



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

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December 19, 2016

C. Russell McDaniel, PE  
Director Environmental Engineering,  
Remediation & Compliance  
Norfolk Southern Railway  
1200 Peachtree St NE – Box 13  
Atlanta GA 30309

Re: Norfolk Southern's Coal Pier – Lamberts Point Air Monitoring Study  
Quality Assurance Project Plan Norfolk Southern Lambert's Point

Dear Mr. McDaniel,

Virginia DEQ Office of Air Quality Monitoring (AQM) has received and reviewed the final data submittal for the Norfolk Southern Air Quality Monitoring Project at the Lambert's Point facility in Norfolk, Virginia. This monitoring project was installed and operated consistent with the Quality Assurance Project Plan (QAPP) originally submitted to AQM in July of 2015 and subsequently revised and updated in April of 2016. The QAPP specified that this project was to be operated for a one year period beginning August 1, 2015 and ending July 31, 2016. The target pollutant of this project was particulate matter less than 10 microns (PM10). Based on the data report submittals, this project has met all data capture and quality assurance requirements contained in the QAPP document.

AQM reviewed the final data submittal dated October 11, 2016 and has the following comments:

1. The maximum concentration for HRSD monitor mentioned in Figure 1 as 37.31 ug/m<sup>3</sup>. This appears to be a typo; it is 40.21 ug/m<sup>3</sup> shown in Table 1.
2. For precision calculations the primary and collocated monitors at HRSD Site were in operation on a 1-in-3 days schedule for 3 months and 16 valid data pairs were identified which meet the criterion of greater than 15 ug/m<sup>3</sup>. From Table 1 it appears there were 18 valid data pairs which met this criterion if rounding is applied to the data for 7/8/2016 and 8/7/2016.

Items 1 and 2 listed above do not prevent DEQ from approving the results of the monitoring project as submitted.

The information submitted by Norfolk Southern indicates that the precision results are 5.48% which meets the quality objective contained in Appendix A of the QAPP and the requirements of the QA Handbook Volume II Appendix D. Appendix I of the October 11 data report contains the results of the filter weighings through the life of the project. The maximum concentration of PM10 collected during this study is  $40.21 \mu\text{g}/\text{m}^3$  which is below the NAAQS standard of  $150 \mu\text{g}/\text{m}^3$  indicating that the collected data is below the standard.

Based upon the above, Norfolk Southern has completed the Lambert's Point study consistent with the approved project plan. DEQ appreciates Norfolk Southern's participation and cooperation in this study.

Please feel free to contact me if you have any questions regarding the above review please feel free to contact me at (804) 527-5178.



Charles L. Turner

Office of Air Quality Monitoring