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west virginia department of environmental protection

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Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.wvdep.org](http://www.wvdep.org)

### **2013 Ambient Air Monitoring Network Design**

On October 17, 2006, the US Environmental Protection Agency (EPA) published final amendments to 40CFR Part 53 and 58 “Revisions to Ambient Air Monitoring Regulations; Final Rule”. This rule became effective on December 18, 2006. An excerpt of the EPA summation of the rule follows:

“The purpose of the amendments is to enhance ambient air quality monitoring to better serve current and future air quality management and research needs... In addition, the final amendments modify the general monitoring network design requirements for minimum numbers of ambient air monitors to focus on populated areas with air quality problems and to reduce significantly the requirements for criteria pollutant monitors that have measured ambient air concentrations well below the applicable National Ambient Air Quality Standards. These amendments also revise certain provisions regarding monitoring network descriptions and periodic assessments, quality assurance, and data certifications...”

Under Part 58, Subpart B-Monitoring Network, § 58.10 Annual Monitoring Network Plan and Periodic Assessments (a)(1): “Beginning July 1, 2007, the State, or where applicable local, agency shall adopt and submit to the Regional Administrator an annual monitoring network plan which shall provide for the establishment and maintenance of an air quality surveillance system that consists of a network of SLAMS monitoring stations including FRM, FEM, and ARM monitors that are part of SLAMS, NCore stations, STN stations, State speciation stations, SPM stations, and/or, in serious, severe and extreme ozone nonattainment areas, PAMS stations, and SPM monitoring stations. The plan shall include a statement of purposes for each monitor and evidence that siting and operation of each monitor meets the requirements of appendices A, C, D, and E of this part, where applicable. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA. “

The purpose of this document is to provide for the public inspection of the WV Department of Environmental Protection Division of Air Quality’s (DAQ) ambient air monitoring network design for 2013. This public inspection period is open for 30 days from the date of posting on our website at [www.dep.wv.gov/daq/](http://www.dep.wv.gov/daq/). Any written comments received during the 30 day public inspection period, regarding this network design will be forwarded to USEPA Region 3 along with the network design document. The annual network design format will also be used to document changes to the state’s PM<sub>2.5</sub> monitoring that would affect the location of a violating PM<sub>2.5</sub> monitor. Except for circumstances not anticipated during this review period, such as inadequate federal or state funding, leasing issues, site maintenance issues, personnel

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resource issues or equipment failure no other *intentional* changes are expected to be made, at this time, to the PM<sub>2.5</sub> monitoring network or the criteria pollutant monitoring network/stations during the next 12 months except those that are discussed within this document. All of the monitoring sites are leased and those leases are subject to periodic renewals and a standard 30 day termination clause by either party which can affect the DAQ's ability to retain a monitoring site location. Any proposed changes mentioned in this document will only be made after this agency has provided notification to USEPA Region 3. The proposed changes are listed herein so that the public may have an opportunity to comment on any possible network modifications.

In the pages that follow, each individual monitoring site is listed by county along with a statement as to whether it meets the requirements of Part 58, the Air Quality Subsystem (AQS) site ID number, site location information, sampling and analytical method for each parameter, the Metropolitan Statistical Area (MSA) that is represented by the site, proposed site changes and any other general comments regarding the site. Other pertinent information such as latitude/longitude, site purpose, the monitor's objective/site type and representative scale is listed for each site. At the end of this document is a discussion regarding the NCore monitoring site and general SO<sub>2</sub> monitoring.

Please send written comments to:

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Comments may also be submitted electronically to: [tim.j.carroll@wv.gov](mailto:tim.j.carroll@wv.gov) . All comments will be forwarded to EPA Region 3 along with this document.

For additional information and to view data publicly available from the AQS data system please visit [www.epa.gov/airdata/](http://www.epa.gov/airdata/) . For a copy of the latest WVDEP-DAQ annual air monitoring report please visit [www.dep.wv.gov/daq/](http://www.dep.wv.gov/daq/).

To review the September 2006 EPA Air Monitoring rule please visit [www.epa.gov/pm/actions.html](http://www.epa.gov/pm/actions.html).

## **Berkeley County**

### **Site: Martinsburg Ball Field**

Location: Martinsburg Ball Field, Martinsburg, Berkeley County, WV

AQS ID: 54-003-0003

MSA: Hagerstown-Martinsburg

Latitude: 39.448006

Longitude: -77.964125

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

PM<sub>2.5</sub> single event Lo-Volume sampler, Federal Reference Method, samples once every three days. Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

#### Gaseous:

Ozone – UV absorption continuous gas monitor operated during ozone season April – October

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

## **Brooke County**

### **Site: Mahan Lane**

Location: Mahan Lane, Follansbee, Brooke County, WV

AQS ID: 54-009-0005

MSA: Steubenville-Weirton OH-WV

Latitude 40.338056

Longitude -80.597222

Comment: Site marginally complies with Appendix A, C, D, E of Part 58. There continues to be infringement of tree growth that is outside of site leased area which is affecting the ideal monitor distance from the drip line. The DAQ is also experiencing leasing issues with this site. The DAQ continues to explore siting options.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

PM<sub>10</sub> Hi-Volume sampler, Size Selective Inlet, Federal Reference Method, utilizes 8"x10" quartz filters, samples once every three days. Samples analyzed by gravimetric analysis.

Proposed change: notify USEPA Region 3 that we may reduce manual PM<sub>10</sub> filter sampling frequency to once every six days.

Representative siting scale: Neighborhood

Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> sequential Lo-Volume sampler, Federal Reference Method, samples once every three days. Samples analyzed by gravimetric analysis.  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

**Site: McKims Ridge**

Location: McKims Ridge Road, Brooke County, WV  
AQS ID: 54-009-0007  
MSA: Steubenville-Weirton OH-WV  
Latitude 40.390110  
Longitude -80.585727

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

**Site: Marland Heights**

Location: Marland Heights, Weirton, Brooke County, WV  
AQS ID: 54-009-0011  
MSA: Steubenville-Weirton, OH-WV  
Latitude 40.394500  
Longitude -80.612034

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400/1400a continuous PM<sub>10</sub> monitor.  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> sequential Lo-Volume sampler, Federal Reference Method, samples once every three days. A collocated PM<sub>2.5</sub> monitor samples every 12<sup>th</sup> day. Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

Carbon Monoxide – IR Gas Filter Correlation continuous CO analyzer  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

**Cabell County**

**Site: Huntington**

Location: Marshall University, Henderson Center, Huntington, Cabell County, WV

AQS ID: 54-011-0006

MSA: Huntington-Ashland

Latitude 38.424510

Longitude -82.425323

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons. Due to operator safety and site access difficulties, the DAQ is working to move this site in 2013-2014 to a nearby location. All but the lead (Pb) monitors would be relocated. The PM<sub>2.5</sub> monitor is in compliance with both the 24-hour and annual NAAQS.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> single event Lo-Volume sampler, Federal Reference Method, samples once every three days. A collocated PM<sub>2.5</sub> monitor samples every 12<sup>th</sup> day. Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor

Representative siting scale: Neighborhood

Monitoring objective/site type: Population oriented

Ozone – UV absorption continuous gas monitor operated during ozone season April – October

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Lead (Pb)

A Total Suspended Particulate (TSP) lead monitor was installed at this site and the first sample was collected in February 2012.

A TSP Pb Tisch Hi-Volume TSP sampler collects samples once every six days on an 8”x10” glass fiber filter. A collocated Pb Hi-Volume samples runs once every twelve days. Samples analyzed for Pb using USEPA Region 9 Federal Equivalent Method for ICP-MS.

Representative siting scale: Urban  
Monitoring objective/site type: Source oriented

### **Greenbrier County**

#### **Site: Sam Black Church**

Location: Department of Highway Garage, Sam Black Church, Greenbrier County, WV  
AQS ID: 54-025-0003  
MSA: NA  
Latitude 37.908439  
Longitude -80.632812

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Gaseous:

Ozone – UV absorption continuous gas monitor operated during ozone season April – October  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

### **Hancock County**

#### **Site: New Manchester**

Location: New Manchester Elementary School, New Manchester, Hancock County, WV  
AQS ID: 54-029-0005  
MSA: Steubenville-Weirton, OH-WV  
Latitude 40.529060  
Longitude -80.576230

Comment: Some infringement of tree growth outside of leased area. Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

#### **Site: New Cumberland**

Location: RD#1, Carothers Road, New Cumberland, Hancock County, WV  
AQS ID: 54-029-0007  
MSA: Steubenville-Weirton, OH-WV  
Latitude 40.460160  
Longitude -80.576769

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

**Site: Chester**

Location: Allison Elementary School, Chester, Hancock County, WV  
AQS ID: 54-029-0008  
MSA: Steubenville-Weirton, OH-WV  
Latitude 40.615730  
Longitude -80.560132

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

Periodic special project collection of samples for TSP metals also takes place at this site.

**Site: Summit Circle**

Location: Summit Circle, Weirton, Hancock County, WV  
AQS ID: 54-029-0009  
MSA: Steubenville-Weirton, OH-WV  
Latitude 40.427420  
Longitude -80.592500

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400/1400a continuous PM<sub>10</sub> monitor.  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Source impact

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented  
Carbon Monoxide – IR Gas Filter Correlation continuous CO analyzer  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Source impact

**Site: Lawrenceville**

Location: Community Park and Tyrone Road, Lawrenceville, Hancock County, WV

AQS ID: 54-029-0015

MSA: Steubenville-Weirton, OH-WV

Latitude 40.618340

Longitude -80.540799

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons. Site also has a 10 meter meteorological tower.

Parameters monitored, sampling method, scale and purpose:

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Periodic special project collection of samples for Volatile Organic Compounds and TSP metals also take place at this site.

**Site: Oak Street**

Location: Oak St. and Owings St. - Between Dead Ends, Weirton, Hancock County, WV

AQS ID: 54-029-1004

MSA: Steubenville-Weirton, OH-WV

Latitude 40.421540

Longitude -80.580898

Comment: The site is comprised of two separate sampling structures. One is a deteriorating traditional air monitoring shelter that supports all the gaseous monitoring and manual PM<sub>10</sub> Hi-Vol FRM samplers. The other structure is an adjacent wooden platform that supports a continuous PM<sub>10</sub> FEM sampler. The shelter complies with Appendix A, C, D, E of Part 58. However, the platform sampler is adversely influenced by decades of unchecked tree growth on property outside of the DAQ lease area. Due to property issues, it is highly unlikely that DAQ will be able to obtain an approved lease revision in order to replace the shelter and address the tree infringement problem. The DAQ will seek to decommission the Oak Street site in 2013-2014. The Summit Circle site is less than 1 mile from Oak Street and the DAQ leases a much larger area that would better allow us to manage tree proximity. The site is already equipped with a PM<sub>10</sub> TEOM, SO<sub>2</sub> and CO FRM/FEM monitors. The DAQ would use this site to replace Oak St. and we would move the ozone monitor to Summit Circle. Until then, only the data generated from those monitors located in and upon the Oak Street shelter is suitable for NAAQS comparisons. The Oak Street PM<sub>2.5</sub> monitor is in compliance with both the 24-hour and annual standard.

Parameters monitored, sampling method, scale and purpose:

Particulates:

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400/1400a continuous PM<sub>10</sub> monitor.

Representative siting scale: Neighborhood

Monitoring objective/site type: Highest concentration

PM<sub>10</sub> Hi-Volume sampler, Size Selective Inlet, Federal Reference Method, utilizes 8"x10" quartz filters, samples once every six days. A collocated PM<sub>10</sub> monitor samples every 12<sup>th</sup> day. Samples analyzed by gravimetric analysis.

Representative siting scale: Neighborhood

Monitoring objective/site type: Highest concentration

Proposed change: The manual PM<sub>10</sub> filter based sampler would be eliminated if this site is relocated to Summit Circle that currently has a PM<sub>10</sub> continuous monitor.

PM<sub>2.5</sub> sequential sampler, Federal Reference Method, samples once every three days.

Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor

Representative siting scale: Neighborhood

Monitoring objective/site type: Highest concentration

Carbon Monoxide – IR Gas Filter Correlation continuous CO analyzer

Representative siting scale: Neighborhood

Monitoring objective/site type: Population oriented

Ozone – UV absorption continuous gas monitor operated during ozone season April – October

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

**Harrison County**

**Site: Clarksburg**

Location: Washington Irving Junior High School, Clarksburg, Harrison County, WV

AQS ID: 54-033-0003

MSA: NA

Latitude 39.278056

Longitude -80.342500

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> sequential Lo-Volume sampler, Federal Reference Method, samples once every three days. Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

## **Kanawha County**

### **Site: Charleston**

Location: 209 Morris Street, Charleston, Kanawha County, WV

AQS ID: 54-039-0010

MSA: Charleston, WV

Latitude 38.345620

Longitude -81.628422

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400/1400a continuous PM<sub>10</sub> monitor. Data used primarily for Air Quality Index purposes.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> sequential sampler, Federal Reference Method, samples once every three days. Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

#### Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Ozone – UV absorption continuous gas monitor operated during ozone season April – October

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

#### Toxics

TSP metals, certain Volatile Organic Compounds and Carbonyls

Representative siting scale: Neighborhood

Monitoring objective/site type: Population oriented

#### Other

USEPA RadNet Monitor

Comment: In order to attempt the reallocation of the resources necessary to operate an NCore site, the Morris St. site would have to be combined with the NCore site in the event a suitable location is secured for NCore that is also representative of the Charleston site.

### **Site: Guthrie**

Location: Guthrie Agricultural Center, Charleston, Kanawha County, WV

AQS ID: 54-039-0011

MSA: Charleston, WV

Latitude 38.448611  
Longitude -81.683889

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is not suitable for NAAQS comparisons since it only consists of a speciation monitor and not any criteria pollutant monitors.

Parameters monitored, sampling method, scale and purpose:

PM<sub>2.5</sub> Speciation

Speciation Trends Network site equipped with Met One Super SASS and URG 3000N Carbon sampler. Both sample on an every three day schedule.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

**Site: South Charleston**

Location: South Charleston Public Library 312 4th Ave., South Charleston, Kanawha County, WV

AQS ID: 54-039-1005

MSA: Charleston, WV

Latitude 38.368056

Longitude -81.693611

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates

PM<sub>2.5</sub> sequential Low-Volume sampler, Federal Reference Method. Samples once every three days. Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> Speciation

Speciation Met One Super SASS monitor and URG 3000N Carbon sampler. Both sample on an every sixth day schedule.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Comment: In order to attempt the reallocation of the resources necessary to operate an NCore site, the South Charleston site would have to be combined with the NCore site in the event a suitable location is secured for NCore that is also representative of the South Charleston site.

**Marion County**

**Site: Fairmont**

Location: 401 Guffey Street, Fairmont, Marion County, WV

AQS ID: 54-049-0006

MSA: NA

Latitude 39.480833  
Longitude -80.135278

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method, samples once every three days.  
Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

**Marshall County**

**Site: Moundsville**

Location: Moundsville National Guard Armory, Moundsville, Marshall County, WV  
AQS ID: 54-051-1002  
MSA: Wheeling, WV-OH  
Latitude 39.915970  
Longitude -80.734057

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method. Samples once every three days.  
Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400ab continuous PM<sub>2.5</sub>  
Non-FRM/FEM.monitor with Filter Dynamic Measurement System (FDMS).  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> Speciation

Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

## **Monongalia County**

### **Site: Morgantown**

Location: Morgantown Airport, Morgantown, Monongalia County, WV

AQS ID: 54-061-0003

MSA: NA

Latitude 39.649444

Longitude -79.921111

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method. Samples once every three days.

Samples analyzed by gravimetric analysis.

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

#### Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

Ozone – UV absorption continuous gas monitor operated during ozone season April – October

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

#### Toxics

TSP metals, certain Volatile Organic Compounds and Carbonyls.

Representative siting scale: Neighborhood

Monitoring objective/site type: Population oriented

## **Ohio County**

### **Site: Wheeling**

Location: Warwood Water Treatment Plant, Wheeling, Ohio County, WV

AQS ID: 54-069-0010

MSA: Wheeling, WV-OH

Latitude 40.114700

Longitude -80.700890

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method, samples once every three days.  
Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Gaseous:

Ozone – UV absorption continuous gas monitor operated during ozone season April – October  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Toxics

TSP metals, certain Volatile Organic Compounds and Carbonyls.  
Representative siting scale: Neighborhood  
Monitoring objective/site type: Population oriented

**Raleigh County**

**Site: Beckley**

Location: Maxwell Hill Elementary School, Beckley, Raleigh County, WV  
AQS ID: 54-081-0002  
MSA: NA  
Latitude 37.807940  
Longitude -81.197461

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method, samples once every three days.  
Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

**Wood County**

**Site: Vienna**

Location: Neale Elementary School, Vienna, Wood County, WV  
AQS ID: 54-107-102  
MSA: Parkersburg-Marietta, WV-OH  
Latitude 39.323660  
Longitude -81.552196

Comment: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> sequential sampler, Federal Reference Method. Samples once every third day.  
Samples analyzed by gravimetric analysis.  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented

Gaseous:

Sulfur Dioxide – UV fluorescent continuous gas monitor  
Representative siting scale: Urban  
Monitoring objective/site type: Population oriented  
Ozone – UV absorption continuous gas monitor operated during ozone season April – October  
Measurement Scale: Urban  
Purpose: Population Exposure

**NCore Multi-Pollutant Monitoring**

While the DAQ has reviewed approximately five locations for placement of the NCore site, to date we have been unable to secure a lease for the site. The DAQ worked extensively with site contacts to pursue a lease agreement but has not been able to acquire the necessary approval from the potential leaseholder. At this time we continue to seek other suitable locations for an NCore site. Identifying locations, acquiring property ownership information, gaining approval to pursue a lease and obtaining an actual lease is all performed using current air monitoring resources and personnel. As has always been the case, should a site and lease be secured then no other activities can be performed on site development until a stable and consistent funding source is identified for site development and capital expenditures. So that the DAQ may reallocate some of the resources necessary to operate an NCore site, ideally the NCore site would be situated such that we can relocate and combine the existing Charleston and South Charleston sites to the NCore location. Sustainable funding for continued operation and maintenance and other resources will need to be identified to support initial and long term NCore monitoring.

**Sulfur Dioxide (SO<sub>2</sub>)**

On June 2, 2010, EPA strengthened the NAAQS for SO<sub>2</sub> by establishing a new 1-hour standard at a level of 75 parts per billion (ppb). Two SO<sub>2</sub> monitored areas in the state fail to meet the tighter short-term SO<sub>2</sub> NAAQS based on the 2010-2012 data. Because of the age of the SO<sub>2</sub> monitors, instrument failure rates are increasing and replacement parts have become difficult to find. The DAQ has used equipment replacement funds to purchase 4 new instruments however; no additional funding source has been identified this year for replacement of the remaining SO<sub>2</sub> monitors. Therefore, as SO<sub>2</sub> instruments fail beyond repair, it may become necessary to work with USEPA Region 3 to rank the importance of the SO<sub>2</sub> monitoring sites, and terminate SO<sub>2</sub> monitoring at lower value sites, as needed, so that remaining instrumentation and parts can be used to continue to support monitoring at higher value SO<sub>2</sub> sites.