



DATE: October 21, 2015

TO:

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Laura McDowell, P.Eng
Director, Environmental Promotion and Protection
The Regional Municipality of York
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Re: Durham York Energy Centre – First & Second 2015 Quarterly Ambient Air Monitoring Submission Report

A data validation review was conducted by the Ministry of the Environment and Climate Change (MOECC) Central Region staff for the *2015 First and Second Quarterly Submission Reports* prepared by Stantec on behalf of Durham and York Regions for the Rundle and Courtice Stations in Clarington.

This memorandum pertains to the following continuous parameters; sulphur dioxide (SO₂), nitrogen oxides (NO_x) and particulate matter smaller than 2.5 microns (PM_{2.5}).

Based on the review of the continuous parameters, SO₂ and NO₂ are deemed to be valid for the First and Second Quarterly Report submissions from January to June 2015. Further clarification is required for PM_{2.5} on the following dates when compared to the Courtice and Oshawa AQI stations and considering that during these events wind speed and direction was generally stable. Please revisit the following data and ensure these hourly measurements are valid.

- At Rundle Station, an elevated hourly PM_{2.5} reading of 99.8 µg/m³ was observed on February 18, 2015 at 4:00 pm (Figure 1).
- At Rundle Station, elevated hourly PM_{2.5} readings of 97.2 µg/m³, 192.9 µg/m³ and 229.3 µg/m³ were observed on February 22, 2015 at 10:00 am, 11:00 am and 12:00 pm, respectively (Figure 2).
- At Rundle Station, an elevated hourly PM_{2.5} reading of 156 µg/m³ was observed on March 9, 2015 at 8:00 am (Figure 3).

- At Rundle Station, elevated hourly PM_{2.5} readings of 138.1 µg/m³, 154.4 µg/m³, 172.2 µg/m³ and 121.8 µg/m³ were observed on April 6, 2015 at 5:00 am, 6:00 am, 7:00 am and 8:00 am, respectively (Figure 4).

Figure 1: Ambient Hourly PM_{2.5} measurements at Rundle Station on February 18, 2015.

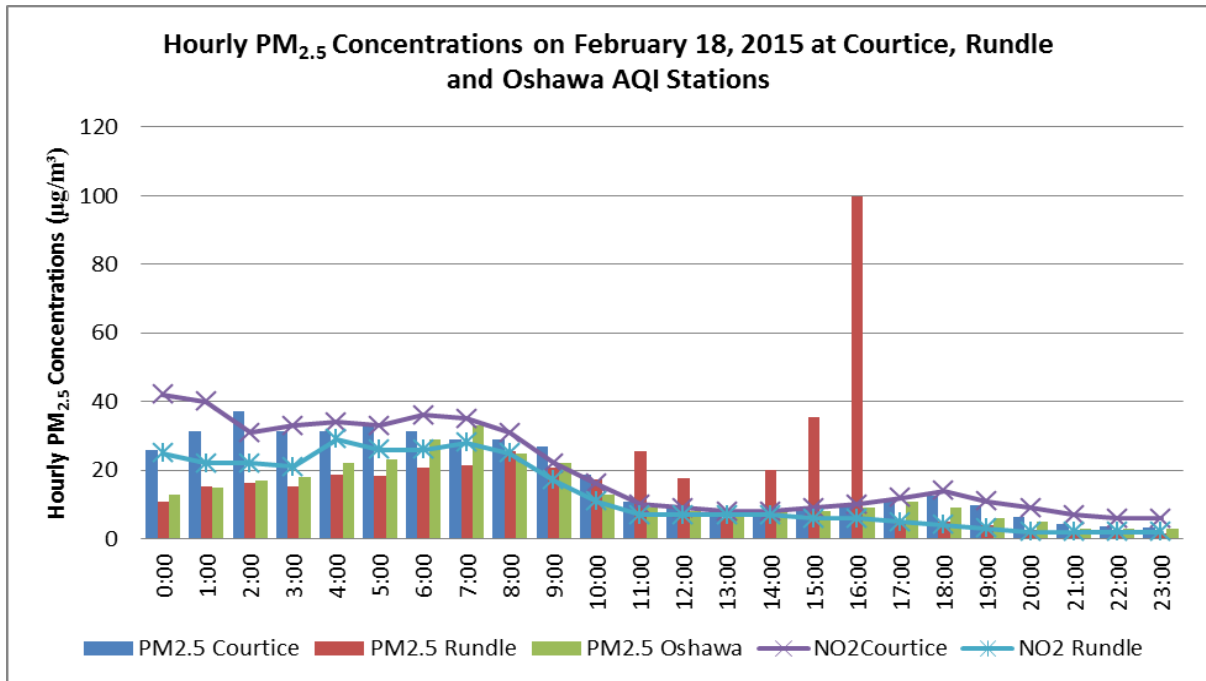


Figure 2: Ambient Hourly PM_{2.5} measurements at Rundle Station on February 22, 2015.

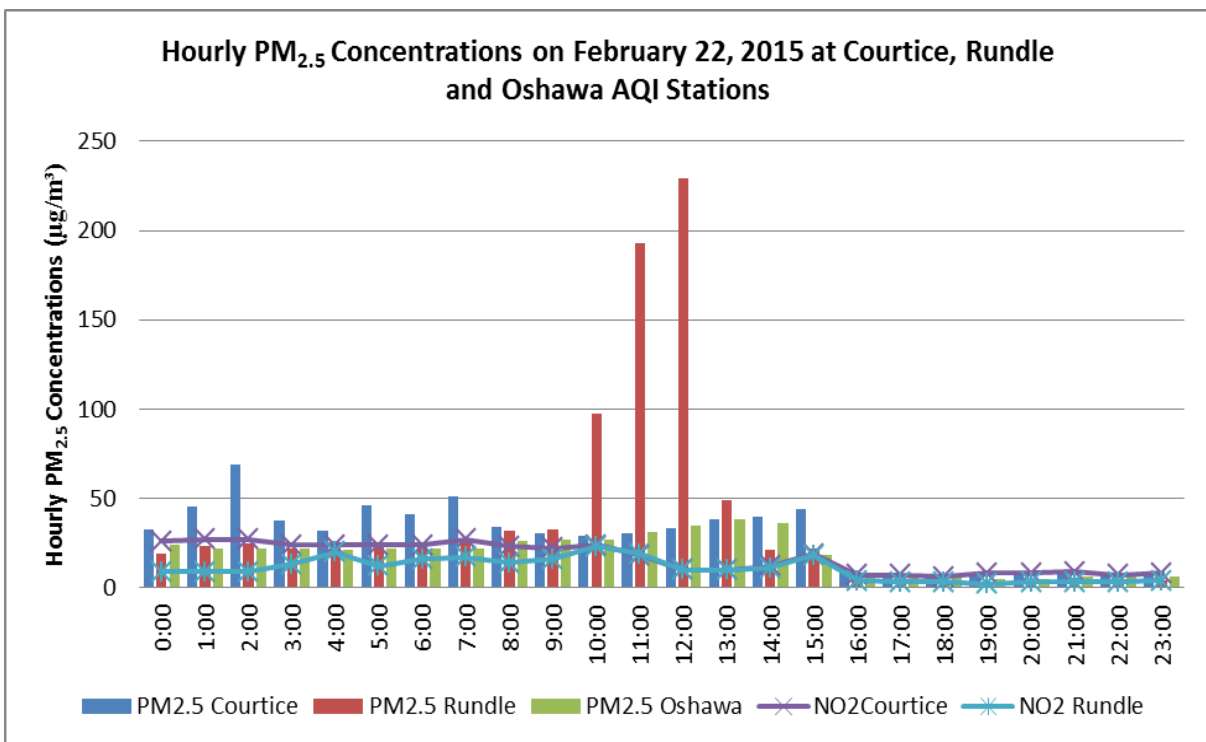


Figure 3: Ambient Hourly PM_{2.5} measurements at Rundle Station on March 9, 2015.

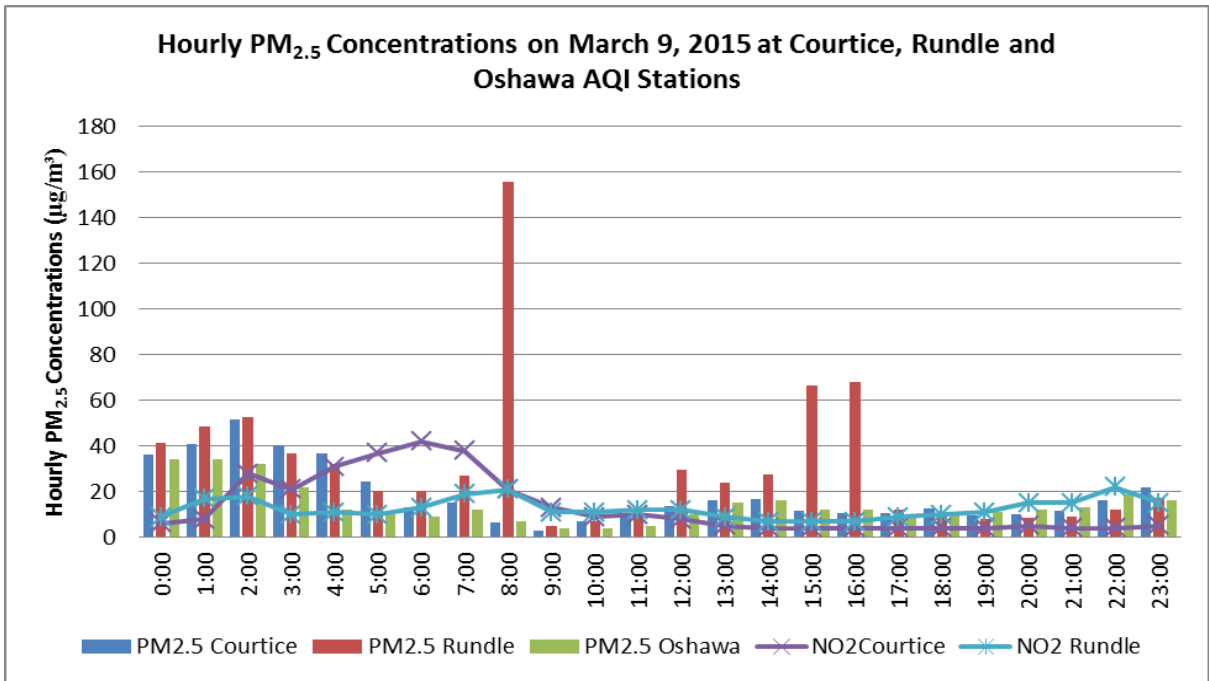
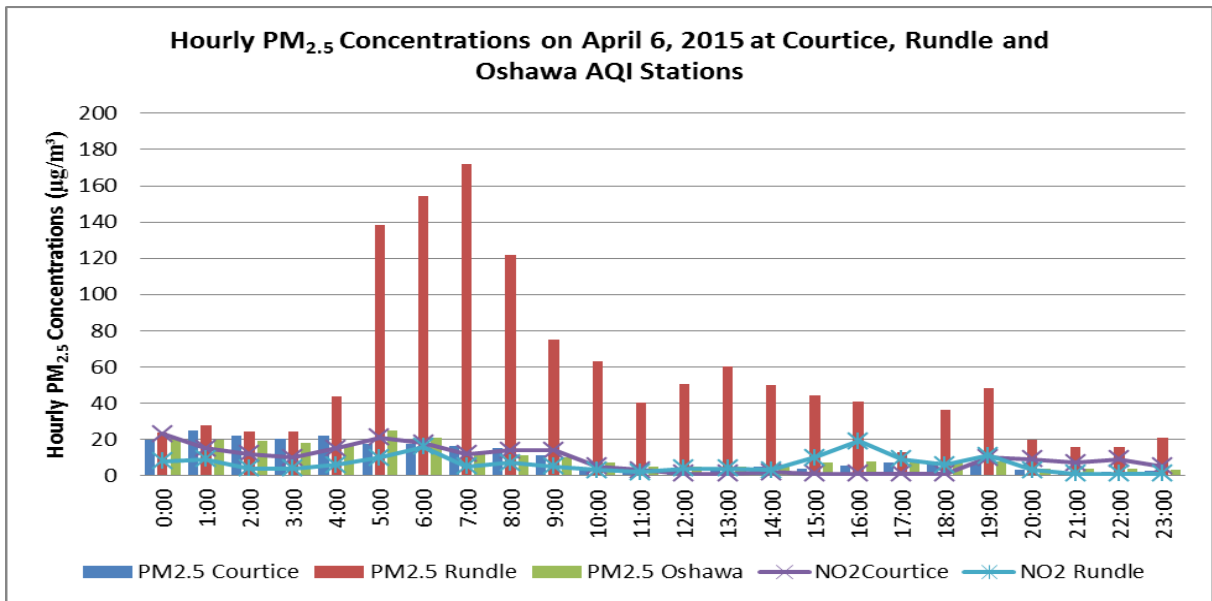
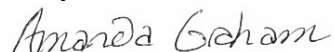


Figure 4: Ambient Hourly PM_{2.5} measurements at Rundle Station on April 6, 2015.



If there are any questions or concerns regarding these comments, please do not hesitate to contact Amanda Graham at (416) 326-5745.

Sincerely,



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