

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

Tel: (416) 596-6686 Fax: (416) 596-6680

February 9, 2017 File: 160950528

Attention: Ms. Tara Wilcox

Supervisor, Waste Management Services (Compliance)

The Regional Municipality of Durham 1835 Energy Drive Clarington, ON L1E 2R2

Dear Ms. Wilcox,

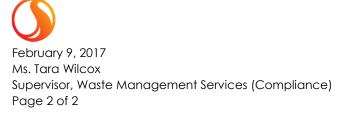
Reference: Q4 2016 Ambient Air Quality Monitoring Report for the Durham York Energy Centre

Please find attached with this letter the Q4 2016 quarterly report for the Durham York Energy Centre (DYEC).

The quarterly reports for the DYEC monitoring are prepared to present monitoring data to the MOECC. The MOECC requires that several statistics, including maximum levels, be presented in these reports, but does not require 98th percentile values to be included in quarterly reports. Regional Council has requested that 98th percentile PM_{2.5} data also be provided along with the quarterly reports, which is provided in Table 1 below. A comparison to the Canadian Ambient Air Quality Standard (CAAQS) for PM_{2.5} requires averaging the 98th percentile daily average levels in each of three consecutive years.

Explicit comparison to the 24-hour PM_{2.5} CAAQS requires annual data based on calendar year. With the completion of monitoring in 2016, three calendar years of monitoring data are now available (2014-2016) and are presented in Table 1 for comparison to the 24-hour PM_{2.5} CAAQS. For this time period, both ambient monitoring stations measured levels below the 24-hour PM_{2.5} CAAQS of 28 μ g/m³.

Annual average $PM_{2.5}$ concentrations are provided in Table 2. An explicit comparison to the annual $PM_{2.5}$ CAAQS also requires annual data based on three consecutive calendar years, which are now available. Both ambient monitoring stations measured 3-year annual average concentrations below the annual $PM_{2.5}$ CAAQS of 10 μ g/m³ for 2014 - 2016.



Reference: Q4 2016 Ambient Air Quality Monitoring Report for the Durham York Energy Centre

Table 1 Summary of the 98th Percentile Daily Average PM_{2.5} Concentrations (µg/m³) for 2014-2016

Period	Courtice Monitoring Station	Rundle Road Monitoring Station
2014	22.3	21.1
2015	27.3	28.4
2016	26.4	27.3
Three Year Average (2014 - 2016)	25.3	25.6

Table 2 Summary of the Annual Average PM_{2.5} Concentrations (µg/m³) for 2014-2016

Period	Courtice Monitoring Station	Rundle Road Monitoring Station
2014	8.6	8.5
2015	7.7	9.5
2016	6.8	9.6
Three Year Average (2014 - 2016)	7.7	9.2

Regards,

STANTEC CONSULTING LTD.

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 Greg Borchuk, Region of Durham Lyndsay Waller, Region of Durham Luis Carvalho, Region of York Seth Dittman, Region of York C. Lim, T. Hung, Stantec

 $be \cd1215-f01\work_group\c1609\c328\planning\report\final\c3216\c4\c3216\c4\c3216\c4\c3216\c3$