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SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

June, 29, 2016

Mr. Mark Hansen
Associate Director for Air
USEPA Region 6, 6MM-AA
1445 Ross Avenue
Dallas, Texas 75202-2733

RE: Louisiana 2016 Annual Monitoring Network Plan

Dear Mr. Hansen:

Attached is the 2016 Louisiana Annual Network Plan, submitted per 40 CFR, Part 58, Subpart B. On May 23, 2016, this plan was placed on 30-day public notice on the Louisiana Department of Environmental Quality's public website. No comments were received as of June 24, 2016.

The Department has successfully completed the setup the new Lafayette area ozone monitoring site (AQS#22-099-0001). The New Orleans Near-Road site is fully operational and currently monitors for NO_x, CO, PM_{2.5}, wind speed and wind direction and the traffic counter began collecting data on March 15, 2016.

EPA's Office of Air Quality Planning and Standards assessment of the chemical speciation network (CSN) found that the Shreveport Airport PM_{2.5} Speciation site (AQS#22-015-0008) was among the low scoring sites in the CSN assessment and could be discontinued. Therefore, LDEQ decommissioned the site with a final filter run date of March 19, 2016 and a final verification date of March 23, 2016. In addition, approval was given for the discontinuation of PAMS monitoring at the Pride and Bayou Plaquemine sites beginning May 1, 2016 and the last date 3 hour samples were taken at each site was April 30, 2016.

If you have any questions please do not hesitate to contact me at 225-219-3616 or Bob Bailey at 225-219-3719.

Sincerely,

Bryan P. Riche, Administrator
Assessment Division

jsz

Enclosure: 2016 Louisiana Annual Monitoring Network Plan

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2016 Louisiana Annual Monitoring Network Plan



**Louisiana Department of Environmental Quality
Office of Environmental Compliance
Assessment Division**

May 20, 2016

The Louisiana Department of Environmental Quality (LDEQ) maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A, designs its network in accordance with Appendix D, and locates its sites to meet all requirements of Appendix E. LDEQ's Air Field Services section operates State and Local Ambient Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Special Purpose Monitoring Stations (SPMS), and a National Core Network (NCore) Ambient Air Monitoring Station as a requirement of the Code of Federal Regulations (CFR), Title 40, Part 58. These stations measure ambient air concentrations of those pollutants for which standards have been established in 40 CFR Part 50. Data acquired from the stations are submitted into the EPA's Air Quality System (AQS) where it is compared to the National Ambient Air Quality Standards (NAAQS). Access to this information is available through EPA's website (www.epa.gov). Conformance of the network to 40 CFR 58 Appendix D (Network Design Criteria) and Appendix E (Probe and Path Siting Criteria) is determined using an Annual Review of the air quality surveillance system, as required for each state in 40 CFR 58.10. The location for this ruling is available in Docket ID No. EPA-HQ-OAR-2004-0018 in the <http://www.regulations.gov> index. The review is also used to ensure that the network is continuing to meet the objectives of the air monitoring program. The three basic objectives of the air monitoring program follow:

1. Provide air pollution data to the general public in a timely manner. Data can be presented to the public in a number of different ways including through air quality maps, newspapers, internet sites, and as a part of weather forecasts and public advisories.
2. Support compliance with ambient air quality standards and emissions strategy development. Data from the monitors for National Ambient Air Quality Standards (NAAQS) pollutants will be used for comparing an area's air pollution levels against the NAAQS. Data of various types can be used in the development of attainment and maintenance plans. Data can also be used to track trends to determine the impact of air pollution abatement control measures on improving air quality. In monitoring locations near major air pollution sources, source-oriented monitoring data can provide insight into how well industrial sources are controlling their pollutant emissions.
3. Support for air pollution research studies such as health effects assessments.

This review has several goals:

- Determine if the network requires any modifications to continue to meet its monitoring objective and data needs (through termination of existing stations, relocation of stations, or establishment of new stations); and
- Investigate ways to improve the network to ensure that it provides adequate, representative, and useful air quality data.

Monitoring Plans for July 2016-June 2017

Under EPA's NCore design guidelines, the state of Louisiana is required to operate one NCore level 2 site, which is the Capitol site. The remaining sites in the state will all be PAMS, SLAMS, Speciation Trends Network (STN), or SPMs. Table A summarizes number and type of monitors located in each Metropolitan Statistical Area (MSA) population. Table B lists specific information about analytes monitored at each site and the MSA covered by this location. Finally, Table C lists information regarding the PAMS network. The PAMS network plan exceeds the monitoring requirements with the air monitoring stations at Capitol (AQS# 22-033-0009) and Dutchtown (AQS# 22-005-0004) as PAMS sites. Approval was given for the discontinuation of PAMS monitoring at the Pride and Bayou Plaquemine sites beginning May 1, 2016 and the last date 3 hour samples were taken at each site was April 30, 2016.

Near-Road Monitoring

New Orleans, LA MSA

- The NOx analyzer at I-610 Near-Road in New Orleans (AQS #22-071-0021) began operation on March 18, 2014, while the Carbon Monoxide and PM2.5 Federal Reference Method (FRM) monitors started sampling on December 3, 2014. On February 27, 2015, the met tower was erected and the wind speed and wind direction parameters became operational. The traffic counter began collecting data on March 15, 2016.

Baton Rouge, LA MSA

- EPA's current regulatory requirements include the establishment of an NO2 near-road site in CBSA's of populations between 500K and 1M by January 1, 2017. The Baton Rouge CBSA falls into this population range as of the Census Bureau's 2014 estimates. Following air quality data review showing nitrogen dioxide (NO2) emission levels far below the NO2 national ambient air quality standards (NAAQS), EPA announced plans to end near-road NO2 emissions monitoring requirements for smaller cities. In a proposed rule signed by EPA Administrator Gina McCarthy on May 5, 2016, EPA intends to remove the existing requirement for metropolitan areas with populations between 500,000 and 1,000,000 people. EPA will take public comments on the proposed rule for 45 days following its publication in the Federal Register. Accordingly, and with the concurrence of EPA Region 6, we have placed a hold on the planning activities for this site. The LDEQ will continue to follow this issue and adjust our plans as further information becomes available from the EPA.

Ozone (O₃) Monitoring

Lafayette, LA MSA

- The setup of the new Lafayette MSA ozone monitoring site has been completed and the St. Martinville air monitoring site (AQS#22-0990-001) began collecting data on October 5, 2015.

Particulate Matter (PM) Monitoring

The following clarifications were requested by EPA in their response to the 2015 annual network plan submittal and the State responded in a letter dated October 28, 2015. They are also being included in this report as follows:

Particulate Matter of 2.5 Microns or Less (PM_{2.5})

Baton Rouge, LA MSA

- Bayou Plaquemine (AQS # 22-0470-009) PM_{2.5} FRM discontinued on 12/31/14.

Lake Charles, LA MSA

- Lake Charles McNeese University (AQS #22-019-0010) PM_{2.5} FRM monitor discontinued 12/31/14.

Particulate Matter of 10 Microns or More (PM₁₀)

Lafayette, LA MSA

- Lafayette USGS (AQS #22-055-0007) additional PM₁₀ BAM (Parameter Occurrence Code, POC-2) discontinued on 12/31/14.

Additional changes to the current network since the 2015 plan are as follows:

PM Speciation

Shreveport – Bossier City LA MSA

- EPA's Office of Air Quality Planning and Standards assessment of the chemical speciation network (CSN) found that the PM_{2.5} supplemental speciation at the Shreveport Airport site (AQS #22-015-0008) was among the low scoring sites in the CSN assessment and could be discontinued. LDEQ discontinued the supplemental speciation at the Shreveport Airport site with a final filter run date of March 19, 2016 and a final verification date of March 23, 2016. LDEQ has requested guidance from the region regarding entering the end date in AQS due to the complexity of speciation data in AQS. LDEQ will collaborate with EPA on future monitoring in an area that could provide critical data for the state of Louisiana.

Volatile Organic Compound (VOC) Special Purpose Monitors (SPMs)

Baton Rouge, LA MSA

- LDEQ received approval to stop PAMS monitoring at Pride (AQS #22-033-0013) and Bayou Plaquemine (AQS #22-047-0009) beginning May 1, 2016 in a letter dated April 1, 2016. The 24 hour sample once every 6 days, the 55C methane/NMOC, and any triggered canisters will all remain. Other canisters and the Xontek and GC NMHC at Bayou Plaquemine and Pride were shut down on May 9, 2016, with the last three hour sample being taken on April 30, 2016.

The following changes have been made to this report regarding Volatile Organic Compound (VOC) Special Purpose Monitors (SPMs) after discussion and comments from the 2015 Annual Monitoring Network Plan.

Federal funds are not used for the operation of each of the following VOC SPMs, therefore these monitors will not be included in this or any future annual network plans. We will continue to include all monitors that are required for Photochemical Assessment Monitoring Stations (PAMS) in the AMNP as requested.

<u>Site Name</u>	<u>AQS Site ID</u>	<u>Pollutant Measured</u>	<u>Station Type</u>
LSU	22-033-0003	VOC	SPM
Carville	22-047-0012	VOC	SPM
French Settlement	22-063-0002	VOC	SPM
Port Allen	22-121-0001	VOC	SPM
Westlake	22-019-0008	VOC	SPM
Chalmette Vista	22-087-0007	VOC	SPM
Lake Charles	SPECIAL3	VOC	SPM
Southern University	22-033-2002	VOC	SPM
Bayou Plaquemine	22-047-0009	VOC	SPM
Pride	22-033-0013	VOC	SPM

Sulfur Dioxide (SO₂)

In response to the Sulfur Dioxide Data Requirements Rule published on August 21, 2015, LDEQ is proposing possible monitoring sites around nine Sulfur Dioxide emitting facilities. These facilities are:

- Oxbow Calcining LLC Baton Rouge Calcined Coke Plant-East Baton Rouge Parish
- Sid Richardson Carbon Company Addis Plant- West Baton Rouge Parish
- Rain CII Carbon LLC Norco Coke Plant- St. Charles Parish
- Rain CII Carbon LLC Gramercy Coke Plant- St. James Parish
- Reynolds Metals Co Lake Charles Carbon Co- Calcasieu Parish
- Entergy Gulf States LA LLC Nelson Industrial Steam Co (NISCO) - Calcasieu Parish
- Rain CII Carbon LLC Lake Charles Calcining Plant- Calcasieu Parish
- Entergy Gulf States LA LLC Nelson Electric Generating Plant- Calcasieu Parish
- CLECO Brame Energy Center- Rapides Parish

We are estimating 2 monitors near each facility located in areas of high concentration and/or high frequency. These locations will be determined from modeling done according to the Source-Oriented Sulfur Dioxide (SO₂) Monitoring Technical Assistance Document (February 2016 Draft), Appendix W of 40 CFR Part 51, meeting the requirements of Appendix E of 40 CFR Part 58, and with approval from EPA. This plan may be updated as further information is obtained.

Additional Information

LDEQ plans to continue monitoring at the following sites:

- Baker Lead (Pb) site (AQS # 22-033-00144) will continue operation until the demolition and remediation activities at the nearby Exide recycle site are completed and LDEQ will keep EPA informed of the status. Any future request for a system modification under 40 CFR 58.14 will be submitted to the Region along with the appropriate technical analysis for any future planned discontinuation of the monitor.
- Continue to operate the Vinton (AQS #22-019-0009) PM2.5 FRM due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.
- Continue to operate PM2.5 FRM at Alexandria (AQS #22-079-0002) for regional background.
- Continue to operate the ozone monitor at the Monroe site (AQS #22-073-0004) to maintain ozone monitoring coverage for the Northeast regional area.
- Continue to operate the PM2.5 FRM monitor at Geismar (AQS # 22-047-0009) due to the proximity of industry in the area to provide oversight of ambient air conditions in this industrial area.

In the event of projected budget cuts for fiscal year 2016/2017, LDEQ and EPA will work closely to minimize the impact of the cuts and to ensure continued public health.

Table A. Type and Number of Monitors Per Metropolitan Statistical Area (MSA)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
1,000,000-4,000,000	<i>New Orleans</i>			
	Ozone	2	5	5
	Nitrogen Oxides	2	2	2
	Sulfur Dioxide	1	2	2
	Carbon Monoxide	1	1	1
	PM2.5 FRM	2	4	4
	PM2.5 continuous	2	4	4
	PM10	2-4	2	2
	Lead	1	1	1
	350,000-1,000,000	<i>Baton Rouge</i>		
Ozone		6	9	9
Nitrogen Oxides		4	6	6
Trace Level reactive Nitrogen Oxides; NOy		2	2	2
Sulfur Dioxide		1	1	1
Trace Level Sulfur Dioxide		1	1	1
PM2.5 FRM		2	4	4
PM2.5 Speciation		1	1	1
PM2.5 continuous		1	2	2
PM10		1-2	1	1
	PM Coarse	1	1	1
	Lead	1	2	2
	Carbon Monoxide	0	0	0
	Trace Level Carbon Monoxide	1	1	1
	PAMS	0	2	2

¹Metropolitan Statistical Area, July 1, 2015, United States Census Bureau
<http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>
<https://www.census.gov/popest/data/metro/totals/2015/index.html>

Table A. (cont.)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network	
350,000-1,000,000	<i>Shreveport</i>				
	Ozone	2	2	2	
	Sulfur Dioxide	1	1	1	
	PM2.5 FRM	1	1	1	
	PM2.5 continuous	1	1	1	
	PM2.5 Speciation	0	0	0	
	PM10	0-1	1	1	
350,000-1,000,000	<i>Lafayette</i>				
	Ozone	2	2	2	
	PM2.5 FRM	1	1	1	
	PM2.5 continuous	1	1	1	
	PM10	1-2	1	1	
	50,000-350,000	<i>Lake Charles</i>			
		Ozone	1	2	2
Nitrogen Oxides		1	1	1	
Sulfur Dioxide		1	1	1	
PM2.5 FRM		0 ²	1	1	
PM2.5 continuous		0	1	1	
<i>Alexandria</i>					
50,000-350,000	PM2.5 FRM	0 ²	1	1	
	PM2.5 continuous	0	0	0	
	Ozone	0	0	0	

¹Metropolitan Statistical Area, July 1, 2015, United States Census Bureau
<http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>
<https://www.census.gov/popest/data/metro/totals/2015/index.html>²No monitor required based on most recent 3-year design value <85% of NAAQS

Table A. (cont.)

MSA/CSA Population ¹	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
50,000-350,000	<i>Monroe</i>			
	Ozone	0	1	1
	Sulfur Dioxide	0	0	0
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	0	0
50,000-350,000	<i>Houma / Thibodaux</i>			
	Ozone	1	1	1
	PM2.5 FRM	0 ²	1	1
	PM2.5 continuous	0	1	1
	<i>Other Areas</i>			
50,000-350,000	<i>Hammond –FRM</i>	1	1	1

¹Metropolitan Statistical Area, July 1, 2015, United States Census Bureau
<http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>
<https://www.census.gov/popest/data/metro/totals/2015/index.html>

²No monitor required based on most recent 3-year design value <85% of NAAQS

Table B. Site Specific Monitor Information

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Alexandria 22-079-0002	8105 Tom Bowman Dr	Lat = 31.18 Long = -92.41	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	General Background	Regional	Yes	Alexandria
Baker LSP 22-033-0014	1400 West Irene Rd	Lat = 30.59 Long = -91.25	Lead	SLAMS	Gravimetric	Every 6 th day	Source Oriented	Neighbor- hood	Yes	Baton Rouge
Capitol 22-033-0009	1061-A Leesville Ave.	Lat = 30.46 Long = -91.18	PM2.5	SLAMS NCORE	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every day	High Pop. Density	Neighbor- hood	Yes	Baton Rouge
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 12 th day	High Pop. Density		Yes	
			PM2.5	SLAMS NCORE	Continuous BAM 1020 Meth. Code: 170	Continuous	High Pop. Density		Yes	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			PM2.5	STN NCORE	Chemical Speciation SASS Teflon Gravimetric, Meth. Code 810 URG 3000N Meth. Code 839	24 hrs every 3 rd day	High Pop. Density		No	
			SO ₂ Trace-level	SLAMS NCORE	U.V.	Continuous	High Pop. Density		Yes	
			Ozone	SLAMS NCORE	Fluorescence U.V. Absorption	Continuous	High Pop. Density		Yes	

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Capitol (cont.)	1061-A Leesville Ave.	Lat = 30.46 Long = -91.18	CO Trace- level	PAMS NCORE	Nondispersive Infrared	Continuous	High Pop. Density	Neighbor- hood	No	Baton Rouge
			NOx	SLAMS NCORE	Chemilumin- escence	Continuous	High Pop. Density RA40		Yes	
			NOy Trace- level	PAMS NCORE	Chemilumin- escence	Continuous	High Pop. Density		No	
LSU 22-033-0003	East End Aster Lane	Lat = 30.42 Long = -91.18	VOC	PAMS SLAMS	Canisters; Trigger Canisters	8 3-hr samples daily during ozone season and every 6 th day otherwise, also 24 hrs every 6 th day; 2.5 min when triggered	High Pop. Density	Middle	No	Baton Rouge
			Lead	SLAMS NCORE	Gravimetric	Every 6 th day	High Pop. Density		Yes	
			PM Coarse	SLAMS NCORE	Continuous BAM 1020 Meth. Code: 185	Continuous	High Pop. Density		No	
Bayou Plaquemine 22-047-0009	65180 Bellevue Rd.	Lat = 30.22 Long = -91.32	Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			NOx	SLAMS	Chemilumin- escence	Continuous	High Pop. Density		Yes	
			NOy Trace- level	SLAMS	Chemilumin- escence	Continuous	High Pop. Density		No	
Carlyss 22-019-0002	Hwy 28 & Hwy 108	Lat = 30.14 Long = -93.37	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Lake Charles
Carville 22-047-0012	Hwy 141	Lat = 30.22 Long = -91.13	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Regional	Yes	Baton Rouge

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Convent 22-093-0002	St. James Courthouse Hwy 44 @ Canatella	Lat = 29.99 Long = -90.82	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neigh- bor- hood	Yes	New Orleans
Dixie 22-017-0001	Haygood Rd.	Lat = 32.68 Long = -93.86	Ozone	SLAMS	U.V. Absorption	Continuous	High	Urban	Yes	Shreveport
Dutchtown 22-005-0004	11153 Kling Rd.	Lat = 30.2383 Long = -90.97	Ozone	PAMS SLAMS	U.V. Absorption	Continuous	General Background	Neigh- bor- hood	Yes	Baton Rouge
			NOx	PAMS SLAMS	Chemilumin- escence	Continuous	General Background		Yes	
			VOC	PAMS SLAMS	Canisters; Trigger Canisters	4 3-hr cans every 3 rd day ozone season and 8 3-hr cans every 6 th day, 24 hour canister once every 6th day otherwise 25 min when triggered	Population Oriented		No	
French Settlement 22-063-0002	16627 Perrilloux Ln @ Hwy 16	Lat = 30.32 Long = -90.81	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration General Background	Neigh- bor- hood	Yes	Baton Rouge
			Ozone	SPMS	U.V. Absorption	Continuous	High Concentration General Background		Yes	
			PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	General Background		No*	

* PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

Site Name AQIS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Garyville 22-095-0002	152 Anthony F. Monica St.	Lat = 30.06 Long = -90.62	Ozone	SLAMS	U. V. Absorption	Continuous	General Background	Regional	Yes	New Orleans
Geismar 22-047-0005	Hwy 75	Lat = 30.24 Long = -91.06	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Baton Rouge
Hammond 22-105-0001	21549 Old Covington Hwy	Lat = 30.50 Long = -90.38	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Hammond
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 12 th day	High Pop. Density	Neighbor- hood	Yes	
Houma 22-109-0001	4047 West Park Ave. at Hwy 24	Lat = 29.68 Long = -90.78	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Houma/ Thibodaux
Kenner 22-051-1001	100 West Temple Pl.	Lat = 30.04 Long = -90.27	NOx	SLAMS	Chemilumin- escence	Continuous	High Pop. Density Area-wide	Urban	Yes	New Orleans
			Ozone	SLAMS	U. V. Absorption	Continuous	High Concentration	Urban	Yes	
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	Every 6 th day	High Pop. Density	Urban	Yes	
			PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	High Pop. Density	Urban	No*	

* PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Lafayette USGS 22-055-0007	700 Cajundome	Lat = 30.2383 Long = -92.04	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Lafayette
			PM2.5	SPMS	Continuous BAM 1020 Meth. Code: 170	Continuous	High Pop. Density		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
LaPlace 22-095-0003	115 Garden Grove	Lat = 30.04 Long = -90.46678	Lead	SLAMS	Gravimetric	Every 6 th day	Source Oriented	Middle	Yes	New Orleans
			Lead	SLAMS	Gravimetric (Collocated)	Every 12 th day			Yes	
Madisonville 22-103-0002	1421 Hwy 22 West	Lat = 30.43 Long = -90.20	Ozone	SLAMS	U.V. Absorption	Continuous	Source Oriented	Neighbor- hood	Yes	New Orleans
			PM2.5	SPMS	Continuous TEOM Series1400a Meth. Code: 715	Continuous	Source Oriented		No*	
Marrero 22-051-2001	Patriot & Allo St.	Lat = 29.88 Long = -90.09	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	New Orleans

* PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

Site Name AQIS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Meraux 22-087-0004	4101 Mistrot Drive	Lat = 29.94 Long = -89.92	Ozone	SPMS	U.V. Absorption	Continuous	General Background	Urban	Yes	New Orleans
			SO2	SPMS	U.V. Fluorescence	Continuous	General Background		Yes	
			H2S	SPMS	U.V. Fluorescence	Continuous	General Background		No	
Monroe 22-073-0004	5296 Southwest Rd.	Lat = 32.51 Long = -92.05	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	General Background	Neighbor- hood	Yes	Monroe
			Ozone	SLAMS	U.V. Absorption	Continuous	General Background		Yes	
New Orleans City Park 22-071-0012	Florida & Orleans Ave.	Lat = 29.99 Long = -90.10	PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	High Pop. Density	Neighbor- hood	No*	New Orleans
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
New Orleans Near-Road 22-071-0021	I610 at West End Blvd.	Lat = 29.99 Long = -90.12	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration	Micro- scale	Yes	New Orleans
			CO	SLAMS	Gas Filter Correlation	Continuous	High Concentration		Yes	
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Concentration		Yes	
New Roads 22-077-0001	Hwy 415	Lat = 30.68 Long = -91.37	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Baton Rouge

*PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Port Allen 22-121-0001	1005 Northwest Drive	Lat = 30.50 Long = -91.21	SO2	SLAMS	U. V. Fluorescence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every day	High Concentration		Yes	
			Ozone	SLAMS	U. V. Absorption	Continuous	High Concentration		Yes	
			NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration		Yes	
Pride 22-033-0013	11245 Port Hudson Rd.	Lat = 30.70 Long = -91.05	NOx	SLAMS	Chemilumin- escence	Continuous	High Concentration	Neighbor- hood	Yes	Baton Rouge
			Ozone	SLAMS	U. V. Absorption	Continuous	High Concentration		Yes	
Shreveport Airport 22-015-0008	1425 Airport Dr.	Lat = 32.53 Long = -93.75	Ozone	SLAMS	U. V. Absorption	Continuous	High Pop. Density	Neighbor- hood	Yes	Shreveport
			PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	General Background		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	High Pop. Density		Yes	
			SO2	SLAMS	U. V. Fluorescence	Continuous	High Pop. Density		Yes	

Table B. Site Specific Monitor Information (cont.)

Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Shreveport Calumet 22-017-0008	Midway St.	Lat = 32.47 Long = -93.79	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	High Pop. Density	Neighbor- hood	Yes	Shreveport
			PM2.5	SLAMS	Sequential FRM (Collocated) R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 12 th day	High Pop. Density		Yes	
St. Martinville 22-099-0001	1178 W.J. Bernard Road	Lat: 30.088872 Long: - 91.869595	Ozone	SLAMS	U. V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Lafayette
			Ozone	SLAMS	U. V. Absorption	Continuous	General Background	Neighbor- hood	Yes	Houma/ Thibodaux
Vinton 22-019-0009	2284 Paul Bellow Rd.	Lat = 30.2383 Long = -93.58	PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	General Background		No*	
			PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 3 rd day	Regional Transport	Neighbor- hood	Yes	Lake Charles
			Ozone	SPMS	U. V. Absorption	Continuous	General Background		Neighbor- hood	Yes
Westlake 22-019-0008	2646 John Stine Rd.	Lat = 30.26 Long = -93.28	SO2	SLAMS	U. V. Fluorescence	Continuous	High Pop. Density	Neighbor- hood	Yes	Lake Charles
			PM2.5	SPMS	Continuous TEOM Series 1400a Meth. Code: 715	Continuous	High Pop. Density		No*	
			NOx	SLAMS RA40	Chemilumin- escence	Continuous	High Pop. Density RA40		Neighbor- hood	Yes

* PM2.5 Continuous monitor used for AQI reporting purposes only.

Table B. Site Specific Monitor Information (cont.)

Special Purpose Monitors										
Site Name AQS ID #	Address/ Location	Latitude/ Longitude Coordinates	Pollutant Measured	Station Type	Sampling Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA Represented
Chalmette Vista 22-087-0007	24 E. Chalmette Circle	Lat = 29.94 Long = -89.98	PM2.5	SLAMS	Sequential FRM R&P Partisol Plus Model 2025 Meth. Code: 118	24 hrs every 6 th day	Source Oriented	Neighbor -hood	Yes	New Orleans
			PM2.5	SPMS	Continuous BAM 1020 Meth. Code: 170	Continuous	Source Oriented		No*	
			PM10	SLAMS	Continuous BAM 1020 Meth. Code: 122	Continuous	Source Oriented		Yes	
			SO ₂	SLAMS	U. V. Fluorescence	Continuous	Source Oriented		Yes	
			H2S	SPMS	U. V. Fluorescence	Continuous	Source Oriented		No	

* PM2.5 Continuous monitor used for AQI reporting purposes only.

Table C. PAMS Network Plan

Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Capitol 22-033-0009	2	Speciated VOC	Eight 3-hr canisters daily (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 LST); One 24-hour canister every 6 th day	May-September
		TNMOC	Hourly	January-December
		NO, NO ₂ , NO _x	Hourly	January-December
		NOy	Hourly	January-December
		CO (ppb level)	Hourly	January-December
		Ozone	Hourly	January-December
		SO ₂ (low level)	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December
		Relative Humidity	Hourly	January-December
		UV Radiation	Hourly	January-December
		Barometric Pres.	Hourly	January-December
		Solar Radiation	Hourly	January-December
		Precipitation	Hourly	January-December
		PM10	Hourly	January-December
PMCoarse	Hourly	January-December		
PM2.5	Hourly	January-December		
Mixing Height	Hourly	January-December		
Lead	Every 6 Days	January-December		
Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Dutchtown 22-005-0004	1/3	Speciated VOC	Four 3-hr cans every 3 days (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST) ; One 24-hour canister every 6 th day	May-September
		NO, NO ₂ , NO _x	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December

* Wind speed and direction reported to AQS as resultant wind speed and resultant wind direction

Site pictures can be found at <http://www.deq.louisiana.gov/portal/tabid/2466/Default.aspx> by clicking on the desired location on the site map.