



**Stantec Consulting Ltd.**  
100-401 Wellington Street West, Toronto ON M5V 1E7

August 6, 2015  
File: 160950528

**Attention: Mr. Greg Borchuk, P.Eng.**  
**Project Manager, EFW**  
**Waste Management Services**

The Regional Municipality of Durham  
605 Rossland Rd.,  
Whitby, ON L1N 6A3

Dear Mr. Borchuk,

**Reference: 2014 Annual Ambient Air Quality Monitoring Report for the Durham York Energy Centre  
– Addendum to Address MOECC Comments**

## **INTRODUCTION**

This letter provides an addendum to the 2014 Annual Ambient Air Quality Monitoring Report for the Durham York Energy Centre issued by Stantec Consulting Limited on May 13, 2015. This addendum addresses comments on the report from the Ministry of Environment and Climate Change (MOECC) provided in a letter from Dolly Goyette, Director, Central Region, dated July 14th, 2015. The MOECC comments are provided below in italics followed by the Stantec response.

### **MOECC COMMENT #1:**

*Please note the following for future reports: starting in 2015, the MOECC recommends that the Canadian Ambient Air Quality Standards (CAAQS) be used for 24-hour and annual PM<sub>2.5</sub>. As noted in Section 2.3, Air Quality Criteria, the 2015 CAAQS standard for 24-hours PM<sub>2.5</sub> is 28 µg/m<sup>3</sup> and the annual PM<sub>2.5</sub> standard is 10 µg/m<sup>3</sup>. The standards for NO<sub>x</sub> and SO<sub>2</sub> are under development with expected completion in 2015. Until the NO<sub>x</sub> and SO<sub>2</sub> standards are released, please continue to use Ontario's Ambient Air Quality Criteria (AAQC) for the contaminants.*

### **Stantec Response:**

This comment is acknowledged. Stantec is currently including these standards in the quarterly reports for 2015 and will also include them in the 2015 annual report.

### **MOECC COMMENT #2:**

Table 4-5 lists agricultural activities as a potential source contribution for the B(a)P exceedances occurring in January and February 2014. However, it is the ministry's opinion that agricultural activities would be negligible during this time of the year. We recommend that Table 4-5 of the report be revised by removing agricultural activities as potential sources for the B(a)P exceedances in January and February 2014.



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**Stantec Response:**

This comment is acknowledged. Agricultural activities were included in the table to cover the possibility of activities occurring on agricultural lands, but not specifically related to agriculture (e.g. residential combustion from a farmhouse, etc.). A revised version of Table 4-5 is included in this addendum.

**MOECC COMMENT #3**

*The Executive Summary states that the 2014 monitoring collected background air quality levels while the DYEC was under construction in 2014. We recommend adding a statement in the report that the 2014 monitoring also includes data during the commissioning phase for the criteria air contaminants.*

**Stantec Response:**

Please note that the Durham York Energy Centre was under construction throughout the 2014 calendar year. The facility did not begin receiving waste until February 9, 2015, followed by the commencement of waste processing on February 13, 2015. The commencement of waste processing included; operation of the boilers, air pollution control equipment, and Continuous Emissions Monitoring System (CEMS). Prior to the commencement of processing, there were no air emissions from the facility.

As discussed with MOECC staff, we will include the date that processing commenced in the 2015 Annual Report.

**MOECC COMMENT #4**

*Please revise the report to include the start date of the commissioning phase.*

**Stantec Response:**

As noted in our response to Comment #3 and discussed with MOECC staff, we will include the date that processing commenced in the 2015 Annual Report.



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## **CLOSURE**

This document entitled *2014 Annual Ambient Air Quality Monitoring Report for the Durham York Energy Centre – Addendum to Address MOECC Comments* was prepared by Stantec Consulting Ltd. for the account of The Regional Municipality of Durham. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec Consulting Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Regards,

**STANTEC CONSULTING LTD.**

A handwritten signature in black ink, appearing to read 'G. Crooks', written over a horizontal dashed line.

Gregory Crooks, M. Eng., P.Eng.  
Principal, Environmental Services  
Phone: (416) 598-7687  
Fax: (416) 596-6680  
Gregory.Crooks@stantec.com

c. Gio Anello, Region of Durham  
Lindsay Waller, Region of Durham  
Luis Carvalho, Region of York  
Seth Dittman, Region of York  
C. Lim, T. Hung, Stantec

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**Table 4-5 Source Contribution Analysis – 2014 B(a)P Exceedances (Revised)**

Date	Station	% above the MOECC B(a)P Criterion	Wind Direction	Potential Source Contributions
January 14, 2014	Rundle Road	42%	Northwest	Land use in this wind direction is mainly agricultural. Potential sources could be a residence with a poorly controlled combustion source operating.
February 4, 2014	Courtice WPCP	165%	North	Land use in this direction is primarily agricultural with Highway 401 and a CN rail line also located to the north. Potential sources could be transportation emissions.
February 8, 2014	Rundle Road	476%	Northwest	Land use in this wind direction is mainly agricultural. Potential sources could be a residence with a poorly controlled combustion source operating.
February 28, 2014	Rundle Road	34%	Northwest	Land use in this wind direction is mainly agricultural. Potential sources could be a residence with a poorly controlled combustion source operating.
March 24, 2014	Courtice WPCP	19%	West/ Northwest	Land use in this direction is primarily agricultural at Courtice and a mix of agricultural and commercial at Rundle. Potential sources could be agricultural activities or a nearby business or residence with a poorly controlled combustion source operating.
March 24, 2014	Rundle Road	102%	West/ Northwest	
June 28, 2014	Courtice WPCP	47%	East	Land use in this direction is primarily agricultural with some commercial usage (including the Courtice WPCP). Potential sources could be agricultural activities or a nearby poorly controlled commercial / residential combustion source operating.