2011 Louisiana Annual Network Assessment

Louisiana Department of Environmental Quality
Office of Environmental Compliance
Assessment Division

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The Louisiana Department of Environmental Quality's (LDEQ) Air Field Services section has operated State and Local Ambient Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Special Purpose Monitoring Stations (SPMS), and 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 judged against 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 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 which states are required to provide for 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 are follows:

1. Provide air pollution data to general public in a timely manner. Data can be presented to the public in a number of attractive 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 in air pollution abatement control measures impact 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 should be modified 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 2011-June 2012

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, STN, or SPMs. Table A summarizes number and type of monitors located in each MSA population. Table B lists specific information about analytes monitored at each site and which MSA is covered by this location. Finally, Table C lists information regarding the PAMS network.

The PAMS network plan exceeds the minimum monitoring requirements. Currently Capitol, Pride, Dutchtown, and Bayou Plaquemine are currently PAMS sites.

Additional proposed changes to the current Network are as follows:

- O_3 –an ozone monitor will be added in Alexandria, the existing Madisonville monitor is four miles from Fairview Riverside State Park, and 12 miles from Fontainebleau State Park and is proposed to fulfill the requirements for a monitor to protect scenic value, and the existing Hammond monitor is located in a micropolitan statistical area
- Pb – NCORE based site at Capitol will begin operation by December 27 2011. Using the Louisiana 2008 Emissions Inventory, the only source between 0.5 and 1.0 tpy is the Cleco Dolet Hills facility which has emissions of 0.66 tpy, for which Louisiana will be requesting a waiver from monitoring under separate cover.
- SO_2 –SO_2 will be added at the Shreveport Airport site by January 1, 2013, all other monitors required by the new SO_2 regulation are already operational.
- NO_x, Speciation, PM, VOC, and CO sites will remain unaltered in the 2011/2012 plan.

In the event of projected budget cuts for fiscal year 2011/2012, LDEQ and EPA will work closely to minimize the impact of the cuts and to ensure continued public health.

Table A.

MSA/CSA Population[1]	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
1,000,000-4,000,000	*New Orleans*			
	Ozone	2	5	5
	Nitrogen Oxide	0	1	1
	Sulfur Dioxide	1	3	3
	Carbon Monoxide	0	0	0
	PM2.5 FRM	2	3	3
	PM2.5 continuous	1	4	4
	PM10	2-4	2	2
	Lead	1	1	1
350,000-1,000,000	*Baton Rouge*			
	Ozone	4	8	8
	Nitrogen Oxide	3	8	8
	Trace Level Nitrogen Oxide	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	4	4
	PM10	1-2	1	1
	PM Coarse	1	0	1
	Lead	1	1	2
	Carbon Monoxide	0	0	0
	Trace Level Carbon Monoxide	1	1	1
	PAMS	2-4	4	4

[1]Metropolitan Statistical Area, April 8, 2009, United States Census Bureau
http://www.census.gov/popest/counties/CO-EST2009-01.html
[2]No monitor required based on most recent 3-year design value <85% of NAAQS

MSA/CSA Population[1]	MSA	Number of Monitors Currently Required	Number of Existing Monitors	Proposed Network
350,000-1,000,000	*Shreveport*			
	Ozone	2	2	2
	Sulfur Dioxide	1	0	1*
	PM2.5 FRM	0[2]	1	1
	PM2.5 continuous	1	1	1
	PM2.5 Speciation	0	1	1
	PM10	0-1	1	1
50,000-350,000	*Lafayette*			
	Ozone	1	1	1
	PM2.5 FRM	0[2]	1	1
	PM2.5 continuous	0[2]	1	1
	PM10	1-2	1	1
50,000-350,000	*Lake Charles*			
	Ozone	1	3	3
	Nitrogen Oxide	0	1	1
	Sulfur Dioxide	1	1	1
	PM2.5 FRM	0[2]	2	2
	PM2.5 continuous	0	1	1
50,000-350,000	*Alexandria*			
	PM2.5 FRM	0[2]	1	1
	PM2.5 continuous	0	1	1
	Ozone	1	0	1

[1]Metropolitan Statistical Area, April 8, 2009, United States Census Bureau
http://www.census.gov/popest/counties/CO-EST2009-01.html
[2]No monitor required based on most recent 3-year design value <85% of NAAQS

*Required by January 1, 2013

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

[1]Metropolitan Statistical Area, April 8, 2009, United States Census Bureau
http://www.census.gov/popest/counties/CO-EST2009-01.html
[2]No monitor required based on most recent 3-year design value <85% of NAAQS

Table B. *Special purpose monitors must run for 24 months before they are applicable to the NAAQS.

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	SPMS	Sequential FRM	24 hrs every 3rd day	General Background	Regional	Yes	Alexandria
			PM2.5	SPMS	Continuous BAM	Continuous	General Background		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
Baker LSP 22-033-0014	1400 West Irene Rd	Lat = 30.59 Long = -91.25	Lead	SLAMS	Gravimetric	Every 6th day	Source Oriented	Middle	Yes	Baton Rouge
Capitol 22-033-0009	1061-A Leesville Ave.	Lat = 30.46 Long = -91.18	PM2.5	SLAMS	Sequential FRM	24 hrs every day	High Pop. Density	Neighbor-hood	Yes	Baton Rouge
			PM2.5	SLAMS	Sequential FRM (Collocated)	24 hrs every 12th day	High Pop. Density		Yes	
			PM2.5	SPMS	Continuous TEOM	Continuous	High Pop. Density		No	
			PM10	SLAMS	Continuous BAM	Continuous	High Pop. Density		Yes	
			PM2.5	STN	Chemical Speciation	24 hrs every 3rd day	High Pop. Density		No	
			SO_2	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density		No	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
			CO	SLAMS	Nondispersive Infrared	Continuous	High Pop. Density		No	

*Not comparable because less than three years of data, or not EPA-approved method.

Table B. (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)			NOx	SLAMS	Chemilumin-escence	Continuous	High Pop. Density	Neighbor -hood	Yes	Baton Rouge
			NOy	PAMS	Chemilumin-esence	Continuous	High Pop. Density		No	
			VOC	PAMS	Canisters; Trigger Canisters	8 3-hr samples daily during ozone season and every 6th day otherwise, also 24 hrs every 6th day; 25 min when triggered	High Pop. Density		No	
			Lead	SLAMS	Gravimetric	Every 6th day	High Pop. Density		Yes	
			PM Coarse (Diff)	SLAMS	Continuous BAM	Continuous	High Pop. Density		Yes	
LSU 22-033-0003	East End Aster Lane	Lat = 30.42 Long = -91.18	NOx	SLAMS	Chemilumin-escence	Continuous	High Concentration	Middle	Yes	Baton Rouge
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration	Middle	Yes	
			VOC	SPMS	Trigger Canisters	25 min when triggered	High Concentration		No	

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Table B. (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
Bayou Plaquemine 22-047-0009	65180 Belleview Rd.	Lat = 30.22 Long = -91.32	Ozone	PAMS	U.V. Absorption	Continuous	High Concentration	Neighbor-hood	Yes	Baton Rouge
			NOx	PAMS	Chemilumin-escence	Continuous	High Pop. Density		Yes	
			PM2.5	SPMS	Sequential FRM	24 hrs every 3rd day	Population Oriented		Yes	
			NOy	PAMS	Chemilumin-escence	Continuous	High Pop. Density		Yes	
			VOC	PAMS	Canisters; Trigger Canisters	4 3-hr samples daily during ozone season and 8 3-hr samples every 6th day otherwise; also 24 hrs every 6th day; 25 min when triggered	Population Oriented		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
			NOx	SPMS	Chemilumin-escence	Continuous	Source Oriented	Neighbor-hood	Yes	
			VOC	SPMS	Trigger Canisters	25 min when triggered	Source Oriented	Neighbor-hood	No	

*Not comparable because less than three years of data, or not EPA-approved method.

Table B. (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	Neighbor-hood	Yes	St James
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	U.V. Absorption	Continuous	General Background	Neighbor-hood	Yes	Baton Rouge
			NOx	PAMS	Chemilumin-escence	Continuous	General Background		Yes	
			VOC	PAMS	Canisters; Trigger Canisters	4 3-hr cans every 3rd day ozone season and 8 3-hr cans 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	Neighbor-hood	Yes	Baton Rouge
			Ozone	SPMS	U.V. Absorption	Continuous	High Concentration General Background		Yes	

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Table B. (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
French Settlement (cont)			PM2.5	SPMS	Continuous TEOM	Continuous	General Background	Neighbor-hood	No	Baton Rouge
			VOC	SPMS	Canisters; Trigger Canisters	24 hrs every 6th day; 25 min when triggered	Population Oriented		No	
Garyville 22-095-0002	E. Azaela 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	SPMS	Sequential FRM	24 hrs every 3rd 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	SPMS	Sequential FRM	24 hrs every 3rd day	High Pop. Density	Neighbor-hood	Yes	New Orleans
			PM2.5	SPMS	Sequential FRM (Collocated)	24 hrs every 12th day	High Pop. Density		Yes	
Hahnville 22-089-0003	1 River Park Drive	Lat = 29.98 Long = -90.36	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor-hood	Yes	St Charles
Houma 22-109-0001	4047 West Park Ave. at Hwy 24	Lat = 29.68 Long = -90.78	PM2.5	SLAMS	Sequential FRM	24 hrs every 3rd day	High Pop. Density	Neighbor-hood	Yes	New Orleans
Kenner 22-051-1001	100 West Temple Pl.	Lat = 30.04 Long = -90.27	NOx	SLAMS	Chemilumin-escence	Continuous	High Pop. Density	Urban	Yes	New Orleans
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration		Yes	
			PM2.5	SLAMS	Sequential FRM	24 hrs everyday	High Pop. Density		Yes	
			PM2.5	SPMS	Continuous TEOM	Continuous	High Pop. Density		No	

Table B. (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	24 hrs every 3rd day	High Pop. Density	Neighbor-hood	Yes	Lafayette
			PM2.5	SPMS	Continuous BAM	Continuous	High Pop. Density		Yes	
			PM10	SLAMS	Continuous BAM	Continuous	High Pop. Density		Yes	
			PM10	SLAMS	Continuous BAM (Collocated)	Continuous	High Pop. Density		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		Yes	
LakeCharles McNeese University 22-019-0010	Common & E. McNeese	Lat = 30.18 Long = -93.21	PM2.5	SLAMS	Sequential FRM	24 hrs every 3rd day	High Pop. Density	Neighbor-hood	Yes	Lake Charles
LaPlace 22-095-0003	115 Garden Grove	Lat = 30.04 Long = -90.46678	Lead	SLAMS	Gravimetric	Every 6th day	Source Oriented	Middle	Yes	New Orleans
			Lead	SLAMS	Gravimetric (Collocated)	Every 12th day			No	
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	Continuous	Source Oriented		No*	
Marrero 22-051-2001	Patriot & Allo St.	Lat = 29.88 Long = -90.09	PM2.5	SLAMS	Sequential FRM	24 hrs every 6th day	High Pop. Density	Neighbor-hood	Yes	New Orleans
Meraux 22-087-0004	4101 Mistrot Drive	Lat = 29.94 Long = -89.92	Ozone	SPMS	U.V. Adsorption	Continuous	General Background	Urban	No	New Orleans

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Table B. (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
Meraux (cont.)			SO2	SPMS	U.V. Fluorescence	Continuous	General Background	Urban	No*	
			H2S	SPMS	U.V. Fluorescence	Continuous	General Background		No	
			VOC	SPMS	Trigger Canisters	25 min when triggered	General Background		No	
Monroe 22-073-0004	5296 Southwest Rd.	Lat = 32.51 Long = -92.05	PM2.5	SLAMS	Sequential FRM	24 hrs every 3rd day	General Background	Neighbor -hood	Yes	Monroe
			PM2.5	SLAMS	Continuous BAM	Continuous	General Background		No	
			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	Continuous	High Pop. Density	Neighbor -hood	No	New Orleans
			PM10	SPMS	Continuous BAM	Continuous	High Pop. Denisty		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density		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	Point Coupee
Port Allen 22-121-0001	3758 Hwy 1	Lat = 30.50 Long = -91.21	PM2.5	SLAMS	Sequential FRM	24 hrs every day	High Concentration	Neighbor -hood	Yes	Baton Rouge
			PM2.5	SPMS	Continuous BAM	Continuous	High Concentration		No	
			NOx	SLAMS	Chemilumin-escence	Continuous	High Concentration		Yes	
			Ozone	SLAMS	U.V. Absorption	Continuous	High Concentration		Yes	

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Table B. (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 (cont.)			SO2	SLAMS	U.V. Fluorescence	Continuous	High Concentration		Yes	
			VOC	SPMS	Trigger Canisters	25 min when triggered	Population Oriented		No	
Pride 22-033-0013	11245 Port Hudson Rd.	Lat = 30.70 Long = -91.05	NOx	PAMS	Chemilumin-escence	Continuous	High Concentration	Neighbor -hood	Yes	Baton Rouge
			Ozone	PAMS	U.V. Absorption	Continuous	High Concentration		Yes	
			PM2.5	SPMS	Continuous TEOM	Continuous	High Concentration		No	
			VOC	PAMS	Canister; Trigger Canisters	4 3-hr samples every 3rd day ozone season and 8 3-hr samples every 6th day otherwise, also 24 hrs every 6th day; 25 min when triggered	Population Oriented		No	
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	Continuous	General Background		No	
			PM2.5	SPMS	Chemical Speciation	24 hrs every 6th day	General Background		No	
			PM10	SLAMS	Continuous BAM	Continuous	High Pop. Density		Yes	

Table B. (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 Airport (cont)			SO2**	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density	Neighbor-hood	Yes	Shreveport
Shreveport Calumet 22-017-0008	Midway St.	Lat = 32.47 Long = -93.79	PM2.5	SLAMS	Sequential FRM	24 hrs every 3rd day	High Pop. Density	Neighbor-hood	Yes	Shreveport
			PM2.5	SLAMS	Sequential FRM (Collocated)	24 hrs every 12th day	High Pop. Density		Yes	
Thibodaux 22-057-0004	194 Thorough-bred Park	Lat = 29.76 Long = -90.77	Ozone	SLAMS	U.V. Absorption	Continuous	General Background	Neighbor-hood	Yes	New Orleans
			PM2.5	SPMS	Continuous TEOM	Continuous	General Background		No	
Vinton 22-019-0009	2284 Paul Bellow Rd.	Lat = 30.2383 Long = -93.58	PM2.5	SPMS	Sequential FRM	24 hrs every 3rd day	Regional Transport	Neighbor-hood	Yes	Lake Charles
			Ozone	SPMS	U.V. Absorption	Continuous	General Background		Yes	
Westlake 22-019-0008	2646 John Stine Rd.	Lat = 30.26 Long = -93.28	Ozone	SLAMS	U.V. Absorption	Continuous	High Pop. Density	Neighbor-hood	Yes	Lake Charles
			SO2	SLAMS	U.V. Fluorescence	Continuous	High Pop. Density		Yes	
			NOx	SLAMS	Chemilumin-escence	Continuous	High Pop. Density		Yes	
			PM2.5	SPMS	Continuous TEOM	Continuous	High Pop. Density		No	
			VOC	SPMS	Canisters; Trigger Canisters	24 hrs every 6th day; 25 min when triggered	Population Oriented		No	

*Not comparable because less than three years of data, or not EPA-approved method. **Required by January 1, 2013

Table B. (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	SPMS	Sequential FRM	24 hrs every 3rd day	Source Oriented	Neighbor-hood	No*	New Orleans
			PM2.5	SPMS	Continuous BAM	Continuous	Source Oriented		No	
			PM10	SPMS	Continuous BAM	Continuous	Source Oriented		No*	
			SO_2	SPMS	U. V. Fluorescence	Continuous	Source Oriented		No*	
			H2S	SPMS	U.V. Fluorescence	Continuous	Source Oriented		No	
			VOC	SPMS	Trigger Canisters	25 min when triggered	Source Oriented		No	
Lake Charles Lighthouse Lane SPECIAL3	Lighthouse Lane & Bayou D'Inde Pass	Lat = 30.22 Long = -93.31	VOC	SPMS	Trigger Canisters	25 min when triggered	Population Oriented	Neighbor-hood	No	Lake Charles
Southern University 22-033-2002	Isabel Herson St.	Lat = 30.53 Long = -91.19	VOC	SPMS	Trigger Canisters	25 min when triggered	Source Oriented	Neighbor-hood	No	Baton Rouge

*Not comparable because less than three years of data, or not EPA-approved method.

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)	June-August
		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
		Mixing Height	Hourly	January-December
		Lead	Every 6 Days	January-December
Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Bayou Plaquemine 22-047-0009	3/1	Speciated VOC	Four 3-hr canisters daily (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST)	June-August
		TNMOC	Hourly	January-December
		NO_y	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December
		Relative Humidity	Hourly	January-December
		Barometric Pres.	Hourly	January-December
		Solar Radiation	Hourly	January-December

Site Name	Site Type	Pollutant	Sampling Frequency	Sampling Period
Bayou Plaquemine (cont.)	3/1	NO, NO_2, NO_x	Hourly	January-December
Pride 22-033-0013	1/3	Speciated VOC	Four 3-hr cans every 3 days (i.e. 0300-0600, 0600-0900, 1500-1800, 1800-2100 LST)	June-August
		TNMOC	Hourly	January-December
		NO, NO_2, NO_x	Hourly	January-December
		Ozone	Hourly	January-December
		Wind Speed*	Hourly	January-December
		Wind Direction*	Hourly	January-December
		Temperature	Hourly	January-December
		Relative Humidity	Hourly	January-December
		Barometric Pres.	Hourly	January-December
		Solar Radiation	Hourly	January-December
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)	June-August
		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. The 2008 precision/accuracy report can be found at http://www.deq.louisiana.gov/portal/tabid/2420/Default.aspx.