.2	3.8	4.4	3.7	2.9	3.0	2.7	2.7	2.3	2.2	24	5.2	2.1	3.0	0	0	
10	0	2.8	2.7	2.4	1.8	1.9	1.5	1.7	2.0	2.6	4.8	6.8	8.6	4.7	5.2	6.0	4.7	4.0	3.9	2.9	2.4	2.1	3.2	4.0	4.0	24	8.6	1.5	3.6	0	0
11	0	3.8	3.5	2.9	2.6	2.6	3.2	2.6	2.5	2.7	3.2	3.5	9.0	12.3	3.1	2.6	2.6	1.9	1.8	1.9	2.0	1.6	1.7	24	12.3	1.6	3.2	0	0		
12	0	1.4	1.3	1.5	1.3	1.1	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.3	1.1	24	1.5	1.0	1.2	0	0		
13	0	1.1	1.0	1.1	1.2	1.1	1.1	1.2	1.7	2.9	2.2	1.8	1.8	2.0	1.9	1.8	1.8	1.9	1.7	1.8	1.9	1.5	1.7	1.9	24	2.9	1.0	1.7	0	0	
14	0	1.9	2.0	2.0	1.8	1.9	1.8	1.9	1.8	2.0	1.9	2.1	2.2	2.0	1.9	1.9	1.9	1.8	1.9	1.9	2.0	1.9	1.9	24	2.2	1.8	1.9	0	0		
15	0	2.0	7.3	5.3	5.1	3.5	2.6	2.6	2.7	2.0	1.9	2.0	2.0	2.1	2.0	1.9	1.9	2.4	2.3	2.6	2.0	1.9	2.1	24	7.3	1.9	2.7	0	0		
16	0	1.8	2.0	2.1	2.7	2.1	1.9	2.6	2.2	2.6	2.0	2.4	2.6	2.8	3.1	3.3	3.8	4.7	3.6	3.0	2.6	2.3	2.1	2.7	24	4.7	1.8	2.7	0	0	
17	0	2.7	3.2	2.6	2.0	1.8	1.8	1.9	1.9	2.0	1.8	1.8	1.8	1.8	1.8	3.0	2.6	1.8	2.0	1.6	1.5	1.6	1.7	24	3.2	1.5	2.0	0	0		
18	0	1.2	1.2	1.3	1.3	1.1	1.4	1.3	1.4	1.4	1.3	1.2	1.0	1.3	1.5	1.5	1.3	1.2	1.3	1.2	1.1	1.3	1.0	24	1.5	1.0	1.3	0	0		
19	0	1.2	1.2	1.1	1.2	1.4	1.1	1.2	1.1	1.4	1.2	1.2	1.4	1.7	1.9	1.9	3.1	1.9	1.8	1.3	1.2	1.2	1.2	24	3.1	1.1	1.4	0	0		
20	0	1.3	1.4	1.8	2.8	2.0	2.0	2.0	2.2	1.9	1.9	2.5	2.9	2.7	3.1	3.2	2.8	2.7	2.0	1.8	2.0	2.0	3.0	3.5	24	3.5	1.3	2.3	0	0	
21	0	3.2	3.0	3.0	2.8	3.4	3.3	2.8	2.5	2.0	2.2	2.3	2.4	2.5	2.4	2.1	1.9	2.1	2.9	3.7	2.7	2.3	1.9	1.6	1.5	24	3.7	1.5	2.5	0	0
22	0	1.3	1.7	1.9	1.4	1.3	1.1	1.2	1.3	1.2	1.2	1.3	1.3	1.7	1.9	1.9	2.1	2.5	1.9	1.3	1.3	1.1	1.3	24	2.5	1.1	1.5	0	0		
23	0	1.2	1.1	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.2	1.0	1.0	1.2	1.1	1.2	1.2	1.2	1.3	1.2	24	1.3	1.0	1.1	0	0		
24	0	1.2	1.3	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.9	1.8	1.7	1.6	1.5	1.5	1.5	1.4	1.2	1.2	1.0	1.1	24	1.9	1.0	1.3	0	0		
25	0	1.2	1.2	1.1	1.5	1.5	1.7	1.7	1.9	1.8	2.3	2.3	2.1	2.0	1.9	1.9	1.8	1.9	1.9	1.8	2.0	2.2	2.0	1.9	24	2.3	1.1	1.8	0	0	
26	0	1.9	1.8																												

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY  
CENTRE – JANUARY TO MARCH 2015**

Appendix B NO<sub>2</sub> Data Summaries and Time History Plots  
May 13, 2015

**Appendix B NO<sub>2</sub> DATA SUMMARIES AND TIME HISTORY PLOTS**









		NO <sub>2</sub> - Rundle Road																							
		January 2015																							
		(µg/m <sup>3</sup> )																							
Hour		0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Day																									
1	12.3	14.1	12.1	9.5	8.8	8.5	9.8	8.9	8.3	9.5	9.6	9.4	10.5	11.3	12.1	13.7	14.8	15.5	15.0	13.8	14.1	13.6	13.8	12.8	
2	13.0	16.4	14.6	13.9	4.7	4.4	7.6	6.7	9.7	8.2	6.2	4.5	3.6	3.9	4.1	4.1	4.8	5.2	5.7	14.5	13.2	10.3	13.1	12.2	
3	7.5	7.6	13.2	11.9	6.6	6.6	7.6	9.6	23.9	26.5	12.5	12.9	24.9	20.7	26.4	37.7	14.7	15.6	31.6	25.6	33.8	15.4	13.3	11.9	
4	10.8	17.9	15.7	9.4	9.3	9.8	10.7	10.2	10.9	11.4	14.5	16.1	12.7	30.9	17.4	13.8	15.9	9.0	6.2	5.8	5.5	6.9	6.6	3.7	
5	3.4	3.8	3.1	3.4	3.8	4.4	5.2	6.8	9.5	15.8	6.9	5.7	6.8	5.7	6.5	6.8	16.8	16.2	16.1	18.3	21.5	27.0	32.7	36.2	
6	23.5	23.3	28.3	29.7	34.5	36.7	19.9	28.8	72.6	43.3	39.8	42.2	34.3	32.4	38.1	35.0	30.4	31.8	29.1	30.5	22.0	19.6	16.4	72.6	
7	20.6	13.6	16.2	10.5	3.8	3.8	4.0	4.8	5.6	5.1	5.0	4.5	5.6	4.3	4.5	4.0	4.8	3.7	4.2	5.4	6.4	9.4	10.2	9.0	
8	11.3	36.1	48.7	41.3	26.2	25.9	20.3	20.4	22.6	16.4	16.7	22.7	19.3	19.8	20.3	19.0	15.0	12.5	11.0	13.8	12.9	16.6	11.2	14.4	
9	12.0	15.0	19.0	18.0	17.1	18.5	28.0	29.7	29.2	23.6	20.0	20.3	7.1	5.8	5.7	5.9	10.8	16.0	13.8	18.4	21.2	22.2	22.5	17.5	
10	13.3	13.9	13.0	18.8	15.7	9.2	14.9	16.6	15.2	13.7	14.1	12.1	13.6	13.4	11.8	12.1	13.3	16.6	18.0	19.0	19.1	20.4	21.7	29.0	
11	31.5	25.9	26.4	27.7	27.9	24.5	26.9	28.2	32.8	26.2	16.9	17.1	17.9	13.7	15.8	16.8	17.1	16.2	16.1	17.9	18.9	20.3	20.8	18.4	
12	21.6	21.6	31.4	30.1	36.1	47.4	41.5	45.6	47.2	51.9	45.8	41.7	32.7	14.2	9.8	8.5	10.4	6.0	5.3	5.1	4.5	4.2	3.9	3.7	51.9
13	3.5	3.6	3.6	3.8	3.8	4.0	4.4	10.0	14.1	12.3	8.1	7.3	11.3	12.2	17.9	19.4	21.7	30.3	27.1	28.9	12.1	11.0	12.1	11.1	
14	10.6	17.7	9.4	8.3	15.9	12.1	15.1	24.0	25.4	18.5	19.5	21.8	15.9	23.8	24.1	26.7	29.2	49.4	39.6	37.0	31.1	26.0	25.2	17.5	
15	21.6	17.3	15.5	36.9	59.7	48.8	66.5	80.7	71.6	50.1	46.8	44.4	31.7	34.3	32.5	28.5	18.2	16.8	17.7	19.6	19.7	25.2	26.9	32.3	
16	35.7	33.5	37.1	40.0	26.3	8.6	7.0	8.9	9.4	8.8	6.6	6.1	4.2	8.7	3.9	3.9	4.9	5.8	8.7	10.1	14.0	15.7	8.8	6.6	
17	8.1	12.9	14.2	18.3	9.9	14.5	8.3	7.7	8.8	14.8	9.5	5.8	7.2	20.4	19.5	33.7	40.6	25.9	30.8	14.8	25.6	43.8	35.7	26.4	
18	19.4	13.4	12.5	9.8	9.7	9.2	9.4	14.1	10.5	12.8	11.6	10.0	11.5	12.2	17.3	12.6	13.7	15.2	12.9	18.8	29.8	10.8	6.7	5.7	
19	5.0	4.5	5.1	5.3	4.4	4.5	4.6	5.6	6.5	6.0	5.7	6.8	4.8	4.9	5.2	5.9	4.7	4.8	5.1	5.2	4.3	3.7	6.8	4.8	5.1
20	3.5	4.0	3.6	3.6	4.2	4.1	4.2	10.7	16.4	10.2	5.9	6.9	5.8	6.3	4.7	5.7	7.1	7.6	5.4	6.1	5.8	6.4	5.5	5.4	24
21	4.7	4.4	5.0	5.8	6.1	8.9	10.8	22.9	30.9	15.2	12.1	19.6	13.3	13.6	15.1	14.8	13.0	10.4	11.0	10.5	10.6	8.5	6.6	7.1	
22	6.0	6.0	4.9	4.5	5.2	5.5	4.8	12.0	16.6	13.5	8.4	19.3	27.8	20.5	12.5	7.6	7.9	13.1	14.5	16.8	30.5	46.8	37.6	26.1	
23	19.7	15.9	15.2	17.3	15.6	12.0	15.8	18.1	18.2	20.9	15.5	14.3	12.3	15.3	C	9.9	10.4	11.4	11.8	12.1	15.3	21.8	9.9	15.6	23
24	23.6	27.1	27.3	26.5	26.6	22.4	28.9	25.5	20.3	21.9	21.7	21.8	31.7	40.0	39.4	36.8	42.0	41.9	38.6	44.8	50.4	49.3	34.9	11.5	
25	7.3	6.2	5.6	4.5	4.3	3.9	3.9	4.1	3.8	3.5	3.6	3.3	3.5	3.4	3.6	3.6	4.0	4.2	4.3	4.2	4.4	5.5	7.3	3.3	4.3
26	5.1	12.1	5.2	15.1	6.4	4.6	5.3	6.7	8.4	6.0	10.9	15.2	5.9	6.4	7.7	5.0	6.0	6.0	10.9	4.4	11.6	6.4	5.6	8.2	15.2
27	5.5	4.9	5.4	5.6	5.3	5.4	6.5	8.3	9.1	7.1	5.0	5.3	4.8	4.3	4.6	4.1	7.5	7.7	6.0	5.5	5.1	4.5	4.2	3.6	9.1
28	3.8	4.2	5.4	10.3	4.2	4.9	7.9	17.1	9.6	6.9	7.7	6.7	4.9	6.8	12.0	14.2	25.0	55.0	66.9	60.5	52.4	46.5	46.5	27.8	24
29	22.4	20.6	19.3	16.8	18.0	18.7	14.9	15.6	60.4	16.5	23.6	22.2	31.1	24.1	21.8	27.8	31.3	25.7	28.0	41.2	36.6	23.3	20.4	14.7	
30	11.7	9.8	9.3	7.9	6.9	6.4	4.2	5.3																	

		NO <sub>2</sub> - Rundle Road																							
		February 2015																							
		(µg/m <sup>3</sup> )																							
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
1	26.2	25.1	8.5	6.4	6.1	6.0	5.9	5.1	4.4	3.8	4.7	6.4	4.0	4.2	6.3	4.2	4.2	4.4	4.8	4.2	4.2	12.7	4.6	4.1	
2	3.9	4.3	3.9	5.4	5.9	4.5	4.6	5.4	5.3	6.2	6.7	5.6	6.7	6.4	5.9	10.2	6.6	8.3	10.7	9.0	5.4	10.3	26.9	24	26.2
3	41.1	34.4	51.0	56.9	73.7	67.0	68.2	56.2	64.7	52.5	28.2	23.0	27.5	23.5	20.9	25.0	31.3	46.7	23.8	34.3	34.8	36.9	42.3	35.7	
4	35.1	36.2	40.7	53.8	38.9	45.8	62.0	66.7	60.3	55.5	61.3	57.6	48.0	42.7	50.5	36.9	28.2	16.2	8.9	7.0	5.8	5.1	4.6	24	66.7
5	5.1	5.1	4.8	4.7	6.1	14.9	21.9	11.9	12.3	9.6	9.6	6.2	6.6	4.7	5.7	7.3	7.0	11.4	17.2	17.8	22.9	39.9	67.0	55.7	
6	25.5	18.6	14.7	12.5	15.4	18.3	30.3	49.5	40.1	34.6	33.5	24.1	20.9	17.2	17.2	20.2	22.2	30.9	34.7	34.3	29.0	32.0	39.5	33.6	
7	23.9	30.3	25.9	25.3	29.4	21.5	16.1	12.7	20.4	18.8	16.7	12.9	10.4	14.4	14.5	11.4	13.8	16.1	12.7	8.2	7.5	16.0	14.5	5.8	
8	12.9	5.4	6.2	12.9	17.3	6.6	6.3	7.2	8.5	9.1	8.8	9.9	7.8	8.9	8.5	8.3	8.2	7.2	6.0	8.5	9.2	18.2	5.4	8.9	
9	4.8	4.9	5.0	5.0	5.8	5.3	6.2	8.1	10.2	10.1	9.4	10.5	10.0	8.3	8.2	9.5	9.0	9.1	7.1	8.1	8.7	7.9	6.0	6.3	
10	5.3	5.5	5.3	8.7	7.8	6.4	7.0	9.3	10.1	8.5	9.8	8.8	9.0	21.4	14.7	14.0	17.7	37.0	34.0	36.2	31.2	26.1	25.2	25.3	
11	21.7	19.0	19.6	19.6	17.5	14.6	27.6	34.8	29.3	20.8	24.1	34.0	26.4	17.5	24.5	29.4	33.9	22.4	26.8	29.7	55.2	68.0	57.9	60.9	
12	67.6	17.6	5.9	5.0	5.7	6.8	8.7	14.7	15.4	9.1	7.2	6.1	6.0	6.2	4.6	6.0	6.3	5.3	5.4	5.2	3.5	3.7	3.9	4.1	
13	3.7	3.9	3.8	3.7	4.3	6.0	7.9	23.2	12.6	8.9	7.2	10.2	10.2	15.3	22.8	30.7	45.3	62.3	67.3	15.3	14.4	11.4	12.4	20.5	
14	17.2	13.2	13.9	14.5	19.9	21.8	19.6	23.7	21.9	17.8	7.6	4.5	4.1	3.8	3.9	3.8	4.4	5.7	7.0	5.8	4.3	3.9	3.7	10.4	
15	3.6	3.7	3.5	3.6	3.8	3.5	3.7	3.5	3.6	3.4	3.4	3.3	3.4	3.3	3.1	3.4	3.6	4.4	3.8	3.6	3.7	3.5	3.1	4.4	
16	3.4	3.2	3.1	3.4	3.9	3.8	4.1	14.8	22.4	7.1	3.5	3.6	3.4	3.6	9.1	11.2	15.9	29.7	36.4	35.1	42.3	20.9	18.1	22.4	
17	22.0	21.2	25.0	24.3	16.3	16.4	14.1	16.4	19.2	15.0	15.2	12.5	10.2	22.3	22.7	19.2	19.0	27.0	28.6	22.1	19.1	35.6	43.9	50.0	
18	52.8	47.8	46.7	44.9	62.7	54.1	55.0	59.5	52.3	35.3	23.9	15.5	13.8	13.8	15.2	12.6	11.7	10.7	8.9	6.9	5.0	4.4	3.9	27.6	
19	4.1	5.4	6.7	6.5	5.8	5.8	4.9	7.1	9.0	6.8	5.4	4.6	4.6	4.3	4.5	4.9	5.7	5.7	6.6	6.6	5.2	5.3	6.2	6.0	
20	6.5	6.3	5.8	4.4	4.2	4.2	4.5	4.8	6.2	5.8	5.1	6.9	9.3	9.6	20.1	22.8	21.6	19.9	16.8	38.9	44.8	45.1	42.7	16.4	
21	18.2	22.4	21.8	21.4	18.1	18.0	18.0	26.0	22.0	20.2	18.3	22.0	16.7	16.4	17.5	20.1	29.8	44.8	46.2	51.2	32.7	32.8	36.1	26.9	
22	19.5	20.2	20.3	29.2	43.5	27.2	35.9	36.6	28.9	33.4	49.0	39.9	21.8	20.8	23.8	37.2	8.1	6.9	6.1	5.3	5.6	7.3	6.7	8.3	
23	8.5	6.8	5.2	6.4	6.7	7.7	7.4	9.0	8.6	6.2	5.0	5.3	4.3	4.8	4.8	5.6	6.3	17.5	32.6	37.0	30.6	35.6	46.3	54.3	
24	44.0	42.1	42.8	51.2	53.9	32.7	17.6	15.4	14.5	15.1	15.6	14.5	24.6	13.1	15.3	14.9	19.6	18.5	19.4	18.9	20.8	21.0	21.1	20.9	
25	21.4	19.6	19.4	27.7	42.0	32.1	6.8	9.1	10.0	7.2	5.8	5.0	5.8	5.0	5.4	6.8	7.7	10.8	6.2	4.8	4.9	5.4	6.6	9.3	
26	11.1	8.3	6.4	6.9	6.4	6.3	10.5	14.3	13.4	7.7	6.1	5.6	5.6	9.3	6.3	4.4	4.6	9.8	5.5	7.4	5.2	4.6	4.0	14.3	
27	4.0	4.2	4.2	4.8	5.0	9.4	23.3	36.5	27.3	15.1	11.3	8.8	7.6	7.5	C	8.9	10.8	13.9	18.1	23.0	21.0	21.6	26.3	36.4	
28	40.0	40.9	55.7	60.7	65.1	69.6	63.2	48.2	47.4	42.6	32.0	26.4	20.0	19.4	20.7	21.9	23.4	29.1	35.8	25.3	22.6	21.1	25.6	28.3	
29																								0	
30																								0	
31																								0	
Count	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	671	

		NO <sub>2</sub> - Rundle Road																													
		March 2015																													
		(µg/m <sup>3</sup> )																													
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>400	Days>200
1	32.9	36.1	35.6	33.5	33.2	26.4	27.4	25.9	19.9	16.3	16.9	11.0	10.6	23.9	23.0	14.9	18.3	23.9	29.3	26.4	30.9	46.1	24.5	17.3	24	46.1	10.6	25.2	0	0	
2	25.2	17.4	35.2	32.8	35.3	29.0	36.9	51.5	39.3	14.2	8.3	7.6	6.4	5.4	5.2	5.2	5.3	5.4	5.5	7.8	12.0	15.7	25.2	22.8	24	51.5	5.2	18.9	0	0	
3	30.2	34.9	33.4	34.8	40.0	34.2	39.7	39.4	54.7	17.8	17.4	20.0	13.5	18.7	12.7	15.7	14.5	13.4	16.8	21.2	25.8	22.4	26.8	36.5	24	54.7	12.7	26.4	0	0	
4	54.4	49.7	36.9	32.3	24.9	29.4	14.8	25.8	40.9	26.7	18.9	18.5	11.7	A	7.8	7.4	7.7	7.9	6.5	5.7	5.1	4.2	4.2	3.7	23	54.4	3.7	19.4	0	0	
5	3.5	4.0	4.0	4.1	4.0	5.2	6.1	7.3	8.7	4.9	5.3	6.6	4.6	4.8	4.0	4.2	4.7	4.3	5.5	5.9	5.6	8.8	12.9	14.7	24	14.7	3.5	6.0	0	0	
6	24.5	26.6	20.4	24.4	27.2	32.6	42.9	49.9	51.2	47.6	35.0	17.5	16.5	16.7	16.1	17.2	17.2	18.6	15.4	16.3	13.6	15.1	15.8	18.5	24	51.2	13.6	24.9	0	0	
7	16.1	16.7	16.7	16.3	19.4	18.5	18.9	24.9	26.5	25.6	24.4	25.3	17.8	17.0	15.9	18.2	16.7	17.7	19.1	20.3	30.6	35.9	34.6	46.5	24	46.5	15.9	22.5	0	0	
8	49.3	33.3	32.8	26.5	41.0	50.6	55.2	42.3	23.3	11.2	8.7	8.1	7.3	6.3	6.0	7.1	12.2	17.7	18.0	14.4	16.0	23.9	19.3	24	55.2	6.0	22.4	0	0		
9	19.3	33.9	36.0	20.9	22.5	21.2	27.0	40.0	43.8	22.5	24.5	24.1	18.0	14.7	14.9	14.4	18.7	20.3	22.4	31.6	45.3	31.8	24	45.3	14.4	25.9	0	0			
10	41.5	32.6	33.1	19.3	22.0	28.8	34.4	40.7	46.5	46.1	28.1	19.2	36.8	34.2	44.8	48.8	45.6	44.6	30.7	57.4	51.1	39.9	48.4	30.7	24	57.4	19.2	37.7	0	0	
11	27.2	28.6	36.2	72.4	70.4	86.4	83.9	43.6	25.5	11.0	9.5	8.6	9.3	8.9	8.9	10.2	26.1	12.0	11.0	19.8	25.3	15.2	6.5	6.1	24	86.4	6.1	27.6	0	0	
12	6.1	6.2	7.4	8.0	7.1	9.2	8.4	8.7	4.4	4.1	4.1	3.9	3.6	3.5	4.0	8.2	8.9	14.1	30.2	31.7	26.7	22.4	23.0	26.1	24	31.7	3.5	11.7	0	0	
13	26.0	21.2	26.4	29.9	32.0	26.3	22.5	26.1	14.5	19.6	7.2	6.7	11.4	10.6	8.0	7.4	14.9	16.2	22.5	20.2	15.6	12.4	14.8	20.1	24	32.0	6.7	18.0	0	0	
14	19.9	22.3	29.7	16.3	14.2	17.1	25.6	16.8	16.3	17.7	20.9	22.6	18.3	19.8	15.8	17.6	8.2	9.1	15.5	19.4	10.0	12.1	11.8	8.7	24	29.7	8.2	16.9	0	0	
15	7.8	5.8	5.7	5.7	5.4	5.0	4.7	4.7	5.2	5.2	4.7	4.2	4.2	4.1	4.3	4.9	5.0	6.5	7.2	10.9	19.2	57.6	58.2	24	58.2	4.1	10.5	0	0		
16	46.9	12.2	15.0	13.8	20.4	26.1	39.3	34.7	16.3	10.6	11.7	12.4	16.6	13.1	15.3	31.5	36.3	27.3	30.0	37.3	44.7	47.4	62.4	75.2	24	75.2	10.6	29.0	0	0	
17	68.1	76.5	61.9	21.9	7.7	7.8	8.4	7.6	6.1	5.4	4.8	4.3	3.9	3.7	3.6	3.6	3.6	3.9	4.0	3.9	3.5	3.3	3.5	24	76.5	3.3	13.5	0	0		
18	3.4	3.4	3.8	4.6	4.7	7.2	14.3	11.8	5.4	4.3	3.6	3.1	3.2	3.2	3.0	2.9	2.9	2.8	3.0	3.1	3.5	6.4	11.8	12.1	24	14.3	2.8	5.3	0	0	
19	11.1	11.6	11.6	11.8	12.1	9.8	6.2	5.1	4.7	3.8	3.0	6.5	6.0	7.5	9.2	5.8	6.8	8.9	23.9	15.7	18.6	26.0	44.9	36.0	24	44.9	3.0	12.8	0	0	
20	11.0	8.3	14.7	13.2	11.3	8.4	21.9	21.0	16.9	10.5	8.9	8.0	10.9	8.5	10.4	13.2	12.1	19.0	40.9	26.4	46.5	37.3	22.4	17.2	24	46.5	8.0	17.5	0	0	
21	25.5	16.8	14.8	12.9	15.3	17.0	10.4	17.5	13.0	12.9	13.8	15.6	8.5	5.9	4.9	4.9	4.9	4.6	4.5	4.3	4.3	4.3	4.0	24	25.5	4.0	10.2	0	0		
22	3.9	3.9	4.3	3.5	3.5	3.3	3.3	2.9	2.8	2.8	2.9	3.1	3.2	2.9	3.2	3.2	3.2	3.3	3.6	4.5	12.1	18.3	31.3	24	31.3	2.8	5.5	0	0		
23	28.0	8.4	3.4	3.0	2.8	3.2	4.3	3.0	3.1	2.6	3.0	3.2	3.1	3.6	3.5	3.1	3.5	3.4	3.6	4.3	4.4	4.1	3.9	24	28.0	2.6	4.7	0	0		
24	3.7	3.7	6.0	4.0	4.3	5.6	9.6	11.0	10.5	9.4	6.5	12.5	12.9	6.9	5.4	5.2	5.9	8.7	22.3	32.0	32.8	22.0	22.1	18.6	24	32.8	3.7	11.7	0	0	
25	17.3	23.0	15.4	13.2	14.3	23.1	26.4	25.9	12.1	12.2	11.0	15.9	16.7</																		

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY  
CENTRE – JANUARY TO MARCH 2015**

Appendix C NOX Data Summaries and Time History Plots  
May 13, 2015

**Appendix C NO<sub>x</sub> DATA SUMMARIES AND TIME HISTORY  
PLOTS**





		NOx		COURTICE																										
		February		2015																										
Hour																														
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300					
1	35.4	36.0	12.0	9.4	12.8	27.6	17.5	8.5	7.7	11.7	9.5	11.2	18.8	14.7	10.9	10.6	16.4	12.5	14.3	15.5	14.4	10.3	10.3	10.0	24	36.0	7.7	14.9	0	0
2	9.9	8.9	9.5	10.8	12.1	8.9	9.7	9.5	9.2	10.7	10.8	9.0	9.8	10.5	12.3	12.0	12.6	18.0	29.9	35.7	45.3	25.0	57.7	110.7	24	110.7	8.9	20.8	0	0
3	101.0	148.5	86.6	81.8	98.1	103.6	94.7	91.8	127.6	69.6	28.3	32.1	36.4	27.7	21.2	22.8	27.2	23.6	18.3	30.8	32.5	36.9	57.0	54.0	24	148.5	18.3	60.5	0	0
4	57.5	62.6	68.4	66.0	78.6	87.5	81.8	95.3	81.0	78.6	127.1	160.0	135.1	72.7	88.4	52.8	34.9	33.2	18.4	14.7	14.7	15.5	17.7	15.4	24	160.0	14.7	64.9	0	0
5	12.1	18.5	12.8	14.4	19.4	81.2	80.0	29.5	33.0	21.3	19.3	14.4	13.8	13.8	12.1	14.1	18.3	39.1	147.8	178.2	181.2	138.2	129.9	42.1	24	181.2	12.1	53.5	0	0
6	18.7	16.8	13.5	11.9	12.5	16.4	25.9	41.4	39.2	44.1	57.0	46.0	33.2	27.7	30.2	28.6	22.4	28.1	26.3	26.4	26.3	31.3	28.9	24	57.0	11.9	28.3	0	0	
7	28.9	30.0	33.5	32.5	33.2	31.8	28.4	24.2	32.3	30.0	34.7	28.3	28.0	37.7	34.3	29.7	33.9	30.6	16.5	18.4	12.1	11.0	16.1	19.4	24	37.7	11.0	27.3	0	0
8	11.6	17.1	14.5	15.7	13.4	12.6	13.4	17.3	14.6	14.2	17.8	16.7	15.7	13.6	13.5	14.7	17.9	14.5	12.3	13.4	14.3	15.8	10.5	13.4	24	17.9	10.5	14.5	0	0
9	10.7	15.5	9.6	13.2	18.6	12.4	15.2	29.1	15.9	21.4	18.2	17.6	16.3	16.6	25.0	19.2	20.3	36.9	17.8	22.3	20.7	25.5	20.8	22.4	24	36.9	9.6	19.2	0	0
10	18.3	25.0	21.6	18.6	19.5	25.7	24.2	26.0	16.9	35.0	97.6	22.4	17.3	18.5	12.2	14.7	10.3	11.2	110.7	146.5	157.9	146.4	132.2	112.5	24	157.9	10.3	51.7	0	0
11	88.4	81.1	73.1	58.6	35.5	40.3	69.3	106.3	65.0	29.0	35.7	21.9	8.7	11.3	17.4	22.5	25.6	16.3	20.5	30.0	41.5	55.2	51.8	24	106.3	8.7	44.1	0	0	
12	48.9	24.6	12.2	11.4	16.0	12.8	18.2	35.4	33.9	24.3	16.3	11.9	13.5	12.6	12.7	10.9	19.4	14.3	17.2	20.7	15.6	12.7	13.9	24	48.9	10.9	18.5	0	0	
13	15.9	12.9	12.0	11.9	19.3	24.1	33.7	45.0	28.1	22.2	27.4	30.6	27.7	32.1	45.8	55.6	71.3	98.8	31.4	10.3	10.2	8.4	9.9	14.5	24	98.8	8.4	29.1	0	0
14	12.3	13.1	13.7	14.5	17.0	18.3	16.9	17.7	23.6	31.3	15.6	10.6	10.9	9.2	9.2	10.6	8.3	9.3	16.3	15.2	10.7	8.5	7.5	6.7	24	31.3	6.7	13.6	0	0
15	7.6	7.4	9.8	6.6	6.7	6.1	7.2	7.0	7.4	14.0	9.0	8.3	8.7	10.2	10.6	9.3	10.5	12.9	13.2	11.6	11.9	10.1	13.2	8.5	24	14.0	6.1	9.5	0	0
16	9.4	8.4	9.7	13.3	15.4	22.3	15.3	22.3	27.7	17.7	11.1	9.3	9.3	14.1	16.1	14.7	19.9	57.3	322.2	169.3	126.6	80.4	66.3	69.1	24	322.2	8.4	47.8	0	0
17	67.0	45.5	44.9	45.1	38.1	33.4	31.0	30.2	47.0	40.5	44.9	13.7	9.3	37.4	25.9	17.6	14.5	18.9	17.7	12.1	13.9	38.5	80.5	88.1	24	88.1	9.3	35.7	0	0
18	140.3	123.5	86.6	91.2	86.5	83.4	101.8	103.6	92.3	71.5	54.3	30.1	25.9	21.7	21.0	21.3	24.0	25.4	32.5	25.6	22.8	16.2	13.3	13.4	24	140.3	13.3	55.3	0	0
19	14.5	19.0	16.6	18.6	20.2	17.8	16.9	21.4	18.7	14.8	15.4	16.3	15.7	13.6	13.1	14.7	13.3	14.2	18.2	17.5	17.0	16.8	17.6	18.9	24	21.4	13.1	16.7	0	0
20	18.1	16.3	15.1	15.8	12.0	17.3	16.5	17.8	17.7	16.3	18.2	15.8	20.8	21.5	38.0	26.1	17.5	15.5	12.0	47.5	76.3	66.9	41.7	14.5	24	76.3	12.0	24.8	0	0
21	16.6	19.1	19.8	18.3	19.0	17.3	17.9	17.0	19.2	20.1	19.6	18.4	18.8	18.0	18.6	18.7	42.9	66.4	65.9	68.5	44.2	59.4	93.3	24	93.3	16.6	34.2	0	0	
22	63.4	83.0	75.6	54.3	55.4	70.2	63.5	72.9	73.0	76.1	84.7	56.5	25.0	23.9	27.8	49.8	16.7	14.9	13.5	20.0	19.1	19.4	16.4	18.7	24	84.7	13.5	45.6	0</td	

		NOx		COURTICE																					
				March 2015																					
						(µg/m³)																			
Hour																									
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
1	72.6	82.1	53.2	48.2	39.8	41.1	44.7	53.1	37.6	28.7	18.2	14.5	21.2	32.2	25.9	14.5	16.0	24.1	24.0	19.9	28.2	54.1	34.0	29.4	
2	20.7	23.0	25.6	25.6	26.6	22.5	30.2	38.7	46.0	24.3	15.8	14.0	13.9	13.2	12.7	12.2	13.9	14.8	19.2	27.1	44.3	104.2	129.3	131.2	
3	118.0	120.1	107.6	93.9	105.5	127.4	142.9	187.8	78.1	10.7	10.6	9.5	13.5	12.2	10.6	10.3	13.2	12.1	15.8	12.2	14.6	21.5	34.0	24	
4	36.4	36.3	33.0	27.2	25.8	28.9	24.5	34.0	51.2	30.6	A	A	13.3	13.0	12.9	10.5	13.9	12.5	15.1	13.8	9.8	9.3	4.8	21.7	
5	11.0	5.1	4.8	5.1	9.6	10.1	16.1	14.6	19.6	17.0	8.1	7.7	7.9	6.3	5.3	12.4	10.4	9.5	18.7	21.2	40.2	46.5	52.7	87.1	
6	135.1	75.1	59.5	63.8	67.2	69.3	108.1	153.3	136.5	126.8	47.8	13.7	13.4	13.9	13.5	12.2	10.9	10.5	6.2	8.8	7.7	8.4	10.5	11.9	
7	11.0	11.4	11.3	11.3	12.1	12.1	14.4	17.0	21.1	24.6	27.1	24.8	16.4	13.9	12.5	11.2	11.2	11.9	13.4	14.1	33.7	71.3	83.4	87.8	
8	75.4	67.4	56.1	58.5	55.4	58.0	70.5	56.6	31.3	12.6	8.9	7.1	6.4	5.8	6.5	5.4	7.4	7.4	7.2	6.5	7.0	8.3	9.5	12.1	
9	11.8	15.9	57.5	42.9	64.5	77.1	112.1	105.7	60.3	40.2	27.0	30.0	23.3	13.2	8.6	7.7	7.3	7.1	8.2	9.0	9.1	8.5	9.3	24	
10	9.8	8.0	8.5	16.1	64.5	129.0	171.1	147.7	105.1	44.7	15.5	10.1	15.1	11.5	18.4	13.6	14.3	16.9	51.4	42.5	36.0	16.6	14.4	17.3	
11	19.8	20.1	20.2	34.0	33.7	42.8	117.9	124.0	56.9	21.3	14.0	11.1	10.0	9.8	9.0	9.1	9.6	7.9	9.4	17.9	20.7	20.3	8.2	15.5	
12	12.0	13.9	29.6	33.8	35.5	24.4	33.9	24.7	9.0	7.5	5.6	6.8	6.6	6.2	3.7	3.0	3.2	6.3	12.8	87.3	97.0	114.8	124.3	24	
13	107.8	100.8	56.6	51.5	57.1	41.5	46.7	26.7	9.3	7.5	6.8	7.5	12.7	13.3	8.7	7.3	9.2	14.0	10.2	24.3	36.4	25.4	17.0	10.5	
14	21.3	9.4	12.5	12.9	10.3	14.4	19.1	30.6	16.9	18.9	12.3	14.5	13.8	10.9	20.1	34.6	9.2	9.8	11.9	10.6	9.2	8.8	9.2	7.3	
15	7.4	4.3	5.2	5.1	7.4	5.9	4.1	4.7	6.4	8.8	5.2	5.8	5.6	4.0	4.6	4.4	8.4	9.9	15.8	31.5	49.3	67.4	112.8	115.0	
16	31.4	6.6	6.1	5.3	4.2	5.3	5.5	5.5	6.7	4.5	4.2	4.0	4.0	4.1	4.3	18.9	39.2	17.9	12.6	11.1	13.4	57.0	69.8	94.8	
17	112.8	62.8	109.0	75.3	16.0	14.9	14.4	11.4	7.9	14.2	8.2	7.4	6.1	5.1	5.6	4.3	7.3	6.1	7.7	6.7	4.8	4.5	5.9	5.5	
18	4.6	4.5	6.5	9.2	12.8	36.1	29.0	27.0	8.7	7.5	6.1	5.1	4.5	3.7	5.8	4.1	4.7	8.4	5.6	9.5	11.4	25.9	45.7	59.7	
19	83.3	56.7	40.5	45.2	56.9	81.6	69.2	12.9	14.4	6.5	6.4	3.0	2.1	1.0	1.2	1.7	2.2	2.9	2.6	1.9	1.7	3.8	12.9	24	
20	1.4	1.3	3.0	5.7	10.5	32.1	6.8	17.7	7.7	45.7	20.1	5.4	5.4	7.6	7.0	7.4	8.8	10.3	46.8	17.6	51.5	67.2	13.0	8.0	
21	7.3	6.4	6.0	5.7	5.9	6.3	6.1	5.9	7.1	6.6	8.6	11.7	8.7	6.6	5.5	3.9	4.1	6.3	4.7	5.6	4.6	5.4	3.8	4.1	
22	3.0	4.5	6.5	4.1	10.2	1.9	4.1	5.1	2.7	5.2	2.5	2.4	2.6	2.4	2.2	4.4	5.1	5.4	6.2	6.8	10.3	9.7	19.6	25.5	
23	26.9	10.3	4.1	14.2	6.2	11.1	15.8	5.7	4.5	10.4	3.7	3.2	3.9	3.6	4.1	4.3	5.8	9.2	15.2	16.4	15.0	17.9	12.7	13.2	
24	19.8	11.9	10.7	12.4	27.0	45.5	40.5	26.6	19.7	9.1	4.0	3.8	3.6	2.7	1.5	1.6	1.1	1.3	1.7	6.8	63.0	101.7	61.6	44.4	
25	44.5	44.6	29.6	31.2	34.7	33.1	32.1	31.8	12.1	13.8	11.4	12.2	15.6	17.8	16.2	16.3	18.0	10.1	9.4	10.7	10.8	8.1	7.9	8.9	
26	23.9	15.5	22.0	10.5	11.1	10.3	6.3	C	C	4.1	4.1	2.2	2.6	6.3	8.7	10.2	14.1	12.9	9.1	58.3	47.2	27.6	23.5	21.9	
27	28.1	29.0	29.2	15.9	5.6	9.5	8.7	4.7	5.3	5.2	5.4	4.2	1.6	2.2	3.0	1.5	1.8	2.1	3.7	8.0	3.1	2.8	0.7	2.0	
28	4.7	1.4	2.0	0.4	0.0	3.5	17.2	0.4																	

		NOx		Rundle Road																						
		January		2015																						
Hour		(µg/m³)																								
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
1	0	12.1	13.9	12.4	9.2	9.0	8.3	10.4	9.3	9.0	10.0	10.5	10.7	12.3	12.8	13.4	15.0	15.4	16.0	15.6	14.3	14.8	13.6	13.8	12.9	
2	0	13.2	16.4	14.6	13.9	4.3	4.6	7.5	7.3	10.1	9.5	7.6	5.5	4.2	4.3	4.7	5.3	5.7	6.5	6.3	21.1	14.3	10.7	13.5	12.4	
3	0	7.8	7.7	14.7	11.9	6.8	6.2	7.7	9.5	38.2	40.4	14.8	17.9	41.3	32.1	45.9	76.0	18.2	19.8	55.1	35.5	47.8	19.1	14.2	11.6	
4	0	10.7	21.6	16.0	9.6	8.8	9.6	10.7	10.2	11.0	12.0	17.3	19.4	15.4	46.9	22.4	15.8	16.2	9.3	6.6	5.8	5.7	7.0	6.8	3.6	
5	0	3.5	3.6	3.0	3.5	3.7	4.3	5.4	7.2	11.0	20.8	8.6	8.1	11.1	10.6	10.9	9.8	18.6	16.5	16.1	18.5	21.9	28.2	33.1	37.0	
6	0	23.5	23.1	28.8	30.2	34.8	37.7	20.3	78.4	166.2	58.2	73.3	82.3	69.4	60.1	67.6	58.3	41.3	32.2	29.6	31.5	23.0	20.0	16.4	16.6	
7	0	20.7	13.9	16.3	10.4	4.1	3.9	4.3	6.0	9.6	9.3	8.6	9.7	10.6	7.5	7.7	5.3	7.8	4.0	4.5	5.7	7.0	9.5	10.3	9.1	
8	0	11.4	36.8	49.3	42.5	26.6	26.2	20.9	22.9	25.2	18.9	22.5	34.3	24.2	24.5	24.7	22.4	16.3	13.0	11.4	16.0	15.6	24.8	12.0	17.7	
9	0	12.8	15.3	19.3	18.6	17.4	18.9	28.4	31.9	35.1	30.7	29.3	30.7	9.7	7.6	6.7	11.9	16.6	13.8	18.5	21.4	22.2	23.0	18.3	24	
10	0	14.1	13.9	13.4	19.4	15.9	9.3	15.3	17.1	16.3	16.8	20.2	16.3	18.5	18.7	15.1	13.7	14.4	16.8	18.1	19.8	19.2	20.6	21.9	29.1	
11	0	31.9	25.7	26.6	27.6	28.0	24.8	27.0	29.1	36.0	28.6	18.8	19.8	21.8	16.9	19.2	23.8	18.1	16.7	16.6	18.4	19.5	20.4	21.1	18.2	
12	0	21.7	21.7	31.4	30.4	36.7	49.7	42.1	52.9	56.8	77.5	81.5	77.0	48.1	19.1	13.9	12.1	15.3	6.2	5.3	4.3	4.3	4.0	3.6	24	81.5
13	0	3.7	3.7	3.4	4.0	3.8	4.1	4.2	14.2	22.2	18.7	12.5	11.0	20.0	19.8	27.6	24.5	34.9	28.6	29.5	12.3	11.0	12.4	11.2	24	
14	0	10.4	23.9	9.5	8.7	22.5	12.4	15.6	27.6	34.0	27.5	31.7	37.8	28.1	52.6	43.3	41.2	33.9	67.0	47.4	38.8	31.5	26.2	27.0	17.7	24
15	0	24.8	17.6	15.7	39.6	63.5	49.4	69.6	98.5	109.5	87.8	83.8	73.5	50.8	57.6	57.8	42.3	19.6	17.4	18.6	20.7	20.3	25.9	27.4	32.5	24
16	0	36.5	34.2	38.0	40.3	26.2	8.4	7.2	11.7	13.9	14.8	11.8	10.5	5.2	12.2	4.8	4.5	5.6	6.2	8.9	10.3	14.1	16.4	9.0	6.6	24
17	0	8.7	12.9	14.5	18.8	10.1	16.0	8.1	7.9	9.1	23.6	16.0	7.2	8.7	30.6	25.8	51.7	58.9	33.2	37.8	14.9	25.9	48.1	36.5	26.9	24
18	0	21.1	19.0	13.0	9.6	9.3	9.1	9.7	16.8	10.5	16.3	12.4	11.6	14.1	15.4	23.2	13.1	14.9	20.9	13.2	19.3	30.3	11.1	6.6	6.0	24
19	0	5.1	4.6	4.8	5.2	4.3	4.4	4.5	7.2	9.6	8.0	8.9	8.6	10.3	7.6	7.6	8.1	10.1	5.5	4.9	5.1	5.2	4.2	3.8	24	10.3
20	0	3.6	4.2	3.6	3.5	4.4	4.2	4.5	16.4	27.1	16.4	13.8	12.2	10.0	11.0	8.2	9.4	9.7	8.8	5.8	6.7	6.2	6.4	5.6	5.5	24
21	0	4.5	4.5	5.0	6.1	6.4	10.0	13.7	31.2	48.7	19.1	16.2	26.1	16.6	18.3	21.1	18.3	16.5	11.2	11.5	11.0	10.7	8.7	6.9	7.6	24
22	0	5.9	6.2	4.4	4.8	5.0	5.5	4.7	18.2	23.6	20.6	12.5	43.1	51.1	39.3	26.1	10.7	9.1	14.6	14.6	17.2	30.7	49.0	38.0	26.3	24
23	0	20.3	16.4	15.7	18.5	15.6	12.2	16.8	19.4	20.0	26.8	19.2	17.2	15.8	22.4	C	11.3	11.9	12.0	15.3	13.1	15.1	24.1	20.9	19.7	23
24	0	24.9	27.1	27.4	26.6	26.6	22.3	30.7	26.0	21.1	25.2	24.2	24.5	38.8	51.0	49.2	43.5	47.4	44.8	40.0	46.8	59.6	56.3	36.2	11.4	24
25	0	7.4	6.3	5.7	5.0	4.5	3.7	3.9	3.9	4.2	4.0	3.6	3.7	3.4	3.8	3.8	3.8	4.1	4.1	4.6	4.6	4.2	3.9	5.7	24	
26	0	5.2	19.5	5.5	18.4	8.0	5.0	5.3	7.4	9.3	7.4	20.2	22.2	7.7	8.4	10.4	5.8	8.2	7.7	16.2	4.4	15.1	6.6	5.7	8.2	24
27	0	5.5	5.0	5.3	5.4	5.2	5.9	7.2	10.9	12.9	8.7	7.1	8.5	6.6	5.8	7.5	5.3	10.5	10.0	6.5	5.4	5.0	4.6	4.4	3.6	24
28	0	3.9	4.1	5.3	10.8	4.2	4.6	8.4	19.9	14.3	8.8	10.9	9.5	6.3												

		NOx		Rundle Road																											
		February		2015																											
Hour																															
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average	Hrs>400	Days>200
1	26.4	25.2	8.4	6.3	5.8	6.0	5.9	5.2	4.6	4.4	5.7	9.0	4.9	5.1	8.5	5.0	4.6	4.8	4.9	4.2	4.0	21.8	4.6	4.4	24	26.4	4.0	7.9	0	0	
2	3.6	4.4	4.1	6.2	6.3	4.8	5.2	5.8	6.5	9.3	12.9	11.6	9.5	11.2	12.3	10.8	18.2	9.4	8.8	11.0	9.3	5.6	10.5	27.3	24	27.3	3.6	9.4	0	0	
3	56.3	35.2	51.7	57.7	81.6	68.1	69.9	59.8	89.2	80.5	40.8	36.9	45.2	36.5	29.2	32.6	36.6	50.4	24.2	35.0	35.3	37.1	42.9	36.1	24	89.2	24.2	48.7	0	0	
4	35.2	36.2	41.0	54.4	39.4	49.0	65.8	84.5	100.4	91.0	121.0	107.7	83.6	64.7	76.9	50.9	32.5	17.7	9.2	7.4	5.8	5.1	4.6	5.0	24	121.0	4.6	49.5	0	0	
5	5.2	4.8	5.3	4.5	5.9	15.6	22.7	16.3	20.6	16.6	18.7	10.8	11.4	7.4	10.8	12.3	10.4	12.8	17.8	19.8	26.1	42.4	67.9	56.7	24	67.9	4.5	18.4	0	0	
6	25.9	19.1	15.1	12.8	15.6	18.5	30.7	52.5	51.4	53.7	59.1	39.7	33.4	24.5	23.6	27.1	26.2	32.6	35.2	35.0	29.1	32.4	39.7	34.3	24	59.1	12.8	32.0	0	0	
7	24.1	30.5	25.7	25.8	29.6	21.5	16.8	12.8	22.3	25.1	18.6	14.3	12.3	20.9	17.2	12.4	15.1	22.4	13.8	8.1	9.3	30.4	36.6	5.8	24	36.6	5.8	19.6	0	0	
8	23.6	5.4	6.2	17.6	28.8	6.2	6.3	7.5	9.1	10.1	9.8	14.0	9.3	11.6	9.6	10.9	8.8	8.0	6.1	9.6	9.5	27.7	5.8	11.2	24	28.8	5.4	11.4	0	0	
9	5.2	4.9	4.9	5.9	5.4	6.2	9.1	14.1	16.2	16.7	16.1	12.5	11.3	15.4	12.5	12.5	7.5	9.2	8.7	8.1	6.5	7.1	24	16.7	4.9	9.8	0	0			
10	5.6	5.5	5.5	8.4	7.9	6.7	7.2	11.8	13.8	12.3	14.1	13.0	12.7	34.1	21.4	17.8	21.2	41.9	37.3	41.5	42.4	26.4	25.6	25.5	24	42.4	5.5	19.2	0	0	
11	22.1	19.2	20.4	19.8	17.6	14.8	41.2	38.3	34.3	25.7	42.2	64.1	43.7	23.7	31.7	35.3	40.0	25.4	33.3	30.5	57.2	71.5	60.0	63.0	24	71.5	14.8	36.5	0	0	
12	72.2	18.0	5.8	4.9	5.9	7.1	8.9	16.6	20.6	13.0	11.9	11.4	10.8	10.9	9.6	9.9	9.7	7.1	5.5	5.2	3.5	3.6	3.7	4.1	24	72.2	3.5	11.7	0	0	
13	3.8	3.8	4.0	3.8	4.6	6.2	8.3	32.6	18.4	15.1	12.8	19.4	21.0	31.4	45.1	54.1	65.7	71.3	81.5	16.6	15.5	12.4	17.4	23.5	24	81.5	3.8	24.5	0	0	
14	19.3	13.8	14.6	14.8	20.7	22.4	20.1	25.4	25.9	25.2	9.4	4.9	4.6	3.8	4.5	4.1	4.4	4.7	6.0	7.0	6.3	4.4	4.2	3.9	24	25.9	3.8	11.4	0	0	
15	3.9	3.8	3.4	3.5	3.9	4.0	3.4	4.0	3.7	3.7	3.8	4.1	3.5	3.7	3.8	3.8	3.8	3.8	3.6	3.7	3.7	3.4	3.1	4.6	24	4.6	3.1	3.7	0	0	
16	3.4	3.1	3.4	3.5	4.0	4.0	4.6	16.6	34.1	10.5	3.9	4.1	3.9	4.5	14.7	17.1	20.7	32.5	39.1	36.4	44.6	21.2	18.0	22.9	24	44.6	3.1	15.5	0	0	
17	21.6	23.4	25.1	24.4	16.3	16.9	14.8	20.2	27.3	21.2	23.5	18.7	15.2	42.1	36.8	26.5	23.2	29.5	29.5	23.0	19.2	35.9	44.7	50.3	24	50.3	14.8	26.2	0	0	
18	53.7	48.2	47.3	45.4	80.6	55.2	57.3	67.1	70.9	55.4	40.5	24.7	21.2	21.1	20.7	15.6	14.4	11.3	8.9	7.0	5.1	4.3	4.4	4.1	24	80.6	4.1	32.7	0	0	
19	4.1	5.7	6.9	7.0	5.8	5.0	13.6	15.8	11.5	10.0	7.2	7.2	6.6	6.5	7.1	8.1	6.6	7.3	7.0	5.6	5.3	6.5	6.1	24	15.8	4.1	7.4	0	0		
20	6.7	6.5	6.1	4.4	4.0	4.4	4.6	5.9	8.5	9.2	9.2	12.2	17.7	18.4	36.1	35.8	29.2	22.4	17.3	39.5	45.4	45.5	43.8	16.9	24	45.5	4.0	18.7	0	0	
21	20.7	27.7	23.0	28.0	18.4	18.4	18.7	37.8	24.9	25.4	24.5	30.2	21.8	22.3	22.8	24.0	34.6	49.0	46.9	51.8	32.7	33.7	36.3	26.6	24	51.8	18.4	29.2	0	0	
22	19.4	20.1	20.3	39.2	59.4	28.6	45.2	42.4	38.0	52.5	92.4	65.1	26.4	25.1	28.2	48.6	8.0	6.7	5.9	4.7	5.3	7.4	6.4	8.3	24	92.4	4.7	29.3	0	0	
23	8.9	6.9	5.0	6.7	6.9	8.1	7.8	11.2	14.2	10.0	8.9	9.3	6.6	7.5	6.9</td																

		NOx		Rundle Road																						
		March		2015																						
Hour																										
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
1	32.8	36.3	35.9	33.6	33.3	26.6	28.4	28.0	22.3	19.2	20.0	12.8	12.2	33.6	31.7	17.2	20.3	24.8	29.5	26.4	31.2	46.3	24.5	17.3		
2	25.3	17.3	35.5	33.1	35.8	28.8	37.3	59.3	53.4	18.5	9.7	9.2	7.4	5.9	6.4	5.9	5.9	5.5	6.0	7.7	11.8	15.6	29.0	23.0	24	
3	30.4	34.7	33.5	35.1	40.1	34.7	42.7	53.5	83.5	21.4	27.5	26.5	16.9	25.3	15.0	20.9	15.8	14.2	17.7	22.0	26.5	22.9	26.8	37.0	24	
4	56.4	50.4	37.2	32.6	25.2	30.0	15.2	29.6	56.8	38.7	27.1	24.4	14.8	A	9.4	8.2	8.8	8.5	6.7	5.2	4.9	4.0	4.1	3.6	23	
5	3.3	3.7	3.7	4.0	4.0	5.0	6.1	11.1	13.8	8.1	7.8	11.2	7.9	8.2	5.8	5.3	8.1	5.1	6.4	5.6	5.2	9.1	12.8	14.7	24	
6	24.6	26.5	21.0	24.7	27.4	33.3	46.2	81.8	104.0	110.9	73.2	27.3	24.2	24.2	23.2	23.4	20.3	20.7	16.2	16.6	13.6	15.8	15.9	19.7	24	
7	16.1	16.4	16.6	16.1	19.4	18.4	18.7	26.7	30.7	33.4	34.4	37.2	23.1	21.2	17.7	28.4	18.0	17.8	19.0	20.5	30.2	36.3	34.7	47.2	24	
8	49.2	32.9	34.0	26.2	41.1	51.0	56.5	46.9	27.9	11.8	9.1	8.3	7.9	6.4	6.9	6.0	7.5	13.0	17.5	26.3	14.2	15.6	25.3	18.8	24	
9	19.1	33.7	35.9	20.7	22.4	20.8	28.0	47.3	61.6	31.2	33.2	38.2	37.2	24.0	17.4	16.4	14.9	18.9	19.6	21.9	30.6	31.2	47.3	31.6	24	
10	41.6	32.2	35.5	18.9	21.6	29.2	37.1	53.5	69.2	74.7	39.5	24.8	52.3	41.6	57.3	59.6	55.2	48.9	31.0	61.2	51.7	43.0	48.6	31.4	24	
11	27.0	29.0	36.6	74.0	74.8	120.1	97.4	50.8	31.6	12.3	9.7	8.9	10.0	9.3	9.1	10.8	31.9	12.4	10.5	19.5	25.1	14.6	6.3	5.5	24	
12	5.8	5.8	7.0	7.4	7.0	9.0	9.0	10.0	4.6	4.3	4.7	4.2	4.0	3.5	4.2	10.0	9.9	14.6	30.1	32.2	26.7	21.7	23.0	26.1	24	
13	26.8	21.2	26.5	29.9	31.7	26.3	23.3	31.6	16.3	31.0	8.0	7.8	16.9	17.3	8.9	8.0	23.0	18.3	24.2	26.8	17.2	12.6	14.6	20.0	24	
14	20.0	23.0	35.1	15.8	13.7	16.8	28.9	16.8	27.9	19.5	34.4	38.7	21.0	22.1	16.5	19.0	8.1	9.0	14.8	19.2	9.8	12.0	11.9	8.5	24	
15	7.5	5.7	5.6	5.5	5.0	4.4	4.4	4.5	4.9	5.1	5.3	4.8	4.4	4.3	3.9	4.1	4.5	4.9	6.2	6.9	10.5	19.5	70.5	75.7	24	
16	50.8	12.1	15.0	13.8	20.5	26.4	45.4	39.5	17.9	11.8	14.2	14.8	21.1	15.7	19.5	37.4	40.7	27.9	29.8	37.5	48.2	49.7	88.1	91.7	24	
17	91.4	112.8	71.6	22.1	7.5	7.6	8.2	7.4	5.9	5.2	5.4	4.3	3.8	3.7	3.9	4.1	3.5	4.1	3.8	3.8	3.4	3.0	3.4	112.8	30	
18	3.3	3.1	3.4	4.3	4.8	7.4	15.4	13.8	6.3	5.6	4.0	3.4	3.4	3.4	3.6	2.9	3.3	2.6	2.9	3.1	3.1	6.3	12.9	11.9	24	
19	11.2	11.4	11.3	11.8	12.1	10.4	6.9	5.5	5.5	4.3	3.2	8.3	7.3	9.5	14.1	6.9	9.3	9.6	24.3	16.0	18.6	25.6	45.3	36.5	24	
20	18.1	8.7	24.3	13.1	11.7	8.2	24.6	28.3	27.7	11.7	10.4	9.7	13.6	10.5	12.8	16.0	14.3	20.4	41.5	29.2	56.0	38.1	22.1	17.1	24	
21	28.2	16.5	14.7	12.8	19.3	22.5	10.5	24.0	13.5	13.6	15.1	17.3	9.6	5.8	4.7	5.1	5.2	5.0	4.5	3.8	4.8	4.4	4.2	4.1	24	
22	3.6	4.0	4.0	3.3	3.2	3.3	3.1	2.9	3.2	3.1	2.9	2.9	3.4	3.5	3.0	3.4	3.3	3.3	3.4	3.5	4.6	12.2	18.4	31.4	24	
23	27.8	8.3	3.1	2.9	2.8	3.4	5.3	3.2	3.8	2.9	3.5	3.9	3.5	4.6	3.6	3.6	3.8	3.5	3.5	4.3	4.2	3.7	3.4	27.8	2.8	
24	3.3	3.5	6.2	3.8	4.5	6.1	13.5	14.8	14.8	13.5	8.8	20.2	19.3	9.2	6.5	6.0	6.8	9.8	25.2	33.0	40.3	22.2	22.7	18.6	24	
25	21.2	24.5	14.9	13.3	14.0	29.5	32.8	34.1	14.2	14.2	13.3	22.5	25.4	28.7	20.2	25.2	39.2	36.7	32.4	33.9	34.9	17.8	16.6	17.4	24	
26	19.8	12.5	28.3	28.3	44.7	44.0	42.6	26.0	21.1	37.1	20.2	16.3	21.3	20.5	85.0	C	29.9	28.8	27.0	19.0	13.3	3.8	6.2	6.1	85.0	3.8
27	4.9	6.0	14.3	28.6	1.6	0.6	2.3	1.5																		

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Appendix D PM2.5 Data Summaries and Time History Plots  
May 13, 2015

**Appendix D PM<sub>2.5</sub> DATA SUMMARIES AND TIME HISTORY PLOTS**



		PM <sub>2.5</sub> - COURTICE																											
		January 2015		(µg/m <sup>3</sup> )																									
		Hour																											
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	0	4.5	7.3	6.7	6.4	6.8	6.6	6.5	6.9	6.2	5.8	6.0	6.3	6.3	6.6	7.1	6.6	6.8	6.3	5.9	6.0	6.4	6.2	5.9	5.8	24	7.3	4.5	6.3
2	0	7.6	10.2	9.0	5.7	0.2	0.3	0.2	0.2	0.3	0.5	0.5	0.4	0.7	1.0	1.5	2.1	2.7	2.8	4.5	7.3	11.7	43.7	34.0	3.7	24	43.7	0.2	6.3
3	0	3.8	4.6	4.8	3.1	2.2	1.5	2.4	3.0	3.5	5.2	6.8	6.5	6.6	9.0	9.8	7.8	7.8	7.6	7.2	8.2	6.4	4.5	6.2	24	9.8	1.5	5.7	
4	0	11.6	2.7	2.2	1.6	0.5	0.2	0.4	0.3	1.0	0.9	0.8	0.2	0.2	3.7	1.5	0.7	0.4	0.5	3.3	5.8	4.2	5.5	1.7	0.2	24	11.6	0.2	2.1
5	0	0.2	0.7	1.0	1.4	1.2	1.2	1.2	1.0	1.8	2.8	2.2	1.3	1.8	2.1	3.0	3.1	6.0	7.5	8.1	8.3	8.8	8.9	9.5	9.2	24	9.5	0.2	3.9
6	0	10.5	10.5	9.7	9.9	10.6	8.2	7.6	7.8	6.8	8.7	7.4	4.9	4.6	4.0	4.8	6.7	6.8	6.5	6.4	8.0	6.6	7.4	6.4	6.2	24	10.6	4.0	7.4
7	0	6.1	4.1	4.7	3.4	1.5	2.7	3.1	5.5	6.2	5.5	4.9	4.2	3.4	3.1	2.9	3.7	3.9	4.8	6.0	7.4	7.3	7.7	9.2	9.3	24	9.3	1.5	5.0
8	0	9.0	8.1	5.9	2.6	1.5	1.3	1.6	3.0	3.6	4.0	4.1	4.2	4.3	4.4	4.3	4.2	3.0	3.2	3.8	5.1	4.7	3.8	3.7	3.8	24	9.0	1.3	4.0
9	0	4.5	6.6	7.8	8.9	9.6	9.6	10.1	10.2	8.5	5.2	5.1	3.7	0.5	0.2	0.2	0.2	0.3	0.8	1.7	3.0	3.8	3.9	4.6	3.7	24	10.2	0.2	4.7
10	0	4.7	6.9	6.7	5.7	6.4	6.0	6.1	6.1	7.5	7.2	7.2	6.1	6.3	5.6	4.6	4.6	4.3	5.9	8.8	8.6	9.4	12.0	14.4	24	14.4	4.3	7.2	
11	0	14.9	13.9	13.8	14.1	12.9	10.0	9.7	10.6	10.2	6.5	5.8	7.0	7.3	6.4	6.7	6.6	6.7	6.9	7.6	8.1	7.6	8.0	8.2	8.6	24	14.9	5.8	9.1
12	0	10.2	13.3	16.6	20.3	21.6	20.8	19.4	20.4	23.1	31.1	34.2	37.2	32.5	11.0	4.1	3.5	3.9	5.1	2.2	1.6	1.8	2.1	2.5	3.0	24	37.2	1.6	14.2
13	0	3.5	4.1	4.8	5.6	6.0	6.5	6.8	7.1	6.8	5.8	22.0	30.1	29.0	6.9	6.3	6.4	7.7	30.0	13.1	8.6	8.5	8.5	6.0	5.2	24	30.1	3.5	10.2
14	0	4.2	3.4	3.5	3.5	4.2	4.1	4.7	5.9	15.8	11.8	5.5	3.7	1.1	1.2	2.0	2.5	3.7	8.1	22.3	25.2	24.1	25.1	33.0	40.8	24	40.8	1.1	10.8
15	0	29.3	41.6	23.9	26.7	25.2	26.8	27.2	26.4	21.5	14.3	18.8	18.8	17.4	18.2	18.5	18.0	16.3	21.1	19.9	17.3	17.6	20.4	24.8	30.4	24	41.6	14.3	22.5
16	0	35.0	37.4	40.5	46.0	27.6	0.7	0.4	0.8	1.8	2.2	2.4	1.7	1.4	1.6	1.8	1.7	1.6	2.7	4.5	5.9	7.9	8.4	8.2	7.3	24	46.0	0.4	10.4
17	0	9.6	15.6	12.9	8.0	6.1	5.5	6.0	9.6	9.4	3.8	1.7	1.2	1.4	2.0	2.2	3.6	3.7	4.0	4.4	4.8	6.4	5.7	4.8	4.1	24	15.6	1.2	5.7
18	0	3.1	2.5	2.5	2.7	2.8	3.4	4.6	10.2	11.3	10.4	8.7	7.3	10.1	10.1	9.0	8.6	10.1	11.9	14.7	17.8	5.4	0.9	1.3	24	17.8	0.9	7.2	
19	0	1.6	1.9	1.4	1.1	1.6	2.6	2.4	3.2	3.6	4.1	4.5	3.1	2.3	2.4	2.4	3.1	5.1	7.4	7.8	8.0	8.7	7.9	7.8	24	8.7	1.1	4.1	
20	0	8.4	9.4	8.7	8.3	8.6	8.4	7.7	7.7	7.6	6.3	3.9	1.7	0.8	0.2	0.2	0.2	0.4	2.0	5.1	6.6	9.0	7.7	6.9	6.6	24	9.4	0.2	5.5
21	0	6.4	6.4	5.8	6.4	8.0	5.3	4.1	6.2	6.8	9.0	6.8	18.0	10.1	6.9	6.8	5.4	12.2	11.4	11.8	11.5	10.4	10.2	10.7	12.2	24	18.0	4.1	8.7
22	0	9.5	5.5	5.8	6.9	10.6	10.3	8.8	10.4	10.5	7.1	3.9	3.9	3.8	5.3	3.4	2.0	2.4	4.3	6.0	8.5	11.3	16.5	11.0	10.3	24	16.5	2.0	7.4
23	0	10.7	9.8	10.7	11.2	9.3	8.1	10.6	12.1	11.9	11.3	10.3	9.3	C	11.6	10.3	10.3	12.2	14.3	18.4	19.7	18.5	21.2	20.2	22.1	23	22.1	8.1	13.2
24	0	29.6	34.9	38.4	38.5	37.6	37.1	33.7	25.5	25.0	19.8	21.9	32.9	41.4	46.5	47.8	45.0	44.9	40.1	39.0	37.4	31.5	24.4	15.9	1.6	24	47.8	1.6	32.9
25	0	0.2	0.2	0.2	0.3	1.5	2.1	2.6	2.4	2.1	1.7	1.0	0.4	0.2	0.2	0.2	0.3	1.1	2.4	2.8	3.1	2.9	2.8	3.2	3.1	24	3.2	0.2	1.5
26	0	1.5	0.8	0.8	1.0	1.0	0.9	0.9	1.2	2.6	1.3	0.8	0.4	0.5	0.7	0.9	0.4	1.0	0.6	0.7	1.2	1.6	2.1	2.7	24	2.7	0.4		

		PM <sub>2.5</sub> - COURTICE																											
		February 2015		(µg/m <sup>3</sup> )																									
		Hour																											
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	0	24.7	22.7	3.1	3.2	4.3	6.0	4.3	2.6	1.7	1.7	2.6	2.6	2.1	2.1	2.4	2.8	3.3	2.9	3.2	4.2	4.1	3.8	3.3	3.3	24	24.7	1.7	4.9
2	0	4.5	5.5	4.6	3.8	3.5	3.1	2.9	3.2	5.2	7.7	7.5	6.4	5.0	3.5	3.3	4.0	3.7	4.2	7.1	8.1	8.5	7.8	10.0	13.5	24	13.5	2.9	5.7
3	0	13.8	14.3	10.2	8.3	9.5	10.5	10.6	10.2	11.9	9.2	7.4	8.6	9.4	7.8	7.2	8.9	7.4	6.0	5.8	9.6	12.3	16.2	20.4	27.5	24	27.5	5.8	11.0
4	0	23.8	25.5	26.9	29.1	29.4	29.3	33.9	33.3	29.7	28.2	33.7	39.6	35.0	34.3	39.7	34.8	24.4	13.3	5.9	3.0	2.0	1.8	2.1	2.8	24	39.7	1.8	23.4
5	0	3.9	4.2	3.7	3.8	4.4	5.3	5.7	5.4	6.1	5.5	4.9	4.2	3.2	2.6	2.6	3.4	3.4	6.0	12.5	16.4	22.1	17.5	13.3	7.8	24	22.1	2.6	7.0
6	0	6.2	6.9	7.4	7.1	7.5	8.8	10.6	11.7	11.2	11.3	13.4	11.2	8.6	7.9	9.3	10.6	10.9	13.8	17.2	20.6	22.2	23.1	23.5	23.0	24	23.5	6.2	12.7
7	0	23.2	25.9	28.4	33.9	34.6	38.7	24.6	12.2	9.5	8.0	6.9	7.1	8.8	10.6	7.3	9.1	15.0	13.4	10.7	9.4	7.1	6.5	5.6	5.2	24	38.7	5.2	15.1
8	0	4.1	4.1	5.0	5.9	5.9	5.3	4.8	5.3	7.2	10.3	11.2	9.8	7.7	5.9	9.0	6.4	4.5	5.0	4.4	6.4	5.6	4.8	4.9	24	11.2	4.1	6.2	
9	0	5.2	4.8	4.9	5.3	5.3	5.4	6.7	5.7	6.2	7.1	6.4	8.1	6.1	6.5	6.7	6.7	9.3	10.3	11.1	11.5	11.4	11.8	12.9	13.6	24	13.6	4.8	7.9
10	0	13.8	14.6	14.1	12.2	12.8	15.0	13.0	9.9	10.1	8.6	8.4	6.7	4.6	4.6	4.0	3.7	3.6	4.8	9.8	14.9	24.4	25.2	25.7	29.9	24	29.9	3.6	12.3
11	0	26.8	25.6	21.6	17.9	11.3	7.9	8.8	13.0	7.3	4.0	5.2	4.9	2.4	5.7	9.4	10.4	10.7	13.4	14.4	20.1	28.3	29.1	28.4	26.1	24	29.1	2.4	14.7
12	0	25.0	7.3	1.1	1.0	1.1	0.8	0.9	1.5	2.2	3.2	3.4	4.2	4.6	5.1	5.5	5.7	6.4	7.4	8.7	8.9	7.3	6.3	5.9	5.7	24	25.0	0.8	5.4
13	0	7.9	10.3	13.2	14.6	15.2	16.3	17.6	15.6	15.8	14.4	13.4	11.8	9.9	8.7	9.6	10.9	13.3	16.5	10.5	8.4	6.9	3.8	4.1	5.7	24	17.6	3.8	11.4
14	0	8.0	11.0	11.6	11.4	12.3	13.2	13.3	13.9	14.2	12.7	4.9	2.2	2.9	3.5	3.9	4.1	4.2	4.6	8.7	12.3	13.2	12.8	12.2	24	14.2	2.2	9.3	
15	0	11.8	10.7	9.0	8.0	9.6	9.3	7.8	9.9	11.0	11.3	10.2	9.5	8.4	6.7	4.8	4.2	5.1	6.0	6.3	6.4	6.5	6.2	5.5	5.5	24	11.8	4.2	7.9
16	0	5.0	3.4	3.7	4.0	4.6	5.4	5.2	5.8	4.3	1.8	0.8	0.7	0.7	0.9	0.9	1.5	2.7	5.6	13.3	17.6	25.8	22.4	21.9	24	25.8	0.7	7.5	
17	0	19.4	16.6	14.1	11.7	8.5	7.6	6.3	8.4	13.7	10.8	5.0	2.1	1.5	2.4	2.6	2.4	2.6	3.7	6.2	7.2	8.4	12.0	18.8	24	23.0	1.5	9.0	
18	0	26.0	31.5	37.1	31.2	31.5	33.1	31.5	29.1	29.0	27.0	18.8	10.9	9.0	7.0	7.5	8.9	10.0	11.1	12.4	9.7	6.3	4.2	3.7	3.3	24	37.1	3.3	17.9
19	0	4.2	5.5	6.0	6.4	6.9	6.9	7.0	7.2	6.5	5.7	5.5	4.7	3.9	3.7	4.3	4.3	5.3	6.4	7.5	7.8	5.5	5.9	5.4	24	7.8	3.7	5.9	
20	0	6.0	6.2	5.7	5.3	4.8	4.5	4.3	4.0	3.6	1.9	1.6	1.2	1.6	3.0	4.8	5.4	6.4	7.4	5.6	9.1	11.0	13.7	13.6	9.9	24	13.7	1.2	5.9
21	0	10.7	10.9	11.1	10.8	10.9	10.8	10.2	9.2	8.9	9.4	8.4	7.6	7.5	6.7	6.0	6.3	9.8	13.2	14.9	19.7	20.7	25.7	34.3	40.0	24	40.0	6.0	13.5
22	0	32.8	45.2	69.0	37.3	31.7	45.9	41.2	51.4	34.0	30.1	28.8	30.3	33.2	38.0	39.6	43.9	10.6	7.6	6.9	6.5	7.1	8.5	8.3	24	69.0	6.5	29.0	
23	0	8.5	6.8	6.8	6.8	6.8	5.6	5.5	5.6	5.3	4.5	3.8	4.0	3.9	3.6	4.1	4.3	5.7	8.4	9.7	9.4	9.6	9.9	11.2	12.2	24	12.2	3.6	6.8
24	0	10.3	9.6	9.6	10.0	10.1	10.4	9.6	9.1	8.0	7.2	7.1	7.0	7.1	5.2	4.5	5.4	3.7	3.6	4.6	6.4	7.8	8.5	10.3	12.1	24	12.1	3.6	7.8
25	0	15.2	18.6	20.2	21.8	24.8	21.2	2.5	3.0	3.4	3.4	3.8	4.0	5.3	6.0	6.4	5.8	6.3	7.4	8.5	8.7	8.3	9.5	10.9	11.5	24	24.8	2.5	9.9
26	0	15.9	8.9	8.6	8.8	7.0	6.4	5.9	4.9	4.2	5.3	5.0	2.4	2.7	3.4	2.9	3.6	3.4	4.3										

		PM <sub>2.5</sub> - COURTICE																											
		March 2015																											
		(µg/m <sup>3</sup> )																											
Hour																													
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	0	46.0	40.5	37.1	51.1	30.7	27.0	25.2	25.8	26.6	19.1	11.5	9.4	10.8	12.9	12.9	10.6	13.2	16.9	20.4	21.5	26.1	37.8	34.5	34.1	24	51.1	9.4	25.1
2	0	24.3	24.7	27.7	29.3	32.2	34.2	35.0	31.6	25.9	13.2	10.0	4.6	3.5	2.7	2.2	1.8	1.7	1.6	2.3	3.5	4.2	6.4	9.8	10.0	24	35.0	1.6	14.3
3	0	10.6	13.6	13.7	16.8	22.2	29.2	27.5	27.1	28.2	3.9	2.4	1.9	2.0	3.4	3.1	4.3	4.6	4.8	5.2	5.4	5.3	6.5	7.3	10.4	24	29.2	1.9	10.8
4	0	12.2	13.7	12.7	9.4	8.1	10.0	10.9	15.9	19.1	21.1	A	A	A	6.3	7.0	7.4	6.3	6.4	5.5	5.8	7.2	9.0	8.2	6.3	21	21.1	5.5	9.9
5	0	5.0	5.1	4.3	4.5	5.1	6.4	7.5	7.8	7.8	6.0	1.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	2.0	3.6	4.3	4.8	8.5	11.2	24	11.2	0.2	4.0
6	0	12.2	12.5	11.3	10.8	10.3	10.0	11.9	12.0	9.2	6.7	3.7	3.2	4.1	4.7	4.1	4.1	7.0	8.5	6.7	7.9	9.7	12.0	13.0	14.1	24	14.1	3.2	8.7
7	0	15.2	16.1	18.0	18.6	19.1	20.3	21.0	22.6	21.6	21.3	23.3	22.9	20.1	19.1	21.6	23.1	24.3	25.0	30.0	33.1	39.5	55.7	70.1	78.8	24	78.8	15.2	28.4
8	0	74.3	67.0	56.4	52.9	57.7	56.5	60.3	38.0	10.4	1.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.1	9.3	15.6	31.6	38.5	37.7	24	74.3	0.2	25.5
9	0	36.2	40.9	51.7	40.6	37.0	24.7	13.3	15.2	6.7	2.8	7.1	10.2	13.8	16.2	16.7	11.4	10.7	10.5	12.8	9.8	10.3	11.4	16.3	22.1	24	51.7	2.8	18.7
10	0	24.3	28.0	28.3	31.8	38.2	49.3	53.9	68.3	53.3	27.9	20.5	16.0	17.7	17.6	20.1	17.7	15.6	15.7	19.9	24.8	25.3	23.7	26.5	28.3	24	68.3	15.6	28.9
11	0	35.3	39.7	52.2	68.5	66.3	58.6	45.7	35.5	23.7	9.7	2.7	0.3	0.2	0.2	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	24	68.5	0.2	18.4
12	0	0.2	0.2	0.2	0.5	0.6	0.5	1.3	1.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	1.8	3.9	6.3	11.4	18.8	16.2	18.1	24	18.8	0.2	3.5
13	0	24.2	15.1	12.5	8.2	7.6	6.1	5.0	3.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	2.1	3.5	4.3	5.1	4.8	4.1	3.5	24	24.2	0.2	4.6
14	0	4.0	5.8	15.0	20.4	14.7	16.2	12.9	10.2	8.7	12.2	11.5	8.3	8.5	4.7	1.9	11.9	12.5	5.6	6.0	1.0	0.2	0.2	0.2	0.2	24	20.4	0.2	8.0
15	0	0.2	0.8	0.2	0.7	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.4	0.2	0.4	0.9	2.1	3.1	6.7	10.9	12.4	14.1	14.2	15.4	24	15.4	0.2	3.5
16	0	21.9	28.2	23.3	20.5	22.6	18.8	13.7	11.6	12.6	8.8	7.0	7.9	8.5	8.7	9.2	24.1	34.7	27.7	24.3	29.4	38.2	38.2	40.9	44.2	24	44.2	7.0	21.9
17	0	46.0	47.8	35.4	25.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	24	47.8	0.2	6.6
18	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	24	2.5	0.2	0.3
19	0	4.0	2.4	2.3	2.0	2.2	3.9	2.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.3	0.2	0.2	0.7	24	4.0	0.2	1.0	
20	0	0.2	0.2	0.3	0.9	1.4	0.8	0.3	0.8	2.8	5.3	5.2	3.5	4.1	5.2	5.8	6.4	6.0	6.9	11.0	16.4	19.3	19.4	12.2	13.3	24	19.4	0.2	6.1
21	0	14.3	14.6	15.1	14.5	15.1	15.9	23.2	30.4	32.2	33.9	38.0	41.9	1.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	1.4	2.1	2.0	24	41.9	0.2	12.4
22	0	2.1	3.0	3.3	2.7	3.5	3.7	3.5	2.0	0.9	1.5	0.8	0.6	0.3	0.2	0.2	0.2	0.5	1.0	1.6	2.8	3.4	3.7	3.9	4.5	24	4.5	0.2	2.1
23	0	2.9	1.3	4.8	3.1	3.3	2.6	1.2	0.5	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	1.8	3.4	5.4	6.6	6.1	6.1	5.6	5.1	24	6.6	0.2	2.6
24	0	4.1	4.3	4.5	5.4	5.1	5.2	5.3	3.6	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.4	0.2	0.9	3.0	5.4	9.0	24	9.0	0.2	3.0	
25	0	4.9	6.4	5.9	5.8	5.5	5.6	5.6	6.8	7.0	5.6	3.7	3.1	3.6	7.7	10.6	13.4	16.8	19.0	21.0									

		PM <sub>2.5</sub> - Rundle Road																											
		January 2015																											
		(µg/m <sup>3</sup> )																											
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	5.5	17.5	31.2	11.8	3.6	3.8	4.4	5.1	5.3	5.1	6.0	10.2	13.0	10.4	6.0	5.6	6.1	6.0	5.9	6.3	7.1	12.7	18.1	18.1	24	31.2	3.6	9.4	
2	8.0	8.3	7.6	4.9	1.1	1.2	1.4	2.3	1.8	3.6	2.0	1.4	1.6	1.8	2.1	2.3	2.9	4.0	5.4	7.2	10.1	9.5	7.7	5.3	24	10.1	1.1	4.3	
3	5.8	5.1	5.8	4.7	3.6	3.2	3.1	3.1	5.9	7.5	8.5	8.0	9.5	12.6	23.5	26.1	13.0	14.0	21.5	16.8	13.9	6.9	5.0	5.9	24	26.1	3.1	9.7	
4	2.6	3.7	4.0	3.3	2.4	1.7	1.7	1.5	3.4	2.0	3.2	1.4	0.8	4.1	2.1	1.5	1.5	5.0	5.3	5.5	5.4	6.8	3.6	1.0	24	6.8	0.8	3.1	
5	2.0	2.1	2.0	2.2	2.2	2.3	3.5	2.3	3.1	3.5	2.4	4.6	2.3	2.4	2.5	2.6	7.2	11.8	3.0	2.9	3.7	3.6	4.8	5.2	24	11.8	2.0	3.5	
6	4.1	4.5	5.7	5.7	6.3	6.6	7.6	12.0	20.2	15.9	12.2	33.4	32.9	56.0	9.8	9.1	10.9	6.7	5.7	9.8	9.5	6.8	6.1	6.2	24	56.0	4.1	12.7	
7	6.6	4.4	4.6	3.9	2.3	2.8	3.2	5.0	5.8	5.6	5.7	5.7	5.5	4.5	4.1	3.7	5.0	5.8	18.5	7.7	13.2	12.3	3.5	6.3	24	18.5	2.3	6.1	
8	5.4	4.4	3.1	2.4	2.0	2.0	2.3	4.0	4.7	6.0	8.4	19.7	5.0	26.8	15.3	7.7	35.5	5.8	3.0	3.5	3.2	3.0	3.2	24	35.5	2.0	7.5		
9	5.6	5.0	6.1	6.6	7.1	7.8	8.2	9.3	10.7	12.8	10.1	7.8	2.0	1.2	2.4	1.2	7.5	3.0	2.5	3.2	4.5	4.5	4.2	3.9	24	12.8	1.2	5.7	
10	3.6	3.5	3.9	4.7	4.2	4.5	4.9	5.1	5.5	6.6	11.4	19.1	9.7	9.1	63.6	2.6	2.5	3.3	4.1	4.1	5.0	6.0	6.7	8.8	24	63.6	2.5	8.4	
11	10.1	11.1	11.6	11.8	11.0	9.7	9.9	15.8	17.9	26.9	40.6	15.0	7.0	5.9	6.3	5.9	5.8	5.7	5.9	6.2	6.6	6.7	6.7	7.1	24	40.6	5.7	11.1	
12	9.3	12.5	15.9	17.9	21.0	21.8	22.5	52.1	88.3	63.1	22.3	23.9	21.0	8.7	3.3	2.9	3.4	3.1	2.2	1.6	1.8	1.6	1.9	2.1	24	88.3	1.6	17.7	
13	2.7	3.3	3.7	3.8	3.9	4.2	4.7	6.3	7.7	5.5	3.6	3.2	3.1	3.0	3.1	3.3	4.0	24.5	12.4	11.0	8.5	8.7	5.8	4.7	24	24.5	2.7	6.0	
14	4.7	5.0	5.0	4.3	4.9	5.6	6.3	7.2	7.5	7.0	7.3	9.0	11.4	13.7	4.9	5.8	9.2	33.6	28.1	34.5	19.6	19.3	19.1	26.5	24	34.5	4.3	12.5	
15	20.8	18.7	20.9	20.0	20.9	21.9	25.8	26.6	25.0	21.6	27.5	72.7	54.6	28.5	25.4	48.3	37.3	23.0	14.6	13.0	13.5	15.4	18.9	23.7	24	72.7	13.0	26.6	
16	28.1	30.9	34.6	41.3	26.6	1.8	1.5	1.6	2.5	2.6	2.7	2.7	2.3	2.4	2.1	2.1	2.4	3.5	18.5	4.9	17.6	4.4	4.5	6.7	24	41.3	1.5	10.3	
17	6.1	6.0	5.9	3.7	2.8	2.8	2.7	3.2	4.1	2.8	1.6	1.4	1.9	4.3	4.1	9.1	8.3	6.2	7.4	7.3	8.3	10.2	11.3	12.2	24	12.2	1.4	5.6	
18	17.6	8.5	5.1	4.4	4.3	4.4	5.3	6.4	13.6	17.1	14.4	12.0	10.0	12.4	11.7	10.2	10.0	10.7	11.7	14.0	17.4	5.4	2.1	2.3	24	17.6	2.1	9.6	
19	2.1	1.8	1.9	1.7	2.3	4.0	2.7	3.7	4.5	3.1	4.2	2.9	2.9	2.9	3.6	3.6	5.7	5.7	8.5	9.8	8.9	13.7	5.9	4.6	24	13.7	1.7	4.5	
20	4.3	4.6	4.4	5.0	5.1	5.3	5.5	5.9	6.5	6.1	5.2	3.9	3.8	4.2	3.5	3.7	11.9	7.8	4.0	5.3	5.8	7.1	6.8	6.6	24	11.9	3.5	5.5	
21	6.1	11.0	7.1	5.3	6.2	5.3	4.6	5.1	5.7	5.9	6.6	9.0	6.1	6.8	8.6	8.1	33.8	16.5	10.7	8.8	7.9	8.6	9.6	8.7	24	33.8	4.6	8.8	
22	6.2	4.4	5.1	4.8	5.7	6.4	6.2	7.8	7.1	5.9	5.1	7.4	20.7	12.8	6.8	5.6	5.2	9.6	13.1	12.2	10.0	14.3	11.3	9.3	24	20.7	4.4	8.5	
23	11.0	10.1	10.3	11.6	11.0	9.1	11.1	16.3	52.7	29.7	11.9	R	18.2	10.2	C	7.8	8.7	9.6	12.2	13.5	13.1	15.4	15.7	16.5	22	52.7	7.8	14.8	
24	20.8	24.3	27.5	28.5	28.6	31.7	30.9	24.6	22.7	18.7	19.1	27.9	36.1	41.0	42.6	41.2	41.8	38.2	35.9	35.0	30.7	23.9	17.1	2.0	24	42.6	2.0	28.8	
25	0.5	0.6	0.8	1.5	2.5	2.9	3.1	3.4	3.3	2.6	1.9	1.5	1.5	1.5	1.6	1.8	2.5	3.3	3.5	3.5	3.5	3.2	4.1	3.3	24	4.1	0.5	2.4	
26	2.8	3.0	2.9	2.8	2.6	2.4	2.3	2.7	3.2	3.1	2.7	2.2	2.2	2.7	2.5	2.2	2.6	2.6	2.2	2.0	2.2	2.5	2.6	2.4	24	3.2	2.0	2.6	
27	2.4	2.5	2.4	2.5	2.5	2.7	3.1	3.8	4.1	3.3	3.1	3.2	2.5	2.9															

		PM <sub>2.5</sub> - Rundle Road																											
		February 2015																											
		(µg/m <sup>3</sup> )																											
Hour																													
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	0	28.2	26.6	5.8	4.4	5.0	6.3	5.0	3.4	2.4	2.1	2.1	2.2	2.3	2.4	2.9	2.7	2.7	3.1	3.1	3.2	2.8	2.7	2.5	24	28.2	2.1	5.3	
2	0	2.6	2.7	2.6	2.6	2.3	2.2	2.5	2.5	2.9	3.7	3.8	3.6	2.8	2.5	3.1	4.2	3.7	11.4	8.9	5.8	19.2	12.3	8.1	5.7	24	19.2	2.2	5.1
3	0	5.4	6.8	3.6	2.9	3.6	5.3	5.1	6.1	7.2	7.7	19.8	37.8	12.3	6.9	5.9	35.4	23.2	12.4	4.3	6.5	7.5	10.9	14.6	15.3	24	37.8	2.9	11.1
4	0	14.6	16.4	19.4	21.8	21.8	24.8	33.2	33.1	37.3	44.3	77.9	28.0	26.3	30.3	34.9	34.2	23.1	13.3	4.5	3.0	2.4	2.4	2.2	2.4	24	77.9	2.2	23.0
5	0	3.1	3.3	2.9	3.1	3.2	4.4	7.6	4.6	4.4	3.9	2.7	2.9	2.7	2.4	2.2	2.8	5.9	4.8	16.4	11.8	8.8	11.4	8.0	6.5	24	16.4	2.2	5.4
6	0	7.7	7.8	8.0	7.9	8.6	10.0	11.3	13.3	13.0	13.9	15.7	16.1	15.5	15.9	16.9	17.3	17.3	18.7	20.4	22.3	22.4	23.0	24.1	22.4	24	24.1	7.7	15.4
7	0	23.9	28.7	32.4	35.1	36.7	35.2	24.5	12.9	9.9	10.6	7.4	6.8	7.2	8.1	7.4	9.3	7.4	9.0	8.9	7.3	5.8	5.4	4.5	3.7	24	36.7	3.7	14.5
8	0	4.1	3.8	4.3	4.8	4.8	4.2	3.9	4.5	5.5	7.3	7.6	7.0	5.4	4.5	4.3	4.1	4.2	4.0	3.8	3.9	4.3	4.1	4.1	24	7.6	3.8	4.7	
9	0	3.6	3.3	3.2	3.6	3.9	4.6	5.3	5.2	5.4	4.8	5.0	4.9	5.5	5.9	6.3	6.5	7.8	8.8	8.2	9.4	9.1	8.5	9.2	10.6	24	10.6	3.2	6.2
10	0	10.3	10.2	10.4	9.8	10.5	10.9	10.7	9.4	9.6	7.7	7.7	6.1	5.2	5.5	5.8	5.4	5.8	23.7	36.3	30.5	21.3	19.3	20.0	21.9	24	36.3	5.2	13.1
11	0	17.7	19.1	17.8	15.6	10.1	6.8	6.8	7.8	7.1	4.8	6.1	8.2	8.2	8.8	11.5	16.8	16.0	18.0	21.6	27.7	35.0	36.0	31.0	28.6	24	36.0	4.8	16.1
12	0	28.7	7.5	2.4	2.1	2.2	2.1	2.6	2.4	3.7	6.7	3.5	3.9	3.6	4.0	6.1	5.4	3.6	3.9	6.8	9.3	4.1	3.2	3.3	3.1	24	28.7	2.1	5.2
13	0	3.0	4.0	5.2	6.9	7.5	8.7	11.2	11.0	12.1	14.2	7.4	10.4	9.2	15.5	18.6	89.0	8.4	7.8	7.6	4.5	3.9	2.7	3.0	3.6	24	89.0	2.7	11.5
14	0	4.7	6.3	7.2	7.6	8.9	10.0	10.0	11.6	12.4	11.3	6.0	2.6	2.7	3.2	3.5	3.7	4.1	6.5	8.0	8.2	7.9	7.9	8.3	24	12.4	2.6	6.9	
15	0	6.5	6.0	6.3	6.6	5.6	5.6	6.2	6.4	6.2	5.3	4.9	4.9	4.8	5.0	5.0	5.3	5.3	5.2	5.4	5.6	5.5	5.4	5.6	24	6.6	4.8	5.6	
16	0	5.0	5.2	5.2	5.5	5.5	6.0	6.1	13.5	10.3	22.3	2.2	2.4	2.5	2.0	2.6	3.7	53.2	49.4	6.3	34.7	13.9	9.5	8.4	13.5	24	53.2	2.0	12.0
17	0	9.6	8.9	8.7	8.3	5.9	5.4	4.5	5.0	5.9	4.9	4.8	4.4	3.9	90.8	8.5	32.4	53.0	2.8	3.5	3.8	4.3	6.3	7.8	9.7	24	90.8	2.8	12.6
18	0	10.8	15.2	16.4	15.3	18.7	18.3	20.8	21.6	25.7	20.8	17.2	25.4	17.8	6.2	20.1	35.6	99.8	5.0	5.1	3.9	2.7	2.0	1.7	1.7	24	99.8	1.7	17.8
19	0	2.0	2.3	2.8	2.7	3.3	3.4	3.3	3.4	3.2	2.6	2.3	4.2	2.9	3.2	3.5	3.6	4.2	4.7	7.7	5.0	6.2	5.1	4.7	24	7.7	2.0	3.7	
20	0	5.3	6.0	5.7	5.2	5.2	5.3	5.2	4.9	5.3	7.5	4.4	11.7	5.0	6.1	6.3	28.4	76.5	50.6	8.3	3.6	5.4	5.3	5.4	9.0	24	76.5	3.6	11.7
21	0	5.0	6.7	6.4	6.3	6.5	6.4	6.8	6.9	6.5	6.9	6.8	6.4	6.2	6.9	7.2	9.2	15.1	22.3	19.1	16.2	50.6	31.2	19.1	24	50.6	5.0	12.0	
22	0	19.1	23.4	24.8	22.1	23.9	24.2	24.9	26.8	32.1	32.4	97.2	192.9	229.3	48.9	20.8	21.6	5.3	4.1	3.5	3.1	3.3	5.5	3.8	3.8	24	229.3	3.1	37.4
23	0	4.1	3.6	3.5	3.4	4.1	3.4	6.5	3.7	3.7	5.3	3.1	4.1	3.0	4.5	4.8	4.0	5.2	10.3	6.5	7.2	8.2	8.0	9.9	24	10.3	3.0	5.3	
24	0	9.6	9.6	10.6	12.1	11.2	11.7	11.8	14.8	15.6	32.3	28.2	8.3	7.3	5.8	5.5	6.1	16.0	29.7	30.0	5.8	6.2	6.8	7.9	9.0	24	32.3	5.5	13.0
25	0	10.6	12.3	14.3	17.0	19.5	16.6	2.9	3.6	4.5	3.7	4.0	5.1	3.8	4.5	4.3	5.0	4.5	5.1	5.6	6.8	5.8	6.7	12.4	16.1	24	19.5	2.	

		PM <sub>2.5</sub> - Rundle Road																											
		March 2015																											
		(µg/m <sup>3</sup> )																											
Day	Hour	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Count	Maximum	Minimum	Average
1	38.4	40.7	34.9	46.3	29.4	22.8	23.7	24.0	25.0	18.3	12.7	9.2	10.0	12.6	12.9	10.1	11.2	13.4	16.1	16.9	21.4	28.8	27.0	26.3	24	46.3	9.2	22.2	
2	25.0	22.0	28.9	30.8	35.1	39.3	42.4	38.7	29.8	15.0	11.0	5.7	4.0	3.5	2.8	2.5	2.3	2.3	2.6	3.4	6.8	8.5	8.2	6.4	24	42.4	2.3	15.7	
3	5.8	5.2	6.1	8.3	10.0	14.4	18.7	21.4	20.7	3.9	3.2	2.9	3.7	5.3	5.0	6.4	6.3	6.0	6.6	6.8	7.6	8.2	8.8	11.3	24	21.4	2.9	8.4	
4	13.0	11.0	10.5	8.7	8.1	9.6	9.6	14.2	22.3	23.6	19.6	19.0	12.2	A	9.0	9.4	8.7	8.3	6.9	6.6	6.5	6.8	6.4	5.3	23	23.6	5.3	11.1	
5	5.0	4.5	4.2	4.4	4.7	5.4	6.3	6.9	6.8	5.1	4.9	5.6	4.1	4.6	5.9	6.3	7.2	6.3	6.3	8.0	7.0	7.2	8.7	9.7	24	9.7	4.1	6.0	
6	10.4	9.7	8.6	8.7	9.1	9.3	10.8	12.6	13.7	13.1	22.0	28.6	72.3	7.2	6.0	6.1	6.9	7.7	6.4	6.9	7.8	10.0	12.0	13.0	24	72.3	6.0	13.3	
7	14.7	16.6	18.1	18.9	19.5	20.5	21.8	23.3	24.5	26.7	30.6	30.8	28.1	26.3	27.4	28.7	28.0	27.8	31.3	36.1	42.2	47.8	54.5	68.8	24	68.8	14.7	29.7	
8	63.5	51.9	53.2	48.7	57.4	56.4	57.9	45.5	15.1	3.5	3.2	2.4	2.1	4.6	2.4	2.1	2.1	3.1	7.0	13.4	18.5	32.6	42.2	41.0	24	63.5	2.1	26.3	
9	41.6	48.7	52.8	36.9	32.4	20.6	20.4	26.9	156.0	5.0	6.9	10.4	29.7	23.9	27.8	66.6	68.1	11.9	9.4	8.1	8.6	9.3	12.4	17.1	24	156.0	5.0	31.3	
10	21.0	26.5	30.0	32.3	37.0	41.1	43.9	47.4	51.5	42.4	27.7	21.4	29.4	23.6	25.4	24.8	22.0	21.4	24.1	28.9	30.2	29.5	30.3	32.8	24	51.5	21.0	31.0	
11	38.3	43.1	56.0	71.5	70.9	62.9	53.6	39.5	29.6	15.9	9.9	5.9	3.9	2.3	1.7	4.2	11.2	1.5	1.4	1.7	2.0	2.3	2.1	2.2	24	71.5	1.4	22.2	
12	2.3	2.3	2.8	2.7	2.6	3.1	3.5	3.7	2.2	2.1	1.9	1.4	1.3	1.3	4.9	6.8	7.8	7.8	9.0	11.7	14.7	14.2	21.5	24	21.5	1.3	5.6		
13	19.0	19.2	15.7	11.0	8.8	7.7	7.0	9.3	2.9	2.1	1.9	2.7	3.4	3.2	3.3	3.7	5.1	6.7	8.9	8.9	8.7	8.5	7.5	24	19.2	1.9	7.4		
14	8.2	16.0	21.8	22.4	18.5	24.8	20.9	14.6	14.1	13.1	11.4	8.2	5.8	7.0	7.6	15.8	18.7	12.8	14.0	8.0	2.8	2.4	2.6	3.1	24	24.8	2.4	12.3	
15	5.1	7.0	5.5	5.6	5.2	3.9	3.7	3.5	3.1	3.1	3.3	3.1	2.8	3.0	3.0	3.0	5.9	8.1	9.3	16.1	15.3	14.4	17.3	20.3	24	20.3	2.8	7.1	
16	21.2	28.8	25.2	22.2	27.0	25.3	21.5	19.2	16.6	10.1	9.6	10.1	10.9	12.4	15.8	29.0	35.9	29.0	26.8	29.9	33.8	38.6	43.6	24	43.6	9.6	24.4		
17	40.1	40.4	28.0	15.2	2.0	0.9	2.3	2.6	0.6	1.4	1.9	1.4	1.4	1.4	1.4	1.5	1.8	2.2	2.5	2.5	2.2	2.2	2.1	24	40.4	0.6	6.7		
18	2.1	2.1	2.2	2.4	2.4	2.7	3.1	2.5	1.6	1.5	1.4	1.4	1.5	1.4	1.4	1.4	1.3	1.4	1.7	2.3	2.7	3.5	3.8	4.2	24	4.2	1.3	2.2	
19	6.2	7.4	6.5	6.1	5.9	5.6	4.7	3.2	2.8	1.7	1.4	1.6	1.8	2.1	2.3	2.3	2.3	3.6	4.7	5.9	9.0	12.0	8.2	24	12.0	1.4	4.6		
20	3.2	3.5	4.9	5.2	4.9	5.0	5.7	7.1	5.9	6.7	7.4	6.5	6.8	7.2	7.3	8.8	8.6	11.7	18.7	18.9	24.6	22.2	18.3	17.1	24	24.6	3.2	9.8	
21	18.3	17.6	17.5	16.9	17.8	17.8	23.3	30.6	35.0	39.9	43.4	49.0	5.8	1.3	1.6	2.1	2.0	2.1	3.0	3.6	3.8	4.7	5.2	5.0	24	49.0	1.3	15.3	
22	5.5	5.6	5.8	5.1	6.2	6.3	6.3	4.9	3.9	4.2	4.3	4.2	4.2	4.7	3.5	3.9	4.2	4.7	5.3	5.3	5.5	8.1	7.4	24	8.1	3.5	5.2		
23	6.3	3.3	3.4	3.7	3.6	3.8	3.9	3.3	3.5	4.1	4.3	5.2	4.3	4.1	4.5	4.2	6.5	7.8	8.5	8.9	8.7	9.4	7.8	24	9.4	3.3	5.4		
24	6.1	6.0	6.2	6.1	5.5	5.5	6.2	5.5	4.1	3.8	4.0	5.3	5.3	5.0	4.5	4.6	4.0	4.3	6.0	9.1	10.4	13.3	12.3	24	13.3	3.8	6.4		
25	8.8	9.1	8.4	8.4	8.0	8.6	9.2	10.5	10.1	9.1	8.7	9.5	12.1	13.7	15.1	17.0	16.6	18.9	29.0	29.2	30.3	28.0	29.3	24	30.3	8.0	15.7		
26	25.3	18.0	19.7	17.8	16.4	22.0	23.7	26.7	21.5	19.5	18.9	13.6	11.8	15.7	4.7	C	13.5	13.1	14.8	18.7	13.4	5.0	4.5	4.2	23	26.7	4.2	15.8	
27	4.0	4.0	3.6	3.9	2.6	2.1	2.1	2.2	2.6	3.1	2.8																		

**QUARTERLY AMBIENT AIR QUALITY MONITORING REPORT FOR THE DURHAM YORK ENERGY CENTRE – JANUARY TO MARCH 2015**

Appendix E Continuous Parameter Edit Logs  
May 13, 2015

**Appendix E CONTINUOUS PARAMETER EDIT LOGS**



EDIT LOG TABLE

#### **Examples of Acceptable Edit Actions:**

Add offset of

### Delete hours

## Zero Correction

### Slope Correction

#### **Manual data entry**

#### Invalidating span & zero check data

#### Invalidating data due to equipment problems

Invalidating data when instrumentation off-line

Marking data as out-of-range

### Marking data as out-of-range

EDIT LOG TABLE

#### Examples of Acceptable Edit Actions:

- Add offset of
- Delete hours
- Zero Correction
- Slope Correction
- Manual data entry for missing, but collected data
- Invalidating span & zero check data
- Invalidating data due to equipment malfunctions and power failures.
- Invalidating data when instrumentation off-line
- Marking data as out-of-range

EDIT LOG TABLE

## Examples of Acceptable Edit Actions

Add offset of

### Delete hours

## Zero Corrections

## Slope Correction

Manual data entry for missing, but collected data

## Invalidating span & zero check data

Invalidating data due to equipment malfunctions and power failures

#### Invalidating data when instrumentation off-line

### Marking data as out-of-range

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program						
Contact	Greg Crooks / Connie Lim / Tim Hung		Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com	
Station number:	N/A	Station Name:	Courtice WPCP Station				
Station address:	Courtice Water Pollution Control Plant	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON				
Pollutant or parameter:	Temperature	Instrument make & model:	Campbell Scientific Model HMP60	Serial Number:			
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15		Time Zone : EST	
Edit #	Edit date	Editor's Name	Edit Action	Starting Date (dd/mm/yyyy)	Hour (xx:xx)	Ending Date (dd/mm/yyyy)	Hour (xx:xx) Reason

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program						
Contact	Greg Crooks / Connie Lim / Tim Hung		Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com	
Station number:	N/A	Station Name:	Courtice WPCP Station				
Station address:	Courtice Water Pollution Control Plant	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON				
Pollutant or parameter:	Rainfall	Instrument make & model:	Texas Electronics TES255M	Serial Number:			
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15		Time Zone : EST	
Edit #	Edit date	Editor's Name	Edit Action	Starting Date (dd/mm/yyyy)	Hour (xx:xx)	Ending Date (dd/mm/yyyy)	Hour (xx:xx) Reason

Examples of Acceptable Edit Actions:

- Add offset of
- Delete hours
- Zero Correction
- Slope Correction
- Manual data entry for missing, but collected data
- Invalidating span & zero check data
- Invalidating data due to equipment malfunctions and power failures.
- Invalidating data when instrumentation off-line
- Marking data as out-of-range

## **EDIT LOG TABLE**

EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program						
Contact	Greg Crooks / Connie Lim / Tim Hung	Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com		
Station number:	N/A	Station Name:	Courtice WPCP Station				
Station address:	Courtice Water Pollution Control Plant	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON				
Pollutant or parameter:	Atmospheric Pressure	Instrument make & model:	Campbell Scientific Model CS106			Serial Number:	
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15			
	Edit #	Edit date	Editor's Name	Edit Action	Starting Date (dd/mm/yyyy)	Ending Date (dd/mm/yyyy)	Reason Hour (xx:xx)

### Examples of Acceptable Edit Actions

Add offset of

### Delete hours

## Zero Correction

## Slope Correction

### Manual data entry for missing, but

## Invalidating span & zero check data

Invalidating data due to equipment malfunctions and power failures.

## Invalidating data when instrumentation off-line

## Marking data as out-of-range

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program							
Contact	Lisa Heatherington	Phone:	N/A	E-mail:	Lisa.Hetherington@Durham.ca			
Station number:	N/A	Station Name:	Courtice WPCP Station					
Station address:	Courtice Water Pollution Control Plant	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON					
Pollutant or parameter:	Wind Speed/Wind direction	Instrument make & model:	N/A	Serial Number:				
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15	Time Zone : EST			
Edit #	Edit date	Editor's Name	Edit Action	Starting Date (dd/mm/yyyy)	Hour (xx:xx)	Ending Date (dd/mm/yyyy)	Hour (xx:xx)	Reason

Examples of Acceptable Edit Actions:

Add offset of

Delete hours

Zero Correction

Slope Correction

Manual data entry for missing, but collected data

Invalidating span &amp; zero check data

Invalidating data due to equipment malfunctions and power failures.

Invalidating data when instrumentation off-line

Marking data as out-of-range

## **EDIT LOG TABLE**

### Examples of Acceptable Edit Actions:

Add offset of

### Delete hours

## Zero Correction

### Slope Correction

Manual data entry for missing, but collected data

#### Invalidating span & zero check data

Invalidating data due to equipment malfunctions and power failures.

#### Invalidating data when instrumentation off-line

## Marking data as out-of-range

## **EDIT LOG TABLE**

#### Examples of Acceptable Edit Actions:

Add offset of

#### Invalidating span & zero check data

Add offset of  
Delete hours

Invalidate span & zero check data  
Invalidate data due to equipment malfunctions

Delete hours  
Zero Correction

Invalidating data due to equipment malfunction  
Invalidate data when instrumentation off-line

## Zero Correction

## Slope Correction

#### Marking data as out of range

EDIT LOG TABLE

### Examples of Acceptable Edit Actions

Add offset of

### Delete hours

## Zero Correction

## Slope Correction

Manual data entry for missing, but collected data

## Invalidating span & zero check data

Invalidating data due to equipment malfunctions and power failures.

#### In invalidating data when instrumentation off

### Marking data as out-of-range

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program								
Contact	Greg Crooks / Connie Lim / Tim Hung	Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com				
Station number:	N/A		Station Name:	Rundle Road Station					
Station address:	Rundle Road / Baseline Road		Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON					
Pollutant or parameter:	Temperature	Instrument make & model:		Campbell Scientific Model HMP60		Serial Number:			
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15					
Edit #	Edit date	Editor's Name	Edit Action	Starting		Ending	Reason		
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)		

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program								
Contact	Greg Crooks / Connie Lim / Tim Hung	Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com				
Station number:	N/A		Station Name:	Rundle Road Station					
Station address:	Rundle Road / Baseline Road		Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON					
Pollutant or parameter:	Rainfall	Instrument make & model:		Texas Electronic TE525M		Serial Number:			
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15					
Edit #	Edit date	Editor's Name	Edit Action	Starting		Ending	Reason		
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)		

Examples of Acceptable Edit Actions:

Add offset of

Delete hours

Zero Correction

Slope Correction

Manual data entry for missing, but collected data

Invalidate span &amp; zero check data

Invalidate data due to equipment malfunctions and power failures.

Invalidate data when instrumentation off-line

Marking data as out-of-range

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program							
Contact	Greg Crooks / Connie Lim / Tim Hung	Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com			
Station number:	N/A	Station Name:	Rundle Road Station					
Station address:	Rundle Road / Baseline Road	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON					
Pollutant or parameter:	Relative Humidity	Instrument make & model:	Campbell Scientific Model HMP60			Serial Number:		
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15				
Edit #	Edit date	Editor's Name	Edit Action	Starting	Ending	Reason		
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)	

## EDIT LOG TABLE

Project Name	Durham York Energy Centre Ambient Air Monitoring Program							
Contact	Greg Crooks / Connie Lim / Tim Hung	Phone:	905-944-7777	E-mail:	greg.crooks@stantec.com, connie.lim@stantec.com, tim.hung@stantec.com			
Station number:	N/A	Station Name:	Rundle Road Station					
Station address:	Rundle Road / Baseline Road	Emitter Address:	The Region of Durham, 605 Rossland Rd, Whitby, ON					
Pollutant or parameter:	Wind Speed/Wind Direction	Instrument make & model:	Met One Instruments Inc. Model 034B			Serial Number:		
Data edit period	Start date:	1-Jan-15	End date:	31-Mar-15				
Edit #	Edit date	Editor's Name	Edit Action	Starting	Ending	Reason		
				Date (dd/mm/yyyy)	Hour (xx:xx)	Date (dd/mm/yyyy)	Hour (xx:xx)	

Examples of Acceptable Edit Actions:

- Add offset of
- Delete hours
- Zero Correction
- Slope Correction
- Manual data entry for missing, but collected data
- Invalidating span & zero check data
- Invalidating data due to equipment malfunctions and power failures.
- Invalidating data when instrumentation off-line
- Marking data as out-of-range