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November 7, 2016  
File: 160950528

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

The Regional Municipality of Durham  
605 Rossland Road  
Whitby, Ontario L1N 6A3

Dear Mr. Borchuk,

**Reference: Q3 2016 Ambient Air Quality Monitoring Report for the Durham York Energy Centre – Crago Road Station**

Please find attached with this letter the Q3 2016 quarterly report for the Durham York Energy Centre (DYEC) Crago Road Station.

This quarterly report provides a summary of the measurements collected at this station during July to September 2016 (calendar Quarter 3 of 2016). All equipment operated well during this measurement period.

The Ministry of Environment and Climate Change (MOECC) has requested that, starting for Q2 2016, the data presented in the appendices of the Courtice/Rundle Road Station quarterly monitoring reports be presented in ppb (parts per billion) rather than  $\mu\text{g}/\text{m}^3$  (micrograms per cubic metre). For consistency, this convention has also been applied to the Crago Road Station Q3 2016 report.

Regional Council has requested that 98<sup>th</sup> percentile  $\text{PM}_{2.5}$  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  $\text{PM}_{2.5}$  requires averaging the 98<sup>th</sup> percentile daily average levels in each of three consecutive calendar years. The values presented in Table 1 corresponds to the 98<sup>th</sup> percentile over the first year of monitoring at this station (November 2014 to October 2015) and the first 8-months (November 2015 to September 2016) of the second year. An additional 1-year and 1-month of data will be required in order to provide a comparison to the current CAAQS criteria of  $28 \mu\text{g}/\text{m}^3$ . Please note that for explicit comparison to the CAAQS for  $\text{PM}_{2.5}$ , use of annual data based on calendar years is required, rather than the annual periods based on the start of the monitoring as presented in Table 1. Also, to be statistically significant, a minimum of 2-years of data is required for an initial comparison, with 3-years of data required for explicit comparison. Therefore, the data in Table 1 should be considered preliminary and is included to provide an initial indication of ambient  $\text{PM}_{2.5}$  levels with respect to the CAAQS until 3-calendar years of data have been collected.



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**Table 1 Summary of the 98<sup>th</sup> Percentile Daily Average PM<sub>2.5</sub> Concentrations Measured to Date (µg/m<sup>3</sup>)**

Period	Crago Road Monitoring Station
November 2014 – October 2015 (Year 1)	20.5
November 2015 – September 2016 (11-months of data)	24.4

Regards,

**STANTEC CONSULTING LTD.**

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