VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY MONITORING NETWORK CHANGES
JULY 1, 2009 to JUNE 30, 2010

INSTRUMENTATION CHANGES SINCE LAST REVIEW

51-770-0011, Steel Dynamics dba RES, inc. Source specific Lead Monitor, City of Roanoke, AQCR2

This is one of three source-specific monitors that will be placed prior to January 1, 2010 as part of the requirements to meet the new Lead NAAQS monitoring requirements.

51-710-0024, 181-A1 Norfolk NOAA Storage Facility, AQCR6

As a result of vibration from construction that is ongoing directly outside of the NOAA facility, the continuous instruments for CO, SO2 and NO2 at this site no longer provided reliable data. Due to the impact of the loss of reliability the CO, SO2 and NO2 monitors were moved to other locations in AQCR6 until the construction project is complete. Upon completion of the construction which is expected to be this fall, these instruments will be moved back to NOAA.

51-700-0013, 180-C, SCOT Facility NN Public Schools, Newport News, AQCR6

This monitoring site is one of two locations used for relocating the NOAA site monitors described above. The NO2 monitor, originally located at the NOAA site was moved to this location in January 2010 on a temporary basis. The NO2 monitor will be moved to the NASA Langley site in Spring, 2010.

51-810-0008, 184-J, Tidewater Regional Office, Virginia Beach, AQCR6

This monitoring site is one of two locations used for relocating the NOAA site monitors described above. The CO and SO2 monitors, originally located at the NOAA site were moved to this location. The CO monitor was moved in December 2009 and the SO2 monitor was moved in January 2010. Upon completion of construction at the NOAA site these instruments will be moved back to NOAA.

51-510-0009, L-126-C, Alexandria Health Department Site, Alexandria, AQCR7

VA DEQ installed a PM2.5 FRM monitor within the limits of the City of Alexandria. This one in three day monitor was installed in November 2009 and run as a Special Purpose Monitor (SPM) through the end of December 2009. This allowed DEQ to ensure that all support systems (filters, pickup, system filter interchanges, etc.) were working properly prior to the beginning of 2010. The monitor was designated part of the PM2.5 network and began collecting data January 2, 2010.

ANTICIPATED INSTRUMENTATION CHANGES

51-027-0006, 4-G, Jewell Coke source specific Lead Monitor, Buchanan County, AQCR1

This is one of three anticipated source specific Lead monitors. This monitor was to be sited and operational by January 1, 2010. This did not occur due to several aborted attempts to secure rights to locate the monitor. A request was submitted to Consol Energy for permission to site the monitor at the VP-1 Upper Stock Pile Area in October of 2009. DEQ received permission to site the monitor in February 2010 and is proceeding to install the monitor. The projected start date is June 1, 2010.

51-009-0007, 53-G, Griffin Pipe Products source specific Lead Monitor, Amherst County, AQCR3

As a result of the lowered emissions threshold in the revised Lead NAAQS standard proposed December 2009, Griffin Pipe Products will be included as one of the sources that will require a source-specific Lead Monitor. The site has already been picked out for this monitor and AQM anticipates that this monitor will be placed prior to the December 31, 2010 deadline.

51-087-0014, 72-M, MathScience Innovation Center NCore Site, Henrico County, AQCR5

In addition to hosting the NATTS site, the MSIC site will also be the NCore site location for Virginia. Currently there are monitors established at the site for O3, NOy, PM2.5 FRM 24 hr., PM2.5 Continuous, PM2.5 Speciation, PM10 LO VOL, PM10 Coarse and PM10 24 hr. A meteorological station is planned for summer 2010 and CO trace and SO2 trace monitors for

summer 2010. The site is currently being used for NOy comparison to NOx data and for developing PM coarse background data.

ANTICIPATED SITE CHANGES

51-059-1005, L-46-C1, Mason Governmental Center, Fairfax County, AQCR7
51-059-5001, L-46-A8, McLean Governmental Center, Fairfax County, AQCR7
51-059-0005, L-46-F, Chantilly, Fairfax County, AQCR7
51-059-0018, L-46-B3, Mount Vernon Sherwood Hall, Fairfax C

In a letter dated February 16, 2010, the Fairfax County Health Department indicated that it was their intent to cease air monitoring activities at the above listed stations effective June 30, 2010. Due to budget constraints the monitoring activities had already been cut back to just ozone and PM2.5 activities on July 1, 2009. The fiscal year from July 1, 2009 to June 30, 2010 was designated as a transitional year to allow the County to transition the air monitoring staff to other positions and to provide VA DEQ time to evaluate options related to ongoing monitoring activities at these sites.

VA DEQ has evaluated these monitoring site relative to the historic ozone and PM2.5 data and have determined that ceasing operation of these sites after June 30, 2010 while still retaining the current DEQ site at Lee Park in Fairfax County (51-059-0030, 46-B9) will not compromise DEQ's ability to make accurate and informed determinations relative to the NAAQS compliance status of Fairfax County relative to ozone and PM2.5. VA DEQ believes that the data from these sites are redundant with the information generated at the Lee Park site and that the Metropolitan Washington D.C. MSA has more than the regulatorily required number of monitors. VA DEQ also believes that monitoring resources in the Northern Virginia area are better served by focusing on future monitoring requirements required by new NAAQS standards currently being proposed. VA DEQ will notify EPA RIII by separate cover when the monitoring activities at these sites are concluded.

51-650-xxxx, NASA Langley Site, Hampton Virginia, AQCR6

AQM will begin transitioning the Newport New SCOT site (51-700-0013, 180-C) to the new NASA Langley site in spring of 2010. DEQ currently only has permission to remain at the Newport News site until December 2010. The new site will be located on the NASA Langley facility in Hampton. The move will be made in stages starting with the placement of the ozone monitor in the NASA monitoring site prior to the beginning of the ozone season. The NO2 monitor will be moved to that monitoring shelter as well. The new DEQ monitoring shelter will be placed on site in May 2010 and the instrumentation from Newport News will be transitioned to the DEQ shelter in stages over the next two months. The anticipated complete date is July 31, 2010.

SPECIAL STUDIES:

VA DEQ performed a special monitoring study in Southwest Virginia (AQCR1) in and around the town of Roda. The study was initiated at the request of the Virginia State Air Pollution Control Board (the Board) in response to a study performed in August of 2008 by Dr. Viney Aneja for the Sierra Club. DEQ placed five PM10 monitors in May and June of 2009 in various locations in Roda and in the town of Stonega. The purpose was to determine if PM10 levels generated by coal truck traffic were above the NAAQS level of 150 micrograms per cubic meter per 24 hour period. The results of the DEQ study indicated that the average levels of PM10 were below the standard at locations that were sited consistent with siting criteria in 40 CFR Part 58.

51-670-0010, 154-M, Carter G. Woodson Middle School, Hopewell – Upwind site.
This site has been converted to a permanent Urban Air Toxics site. This site is also being used to collect PAH samples as part of completing the Hopewell Air Toxics study.