



---

west virginia department of environmental protection

---

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

Joe Manchin III, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.wvdep.org](http://www.wvdep.org)

### **2008 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 2008. This public inspection period is open for 30 days from the date of posting on our website at [www.wvdep.org/daq](http://www.wvdep.org/daq). Any written comments received during the 30 day public inspection period, regarding this network design and successive annual network designs, will be forwarded to USEPA Region III 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 federal funding reductions,

Promoting a healthy environment.

implementation of USEPA minimum monitoring requirements, leasing or personnel resource issues, no *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 18 months except as discussed within this document. It should be noted however, that while every effort is being made to assure adequate monitoring, personnel resource issues may require periodic assessment, and additional discussion with EPA Region 3, regarding options for the operation of PM<sub>2.5</sub> monitoring in the central and eastern areas of WV during the period covered by this network design. In addition, all of the monitoring sites are leased and those leases are subject to periodic renewals and a standard 30 day termination clause which can affect the DAQ's ability to maintain a monitoring site location.

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 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.

Please send written comments to:

Tim J. Carroll, Assistant Director  
Air Monitoring/Laboratory  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Comments may also be submitted electronically to: [tcarroll@wvdep.org](mailto:tcarroll@wvdep.org). 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 <http://www.epa.gov/air/data/>. For a copy of the latest WVDEP-DAQ annual air monitoring report please visit [www.wvdep.org/daq](http://www.wvdep.org/daq).

To review the EPA Air Monitoring rule and other regulatory action by EPA, please visit <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. See comments regarding PM<sub>2.5</sub> provided earlier in the document. This site is suitable for NAAQS comparisons. The air monitoring shelter is scheduled to be replaced in 2008.

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 complies with Appendix A, C, D, E of Part 58. There has been some infringement of tree growth that is outside of site leased area which is affecting the ideal monitor distance from obstructions. The DAQ is currently exploring options regarding this site location and we will work with Region 3 regarding this site.

Parameters monitored, sampling method, scale and purpose:

#### Particulates:

PM10 Hi-Volume sampler, Size Selective Inlet, Federal Reference Method, utilizes 8"x10" quartz filters, samples once every three days. Samples analyzed by gravimetric analysis.

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, Hancock 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. Note: in previous design documents, this site was erroneously stated to be located in Hancock County (ID 029). The Hancock County location was an artifact from an old site location many years ago prior to the site's current location. Using internet map viewing technology, the site is situated slightly across the County line in Brooke County. All site location parameters have been corrected in the Air Quality Subsystem.

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.

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

**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: 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, Crothers 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

**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 PM10 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. Periodic special project collection of samples for Volatile Organic Compounds and TSP metals take place at this site. 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

**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: Site complies with Appendix A, C, D, E of Part 58. This site is suitable for NAAQS comparisons. The air monitoring shelter is scheduled to be replaced in 2008.

Parameters monitored, sampling method, scale and purpose:

Particulates:

Tapered Element Oscillating Micro-Balance (TEOM) Series 1400/1400a continuous PM10 monitor.

Representative siting scale: Neighborhood

Monitoring objective/site type: Highest concentration

PM10 Hi-Volume sampler, Size Selective Inlet, Federal Reference Method, utilizes 8"x10" quartz filters, samples once every six days. A collocated PM10 monitor samples every 12<sup>th</sup> day. Samples analyzed by gravimetric analysis.

Representative siting scale: Neighborhood

Monitoring objective/site type: Highest concentration

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

**Site: Browns Island**

Location: Browns Island, Weirton, Hancock County, WV

MSA: Steubenville-Weirton, OH-WV

Comment: Site is comprised of an 80 meter meteorological tower only and data is not reported to the Air Quality Subsystem. Because of safety concerns, this tower will be dismantled in 2008.

**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. See comments regarding PM<sub>2.5</sub> provided earlier in the document. This site is suitable for NAAQS comparisons. The DAQ is scheduled to begin every day PM<sub>2.5</sub> sampling in 2008.

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

**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 PM10 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

**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> single event Low-Volume sampler, Federal Reference Method, samples once every third day. 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

**Site: Institute**

Location: West Virginia State University, Institute, Kanawha County, WV  
MSA: Charleston, WV

Comment: Site is comprised of a 30 meter meteorological tower only and data is not reported to the Air Quality Subsystem. Because of safety concerns, this tower will be dismantled in 2008.

**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. See comments regarding PM<sub>2.5</sub> provided earlier in the document. This site is suitable for NAAQS comparisons. The DAQ is scheduled to begin every day PM<sub>2.5</sub> sampling in 2008.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> single event 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. See below for a discussion regarding the PM<sub>2.5</sub> speciation monitor located at this site. 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 every day. 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> monitor with Filter Dynamic Measurement System (FDMS).

Representative siting scale: Urban

Monitoring objective/site type: Population oriented

PM<sub>2.5</sub> Speciation

Speciation Met One Super SASS monitor. Samples on an every sixth day schedule. EPA is scheduled to install URG 3000N carbon monitor during 2009. However, the speciation monitor is being considered for relocation due to limited space availability. The carbon monitor is to be located with the speciation monitor regardless of the final site location.

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. See comments regarding PM<sub>2.5</sub> provided earlier in the document. This site is suitable for NAAQS comparisons. The DAQ is scheduled to begin every day PM<sub>2.5</sub> sampling in 2008. The air monitoring shelter is scheduled to be replaced in 2008.

Parameters monitored, sampling method, scale and purpose:

Particulates:

PM<sub>2.5</sub> single event 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 and certain Volatile Organic Compounds. Carbonyl sampling is scheduled to begin in 2008.  
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:

Tapered Element Oscillating Micro-Balance TEOM Series 1400/1400a continuous PM10 monitor. Data used only to generate an Air Quality Index for the area and is not reported to AQS.

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> single event 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> single event 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  
Measurement Scale: Urban  
Purpose: Population Exposure