

Southwest Ohio Air Quality Agency 2016-2017 Annual Network Plan

This is the Annual Network Plan for the Southwest Ohio Air Quality Agency (SWOAQA). The detailed site plans attached include a list of the air pollutants to be monitored at each location, the collection method, schedule and start date for each pollutant, any proposed changes to the site or existing monitors, the major objective for each site, and the scale the monitoring represents. The list below summarizes the significant changes proposed for the SWOAQA monitoring network.

2016 Implemented Changes

- **End Ambient Temperature/Pressure Reporting for FRMs** – The Ambient Monitoring Rule was finalized in March 2016. This rule removed the requirement to report temperature and pressure measured by particulate FRMs. In last year's annual network plan, SWOAQA anticipated this change and requested to implement it for the low-volume PM2.5 and PM10 FRM monitors in its network in 2016 if this change was included in the final rule. The rule went into effect April 27, 2016, so this change was implemented for the intermittent particulate samplers at the following sites beginning May 1, 2016: Ohio Bell (39-017-0015), Sacred Heart School (39-017-0016), Amanda Elementary (39-017-0019), Yankee Road (39-017-0020), BPG (39-017-0022), Sycamore (39-061-0006), Colerain (39-061-0010), Carthage (39-061-0014), Taft (39-061-0040), and Lower Price Hill (39-061-0042). SWOAQA received an email on April 28, 2016 from USEPA Region 5 confirming this change could be implemented.
- **Verity and Ohio Bell move** – These sites were combined and moved to a ground-level location on the Ohio Bell (39-017-0015) property beginning April 1, 2016. PM2.5 and low-volume PM10 samplers were installed. VOC sampling at Verity (39-017-0003) and hi-volume PM10 and TSP (Pb and metals) monitors were discontinued at Ohio Bell after December 31, 2015, and there was a net reduction from two to one PM10 monitors between these two sites, per last year's network plan.
- **Taft PM10-Pb** – Taft (39-061-0040) NCore lead analysis was discontinued as of December 31, 2015, per last year's network plan and the new monitoring rule going into effect. The email from Region 5 on April 28, 2016 also confirmed that this change could be implemented.
- **PQAO change** – The PQAO for all the monitors in the SWOAQA network has been updated to the new Southwest Ohio PQAO (1455) effective January 1, 2015.
- **Carthage WINS change-out** – the WINS impactor was replaced with a VSCC on the Carthage (39-061-0014) designated and collocated Andersen RAAS-300 sequential PM2.5 monitors on April 1, 2016. The method code (155) was updated accordingly in AQS.
- **Meteorology QA** – SWOAQA is no longer attempting to perform internal audits of the meteorology equipment to meet QA requirement. The Agency has changed the QA approach for met equipment to annual recertification at the manufacturer beginning in 2016. This change is reflected in the QA comments at the bottom of the site templates where met equipment is operating.

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2016-2017 Planned Changes

- **Ozone Monitoring Season** – Ozone monitoring will begin March 1, 2017 to meet the requirements of the new ozone standard. The season will end October 31, 2017. The ozone monitoring season change will affect the following sites in the SWOAQA network: Hamilton (39-017-0004), Middletown (39-017-0018), Batavia (39-025-0022), Sycamore (39-061-0006), Colerain (39-061-0010), and Lebanon (39-165-0007)
- **Near Road PM2.5** – A new continuous PM2.5 FEM monitor will be added to the Cincinnati Near Road site (39-061-0048) by January 1, 2017.
- **Hamilton** – The Hamilton site (39-017-0004) (ozone) will need to be discontinued or moved either during the 2016 ozone season or before the 2017 season. SWOAQA is working on locating a new site. See the Hamilton plan for additional details.
- **Sycamore FEM** – The Sycamore (39-061-0006) FEM will become the primary monitor for the site and be used for NAAQS compliance determination beginning in 2017 if the results of the 2-yr comparability study which started in January 2015 are favorable. The FRM will reduce sample frequency from 1:3 to 1:6 if this is the case and will become the collocated monitor. If the FEM and FRM do not compare well, a follow-up request for continued NAAQS data exclusion of the FEM data will be made to USEPA Region 5, the FRM would remain primary and continue to sample on a 1:3 schedule. At this point, the comparability study looks good and the first scenario seems most likely.
- **Taft FEM** – The NAAQS exclusion for the Taft (39-061-0040) FEM monitor ends in March 2017. The FEM will not become the primary monitor for this site, but the data will be used for NAAQS compliance purposes beginning in 2017 for days the FRM does not run. If the Sycamore comparability study results are poor, a new data exclusion request will be made for the FEM data.
- **BPG** – The BPG (39-017-0022) PM2.5 monitor will change sampling frequency from 1:6 to 1:3 days starting either January 1 or April 1, 2017, depending on PM2.5 funding availability.
- **Carthage** – The Carthage PM2.5 sampler will change from an Andersen (method 155) to a BGI (method 142) beginning January 1, 2017. The collocated sampler will no longer be needed at this site to meet QA collocation requirements in the PQAO and the collocated sampler will be removed. There would be 12 BGI sites in the SW Ohio PQAO, which requires 2 collocated BGI monitors. There is currently a BGI collocated site at Taft in the SWOAQA network and another at a RAPCA site in Greene County.
- **Kibby Lane** – The Kibby Lane (39-061-0047) VOC monitor is currently required by a consent decree with a local industrial facility. The consent decree could end at any time and the sampling schedule will be decreased from 1:6 to 1:12 day monitoring immediately.

Please contact Anna Kelley at Anna.Kelley@hamilton-co.org or Christina Boss at Christina.Boss@hamilton-co.org with questions or comments regarding the Annual Network Plan for SWOAQA.