

Ohio Air Monitoring Network 2012-2013

6/29/2012

Requirements

As required by 40 CFR 58.10, Ohio EPA is providing an annual monitoring network plan for public review and comments. Ohio EPA will submit this plan with comments to the US EPA Region V Regional Administrator. There will be a 30 day comment period for the public to make comments on the plan and those comments will also be submitted to Region V. The Ohio Air Monitoring Network as it exists as of July 1, 2012 is included in the accompanying table.

Changes

The plan for Ohio's Air Monitoring Network for 2012-2013 is to make changes as required or necessary for the air monitoring network.

For sites that monitor for very fine particulate matter or PM_{2.5}, Ohio EPA expects to continue with monitoring or sampling for the PM_{2.5} Federal Reference Method at most of the sites as they existed at the beginning of 2012. Some changes that are not listed in these plans that will be posted by July 1, 2012 could occur in 2012 or 2013 as a result of the change in funding from 103 funds to 105 funds. Some Ohio local air agencies and state district offices may desire to operate fewer PM_{2.5} sites or monitors because of reduced funding availability for 2013.

The ozone monitoring sites will have few changes for 2012. An analysis of ozone sites made by the Lakes Area Director's Consortium (LADCO) in 2010 concluded that Ohio already has sufficient ozone monitoring sites to cover current requirements.

PM₁₀ sampling sites in Ohio were reduced by at least 6 industrial sites in 2011. Further reductions for PM₁₀ may occur in Ohio in future years.

Unplanned site changes occur to the network each year. Changes or temporary interruptions of sampling may occur because of events such as building or roof maintenance, construction, change of ownership of the site or other changes at the site that require moving the instruments. Some changes that are planned may include adding additional sites for complaint areas or for a new or proposed facility. Other changes that are planned may not actually happen because a new site cannot be secured or because of budget constraints.

New Federal requirements for monitoring for sulfur dioxide, nitrogen dioxide and carbon monoxide air pollutants were set in 2009.

Requirements for several SO₂ sites in specific counties names by US EPA in the 2009 requirements are likely to be met by moving some existing sites if necessary and by discussion with West Virginia officials about which state will operate a site in a required area. Ohio will work on those plans in the second half of 2012.

Three new National Core Monitoring Network (NCORE) sites have started operating in Ohio in recent years in Cincinnati, Cleveland and Dayton agency jurisdictions. These NCORE sites monitor for sulfur dioxide, nitrogen oxides and carbon monoxide at trace concentration levels were required to start January 1, 2011 but all started earlier than that date. Those sites added lead samplers to their sites that began January 1, 2012.

All site and parameter changes are made in consultation with and approval of the US EPA Region 5 air monitoring staff.

Guidance and Priorities

Ohio EPA follows the federal general guidance for air monitoring according to 40 CFR 58 Appendix D to monitor in areas of 1) expected high concentrations, 2) areas of high population density, 3) areas with significant sources, 4) general background concentration sites and 5) areas of regional transport of a pollutant. Not all air pollutants have sites for all of these categories.

In addition to the above guidance the Air Directors in the Region 5 states of Ohio, Michigan, Indiana, Illinois, Wisconsin and Minnesota in 2010 listed air monitoring objectives as:

- 1) Areas of high concentration and high population, provide timely air quality data to the public, support compliance with NAAQS and control strategy development and support air pollution research studies
- 2) Multi-pollutant monitoring such as the NCore sites
- 3) Source-oriented monitoring such as required monitoring for lead, nitrogen dioxide and sulfur dioxide
- 4) Rural monitoring and medium size city monitoring
- 5) Environmental justice monitoring
- 6) School air toxics monitoring

A fundamental consideration for all air monitoring projects and sites is that funding resources be available to operate and maintain the sites and equipment, to provide sample analyses and for data collection and reporting. An important funding change coming for very fine particulates or PM_{2.5} is that the funding is changing from a Section 103 grant that is fully federally funded to a Section 105 grant that requires a state or local agency matching amount. This change may limit the types and numbers of PM_{2.5} sampling that the state or local agency is able to support.

As of the time of publication of this list Ohio EPA plans to discontinue monitoring or has already discontinued monitoring at locations as shown in the table at:

2 very fine particulate matter or PM_{2.5} sites, Southwest Ohio
1 CO site, Cleveland

Ohio EPA has moved or started sites and instruments for:

- 3 PM2.5 FRM sites, Akron, Southwest Ohio, Cleveland
- 1 PM2.5 continuous sites, Southwest Ohio
- 1 sulfur dioxide site, SEDO
- 1 ozone site, Akron
- 2 TSP for lead/metals sites, Cleveland, NWDO

For new requirements from July , 2009 for PWEI sulfur dioxide monitoring sites to be in place by January 1, 2013 Ohio EPA has tentative plans to either continue SO2 monitor monitoring sites, to move existing monitoring sites or add/ restart new monitoring sites as follows:

- 2 sites in Cincinnati to continue
- 2 sites in Cleveland to continue
- 1 site operated by West Virginia in Parkersburg to continue, 1 SO2 monitor in Marietta/SEDO may be added
- 1 site to continue in Belmont Co./Wheeling area
- 1 site to continue in Steubenville
- 1 site to be added or restarted in Columbus
- 1 site to be added or restarted in Toledo
- 1 site to be added or moved near Point Pleasant, W. Va./ SEDO
- 1 site to be added or restarted in Dayton

Depending upon new monitoring requirements for ozone sites to be in place possibly in 2013, Ohio EPA has tentative plans to add ozone monitoring sites as follows:

- 1 site in Mansfield/NWDO
- 1 site in Sandusky/NWDO

These plans are dependent upon securing adequate levels of funding to support the changes to the air monitoring network. All of the plans are subject to approval by US EPA.

For questions about the Ohio Air Monitoring Network please contact:
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Hamco DES	Butler Co.								
39-017-0003	Verity HS, Middletown	39.493611	-84.353889	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 BGI FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				VOCs	GC MS	1 in 12 day			
39-017-0004	Schuler & Bender Ave, Hamltn	39.383333	-84.54416	Ozone	U.V. Photometric	Continuous	Population	Urban	
39-017-0015	3901 Lefferson, Middletown	39.489167	-84.357778	PM10-Colo	Gravimetric	1 in 6 day	Population	Neighborhood	
				TSP lead-metals Colo	ICP	1 in 6 day	Population	Neighborhood	Colo TSP added1/1/2011
39-017-0016	S. Heart 400 NillesRd, Fairfield	39.338333	-84.566389	PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Urban	
39-017-0018	Hook Field Airport, Middletwn	39.529444	-84.393453	Ozone	U.V. Photometric	Continuous	Population	Urban	
39-017-0019	Amanda School	39.478849	-84.407675	PM10 –Low Volume	Gravimetric	1 in 6 day	Source oriented	Neighborhood	Started 6/1/11
				PM2.5 VSCC FRM	Gravimetric	1 in 3 day	Source oriented	Neighborhood	Started 6/1/11
				PM2.5 – SHARP	Beta attenuation	Continuous	Source oriented	Neighborhood	Starting 6/30/11
				Sulfur dioxide	Pulsed Florescence	Continuous	Source oriented	Neighborhood	Starting 6/30/11
				VOC	GC/MS	1 in 12 day	Source oriented	Neighborhood	Starting 6/30/11
39-017-0020	Yankee Road	39.472436	-84.394952	PM10-low volume	Gravimetric		Population	Neighborhood	Started 6/1/11
				PM2.5 FRM	Gravimetric		Population	Neighborhood	Started 6/1/11
				PM2.5 – SHARP	Beta attenuation	Continuous	Population	Neighborhood	Started 6/30/11
				Sulfur dioxide	Pulsed Florescence	Continuous	Population	Neighborhood	Started 6/30/11
				VOC					Started 6/30/11
	Clermont Co.								
39-025-0022	2400 Clermont Drive, Batavia	39.083056	-84.144167	PM2.5 VSCC.FRM	Gravimetric	1 in 6 day	Population	Neighborhood	Discontinued 2012
				PM2.5 TEOM FDMS	Oscillating crystal	Continuous	Population	Neighborhood	
				Ozone	U.V. Photometric	Continuous	Highest conc.	Urban	
	Hamilton Co.								
39-061-0006	11590 Grooms Rd.,Sycamore	39.279444	-84.366389	PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 BAMS	Beta Attenuation	Continuous	Population	Neighborhood	Restarted 3/1/11
				Ozone	U.V. Photometric	Continuous	Highest conc.	Urban	
39-061-0010	6950 Ripple Rd. Colerain	39.216389	-84.699722	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
				Ozone	U.V. Photometric	Continuous	Population	Urban	
				PM2.5 Continuous	Beta Attenuation	Continuous			Start 7/1/2011
				PM2.5 Seq.FRM	Gravimetric	1 in 3 day			Start 7/1/2011

Cleveland	Cuyahoga Co.								
39-035-0034	891 E. 152 St.	41.555000	-81.575000	PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Highest conc.	Urban	
				Ozone	U.V. Photometric	Continuous	Population	Neighborhood	
39-035-0038	St. Theodosius, St. Tikon St.	41.476944	-81.681944	PM10	Gravimetric	1 in 3 day	Highest conc.	Neighborhood	
				PM2.5 SeqFRMColo	Gravimetric	1 in 1 day	Population	Neighborhood	
				PM2.5 TEOMFDMS	Oscillating crystal	Continuous	Population	Neighborhood	Discontinue 5/31/2011
				TSP lead-metals	ICP	1 in 6 day	Highest conc.	Neighborhood	
				Sulfur dioxide	Pulsed Fluorescence	Continuous	Highest conc.	Neighborhood	
				PM2.5 speciation	Ion Chromatograph	1 in 6 day	SIP info		
				Wind speed/dir					
39-035-0042	Fire Station 4, 3136 Lorain	41.482222	-81.708889	TSP-metals Colo	ICP	1 in 6 day	Highest conc	Middle	
39-035-0045	FS 13, 4950 Broadway Ave.	41.471667	-81.657222	PM10 Colo	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 Seq.FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
39-035-0049	Ferro Corp. E. 56 th St.	41.446667	-81.651111	TSP-leadmetals Colo	ICP	1 in 6 day	Highest conc.	Neighborhood	
39-035-0051	Galleria, E. Ninth & St. Clair	41.504444	-81.690278	Carbon monoxide	Infrared	Continuous	Highest conc.	Microscale	
39-035-0053	4160 Pearl Rd. ,Broadview	41.441667	-81.703889	Carbon monoxide	Infrared	Continuous	Highest conc.	Microscale	Discontinue 10/27/2011
39-035-0060	GT Craig, E. 14 th & Orange	41.491944	-81.678333	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	Restart 9/1/10
				PM10 TEOM	Oscillating crystal	Continuous		Neighborhood	
				PM2.5 Seq.FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 TEOM FDMS	Oscillating crystal	Continuous	Population	Neighborhood	
				PM2.5 spec. Colo	Ion Chromatograph	1 in 3 day	SIP info		
				Carbon speciation					URG-3000
				TSP lead-metals	ICP	1 in 6 day	Highest conc.	Neighborhood	Start 11/1/2011
				Ozone	U.V. Photometric	Continuous	Population	Neighborhood	Start 7/28/09 by US EPA
				VOCs	GC MS	1 in 12 day			
				Sulfur dioxide	Pulsed Fluorescence	Continuous			NCore
				NOy	Chemiluminescence	Continuous			NCore
				Carbon monoxide	Carbon monoxide	Infrared			NCore
				PM10-2.5 Coarse	Gravimetric	1 in 3 day			NCore
				Wind speed/wind dir.	Sonic				
39-035-0061	South side W. 3 rd St.	41.472222	-81.675278	TSP-lead-metals	ICP	1 in 6 day	Source-oriented	Middle	

39-035-0064	390 Fair St. Berea BOE	41.361667	-81.864722	Ozone	U.V. Photometric	Continuous	Highest conc.	Neighborhood	
39-035-0065	4600 Harvard Ave Newburgh	41.446389	-81.661944	PM10	Gravimetric	1 in 6 day	Highest conc.	Neighborhood	
				PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				Sulfur dioxide	Pulsed Fluorescence	Continuous	Highest conc.	Neighborhood	
39-035-0069	Fire S. 22, 7300 Superior	41.519181	-81.637939	VOCs	GC MS	1 in 12 day			
39-035-0072	26565 Miles Rd.,Warrensville	41.42585	-81.49078	TSP-Lead	ICP	1 in 6 day	Source oriented	Neighborhood	New lead site
39-035-1002	16900 Holland Road	41.395556	-81.818056	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
39-035-5002	6116 Wilson Road, Mayfield	41.536667	-81.459167	Ozone	U.V. Photometric	Continuous	Population	Urban	
RAPCA	Clark Co.								
39-023-0001	5171 Urbana Rd., Springfield	40.000833	-83.804444	Ozone	U.V. Photometric	Continuous	Highest conc.	Urban	
39-023-0003	5400 Spangler Rd., Enon	39.855556	-83.997500	Ozone	U.V. Photometric	Continuous	Highest conc.	Neighborhood	
				Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
39-023-0005	350 N. Fountain Rd.,Springfield	39.928889	-83.809722	PM2.5 Sharp	Beta attenuation	Continuous	Population	Neighborhood	
				PM2.5 BGI FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
	Greene Co.								
39-057-0005	100 Dayton Rd. YellowSprings	39.808056	-83.886944	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 BGI FRMcolo	Gravimetric	1 in 3 day	Population	Neighborhood	New colo 10/6/2011
				PM2.5 Sharp	Beta attenuation	Continuous	Population	Neighborhood	
39-057-0006	541 Ledbetter Rd., Xenia	39.665556	-83.943333	Ozone	U.V. Photometric	Continuous	Highest conc	Urban	
	Miami Co.								
39-109-0005	3825 N. Rt. 589, Castown	40.084722	-84.114722	Ozone	U.V. Photometric	Continuous	Highest conc	Urban	
	Montgomery Co								
39-113-0028	901 W. Fairview, Dayton	39.787222	-84.226111	Carbon monoxide	Infrared	Continuous	Population	Neighborhood	Discontinue 6/30/11
39-113-0032	215 E. 3 rd St., Dayton Library	39.760278	-84.187778	PM2.5 FRM -Colo	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 Sharp	Beta attenuation	Continuous	Population	Neighborhood	
				PM2.5 speciation	Ion Chromatograph	1 in 6 day	SIP information		
				Chem speciation	Carbon speciation				Not operating
39-113-0034	117 S. Main St., Dayton	39.757778	-84.191667	Carbon monoxide	Infrared	Continuous	Highest conc	Microscale	

39-113-0037	1401 Harshman Rd., Dayton	39.7850	-84.1345	Ozone	U.V. Photometric	Continuous	Population	Urban	
39-113-7001	2728 Viking Lane, Moraine	39.714167	-84.218056	PM10 –Colo	Gravimetric	1 in 6 day	Highest conc	Neighborhood	
				TSP-Pb,metals-Colo	ICP	1 in 6 day	Source oriented	Neighborhood	New colo metals site
	Preble Co.								
39-135-1001	St. Rt. 40, New Paris	39.835556	-84.720833	PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Regional	
				PM2.5 Sharp	Beta attenuation	Continuous	Regional trasprt	Urban	
				Ozone	U.V. Photometric	Continuous		Regional	
				Sulfur dioxide	Pulsed Fluorescence	Continuous			NCore
				Carbon monoxide	Infrared	Continuous			NCore
				NOy	Chemiluminescence	Continuous			NCore
				PM10-2.5 Coarse	Gravimetric				NCore
				PM10 – LC-colo	Gravimetric				NCore
				Carbon elemental					NCore
				Wspeed/WDir					
MTAPCA	Mahoning Co.								
39-099-0005	Elm & Madison, Fire Station #7	41.111111	-80.645278	PM10-colo	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 SeqFRM Colo	Gravimetric	1 in 6 day	Population	Neighborhood	
39-099-0006	Superior & Oakland, Fire St. 5	41.116667	-80.669722	PM10-colo	Gravimetric	1 in 6 day	Population	Neighborhood	
39-099-0013	345 Oakhill Ave. Youngstown	41.096111	-80.658611	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
				Ozone	U.V. Photometric	Continuous	Population	Neighborhood	
39-099-0014	345 Oakhill Ave. Youngstown	41.095868	-80.658426	PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 TEOM	Oscillating crystal	Continuous	Population	Neighborhood	
				Chem Speciation	Ion Chromatograph	1 in 6 day	SIP info		
	Trumbull Co.								
39-155-0005	540 Laird Ave., Warren	41.230833	-80.801944	PM10-Colo	Gravimetric	1 in 6 day	Source-oriented	Middle	
				PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 TEOM	Oscillating crystal	Continuous	Population	Neighborhood	
39-155-0006	Warren Water Treatment Plant	41.201944	-80.810550	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	
39-155-0009	Kinsman Township Bldg, SR87	41.453889	-80.591667	Ozone	U.V. Photometric	Continuous	Highest conc.	Urban	
39-155-0011	St. Rt. 193, Vienna, TCSEG	41.240077	-80.663142	Ozone	U.V. Photometric	Continuous	Reg. transport	Urban	
39-155-0012	2600Elmwood Dr.,Hubbard	41.17279	-80.422500	TSP-Lead	ICP	1 in 6 day	Source oriented	Urban	

NEDO	Ashtabula Co.								
39-007-1001	Conneaut Water Plt., Conneaut	41.959444	-80.572500	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Urban	
				Ozone	U.V. Photometric	Continuous	Population	Urban	
	Columbiana Co.								
39-029-0019	Columbiana PortAuthority,E.L.	40.631111	-80.546944	TSP-lead-metals	ICP	1 in 6 day	Population	Neighborhood	
39-029-0020	Water Treat. Plant, E.Liverpool	40.639722	-80.523889	TSP-lead-metals	ICP	1 in 6 day	Population	Neighborhood	
				PM10	Gravimetric	1 in 3 day	Population	Microscale	
				Wind speed/direction	Sonic				
39-029-0022	500 Maryland Ave,E.Liverpool	40.635000	-80.546667	TSP-leadmetals-Colo	ICP	1 in 6 day	Population	Microscale	
				Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Microscale	
				PM10 Colocated	Gravimetric	1 in 6 day	Population	Microscale	
	Lorain Co.								
39-093-0018	Fire Station, Sheffield	41.420882	-82.095729	Ozone	U.V. Photometric	Continuous	Population	Neighborhood	
39-093-3002	Barr School, Sheffield	41.463056	-81.114444	PM10 Colocated	Gravimetric	1 in 6 day			
				PM2.5Seq. FRMColo	Gravimetric	1 in 3 day	Source-oriented	Neighborhood	
				PM2.5 TEOM	Oscillating crystal	Continuous	Source-oriented	Neighborhood	RemoveFDMS8/31/2011
				Chemical speciation	Ion Chromatograph				
				Chemical speciation	Carbon speciation				URG-3000
NWDO	Allen Co.								
39-003-0002	Bath High. School, Lima	40.772222	-84.051944	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Urban	
				Ozone	U.V. Photometric	Continuous	Population	Urban	
				PM2.5 FRM	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 TEOM FDMS	Oscillating crystal	Continuous	AQI	Neighborhood	
39-003-0006	Nat.Lime/Stone,FindlyRdLima	40.752500	-84.085556	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	Discontinued 3/31/11
39-003-0007	Nat.Lime/Stone,RouchRd Lima	40.752500	-84.070000	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	“
39-003-0008	Nat.Lime/Stone, NorthStLima	40.744167	-84.093889	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	Discontinued 3/31/11
	Fulton Co.								
39-051-0001	Van Buren St., Delta	41.575278	-83.996389	TSP-leadmetals Colo	ICP	1 in 6 day	Highest conc.	Microscale	“
	Hancock Co.								
39-063-0002	Nat.Lime/Stone,CR313Findlay	41.010556	-83.688056	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	“
39-063-0003	Nat.Lime/Stone,CR313Findlay	41.012778	-83.696944	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	“

39-063-0004	Nat.Lime/Stone,CR144Findlay Marion Co.	41.023611	-83.685556	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	“
39-101-0003	Nucor Steel, Hawthorne Ave.	42.57141	-83.13556	TSP-lead	ICP	1 in 6 day	Source-oriented	Neighborhood	New required site
39-101-0004	640 Bellefontaine Ave. Ottawa Co.			TSP-metals	ICP	1 in 6 day	Source-oriented	Neighborhood	New site 1/1/2012
39-123-0014	Brush Wellman, Elmore Wood Co.			TSP – beryllium	ICP	7daysample			
39-173-0003	NWDO Office,Bowling Green	41.378056	-83.611667	Ozone	U.V. Photometric	Continuous	Other	Urban	
SEDO	Athens Co.								
39-009-0003	St. Rt. 377, Gifford Forest Belmont Co.	39.442500	-81.908611	PM2.5 Seq. FRM	Gravimetric	1 in 6 day	Background	Regional	Background 2.5 site
39-013-3002	E. 40 th St. Shadyside Treatment Jefferson Co.	39.968056	-80.747500	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
39-081-0001	1004 3 rd St., Brilliant	40.261389	-80.633611	PM10	Gravimetric	1 in 6 day	Population	Neighborhood	
39-081-0017	618 Logan St. , Steubenville	40.366104	-80.615002	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Neighborhood	
				PM10-colo	Gravimetric	1 in 6 day	Population	Neighborhood	
				PM2.5 Seq. FRM	Gravimetric	1 in 3 day	Population	Neighborhood	
				PM2.5 BAM	Beta attenuation	Continuous	AQI	Neighborhood	BAMreplcedTEOM 7/13
				Ozone	U.V. Photometric	Continuous	Population	Neighborhood	
				VOCs	GC MS	1 in 12 day			
39-081-1001	City Hall, Mingo Junction	40.321944	-80.606389	PM2.5 Seq. FRMcolo	Gravimetric	1 in 3 day	Population	Neighborhood	
				Carbon speciation			SIP info		URG-3000
				Chem Speciation	Ion Chromatograph	1 in 6 day	SIP info		
				VOCs	GC MS	1 in 12 day			
39-081-0018	3487 Cnty Rd. 19, Brilliant			Sulfur dioxide	Pulsed Fluorescence	Continuous			Started 1/1/11
39-081-0019	Landfill Access Rd., Brilliant			WS,WD		Continuous			Started 1/1/11
				Sulfur dioxide	Pulsed Fluorescence	Continuous			
39-081-0020	1469 Third St., Brilliant			WS,WD		Continuous			Started 1/1/11
				Sulfur dioxide	Pulsed Fluorescence	Continuous			Started 1/1/11
	Meigs Co.								
39-105-1001	Veterans Hospital, Pomeroy	39.037778	-82.045556	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Urban	Ended 6/30/2011
39-105-0003	117 Memorial Dr., Pomeroy	39.03849	-82.0459	Sulfur dioxide	Pulsed Fluorescence	Continuous	Population	Urban	Replced Vet.Hos.7/13/11

Notes/Explanations:

AQS is the Air Quality System maintained by US EPA for air quality data. In the AQS ID# the first 2 digits refer to the state. 39 is Ohio. The next 3 digits are the county within Ohio. The last 4 digits designate a specific site within the county.

All PM2.5 Seq. FRM sites, BGI FRM sites and BAMS sites are comparable to the PM2.5 NAAQS.

All Ozone sites are comparable to the NAAQS.

All sulfur dioxide, carbon monoxide and nitrogen dioxide sites are comparable to the NAAQS.

PM is Particulate Matter. PM10 means particulate matter of 10 microns in diameter or smaller. A micron is one millionth of a meter. PM2.5 is particulate matter 2.5 millionths of a meter in diameter or smaller. PM10 is fine particulate matter and PM2.5 is very fine particulate matter.

Monitoring instruments used for comparing to the National Ambient Air Quality Standards are designated as Federal Reference Methods (FRM) or Equivalent Methods.

PM2.5 Seq. FRM are samplers that sample for PM2.5 can hold multiple samples for Sequential sampling and are Federal Reference Methods (FRM).

Colocated or colo indicates a site with duplicate samplers for Quality Assurance purposes. Data is statistically compared from the two samplers for the same days. Duplicate samplers may sample at a 1 in 6 day schedule or possibly at a 1 in 12 day schedule.

Chem. Speciation sites are sites and samplers that collect PM2.5 samples that are analyzed for the chemical speciation make-up of the PM2.5 particulate matter.

U.V. Photometric indicates ultra-violet photometric, a method of detection for ozone concentrations.

U.V. fluorescence indicates ultra-violet fluorescence, a method of detection for sulfur dioxide concentrations.

VOCs are Volatile Organic Compounds. The method of collecting and analyzing whole air samples for VOCs is in Ohio is TO-15. The collection utilizes a stainless steel canister for subsequent analysis by gas chromatograph -mass spectrometer. There are approximately 72 compounds scanned for in the analysis.

TSP – metals is the method of collecting Total Suspended Particulate by drawing an air sample through a filter media that is then analyzed at a laboratory for airborne metals including lead, arsenic, cadmium, chromium, nickel, zinc, manganese and beryllium and sometimes particulate mercury. Analysis is by ICP or Inductively Coupled Plasma Emission Spectroscopy or Graphite Furnace Atomic Absorption.

BAM indicates a Beta Attenuation Monitor, a method of detection for very fine particulates.

TEOM indicates a Tapered Element Oscillating Microbalance, a method of detection for very fine particulates.

SIP is State Implementation Plan that details how the state will implement controls that will bring the area into attainment status for a particular National Ambient Air Quality Standard. Chemical speciation sampling and analysis for PM2.5 aids helps to determine what control measures and plans will best control fine particulates.

Ohio Air Monitoring Agencies

The following organizations perform ambient air quality sampling in Ohio within specific areas of the state:

Akron Regional Air Quality Management District 146 South High St. Akron, Ohio 44308 (330) 375-2480 Medina, Portage, Summit counties	City of Toledo Division of Environmental Services 348 South Erie St. Toledo, Ohio 43604 (419) 936-3015 Lucas County
Air Pollution Control Division Canton City Health Department 420 Market Ave. North Canton, Ohio 44702-1544 (330) 489-3385 Stark County	Mahoning-Trumbull APC Agency 345 Oak Hill Ave. Youngstown, Ohio 44502 (330) 743-3333 Mahoning, Trumbull counties
Hamilton County Dept. of Environmental Services 250 William Howard Taft Road Cincinnati, Ohio 44702-1544 (330)-489-3385 Hamilton, Butler, Warren, Clermont counties	Ohio EPA Central District Office 50 West Town St. Columbus, Ohio 43604 (614) 728-3778
Cleveland Department of Public Health & Welfare Division of the Environment 1925 St. Clair Ave. Cleveland, Ohio 44114 (216) 664-2324 Cuyahoga County	Ohio EPA Southeast District Office 2195 Front St. Logan, Ohio 43138 (740) 385-8501

<p>Regional Air Pollution Control Agency Montgomery County Health Department 117 South Main St. P.O. Box 972 Dayton, Ohio 45422-1280 (937) 225-4435 Montgomery, Preble, Darke, Miami, Clark, Greene</p>	<p>Ohio EPA Northeast District Office 2110 Aurora Rd. Twinsburg, Ohio 44087 (330) 425-9171</p>
<p>Air Pollution Unit Portsmouth City Health Department 605 Washington Street Portsmouth, Ohio 45662 (740) 353-5156 Brown, Adams, Scioto, Lawrence</p>	<p>Ohio EPA Southwest District Office 401 East Fifth St. Dayton, Ohio 45402-2911 (937) 285-6357</p>