

Illinois
Ambient Air Monitoring
Network Plan – 2014



Illinois Environmental Protection Agency
Bureau of Air
Air Monitoring Section

May, 2013

Illinois Ambient Air Monitoring Network Plan - 2014

Introduction

In 1970, Congress enacted the Clean Air Act (CAA) empowering the United States Environmental Protection Agency (USEPA) to develop and implement National Ambient Air Quality Standards (NAAQS) for pollutants shown to threaten human health and welfare. These standards were designed with a margin of safety to protect public health and are defined in 40 CFR Part 50.

Federal Regulation 40 CFR Part 58 Subpart B 58.10 requires the States to submit to USEPA an annual air monitoring network plan for the next calendar year. The plan is to provide a detailed description of the monitoring network for all of the criteria pollutants: carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), ozone (O₃), particulate matter (PM₁₀ and PM_{2.5}), and lead (Pb). The monitoring sites are categorized by the following types: NCore (national trend sites), SLAMS (state and local air monitoring sites), SPM (special purpose monitors), PM_{2.5} speciation sites (trend and State), and PAMS (photochemical assessment monitoring sites). Specific site information is to include location information (address and latitude/longitude), site type, objectives, spatial scale, sampling schedule, and equipment used. In addition, changes from the previous network plan are to be listed. The proposed annual network plan is to be made available for public inspection for 30 days prior to submission to USEPA.

Relevant supporting air quality data in past Illinois Annual Air Quality Reports are available at the following link <http://www.epa.state.il.us/air/air-quality-report/index.html>. These data reports contain detailed monitoring data summaries from the network, show comparisons to the applicable air quality standards, and illustrate pollutant trends over various time periods.

Network Design

Appendix D to Part 58 establishes the design criteria for the ambient air monitoring network. The network is designed to meet three general objectives: provide air pollution data to the public in a timely manner, support compliance with ambient air quality standards and emissions strategy development, and support air pollution research studies. Specific objectives for the monitoring sites are to determine the highest pollution concentrations in an area (peak), to measure typical concentrations in areas of high population density (population), to determine the impact of significant sources or source categories (source), to determine general background levels (background), and to determine the extent of regional pollutant transport among populated areas (transport). The Illinois air monitoring network meets or, in most cases, exceeds the applicable minimum network requirements defined in 40 CFR 58 Appendix D.

The 2014 annual monitoring plan has also incorporated the recommendations provided within the Regional Network Assessment prepared by the Lake Michigan Air Directors Consortium

(LADCO) and submitted to US EPA in July, 2010. The Regional Network Assessment was prepared in conjunction with all of the US EPA Region 5 states.

Illinois participates in a Regional PAMS network in the Chicago area that is part of the USEPA approved "Alternate Plan for the Regional Lake Michigan PAMS Network". This PAMS network encompasses monitoring requirements for both the Milwaukee and Chicago ozone nonattainment areas. Illinois sites utilized for the Regional PAMS network will include the Schiller Park and Northbrook locations. Per 40 CFR 58.10 (a)(1) the PAMS designation is assigned based upon an area being considered serious, severe, or extreme ozone nonattainment. Note, currently Illinois is not classified as an area having a serious, severe, or extreme ozone nonattainment area. Illinois' Regional PAMS sites will collect speciated VOC, carbonyls, NO_x, O₃, CO (Northbrook Location Only), and meteorological data.

Network Implementation

Appendix E to Part 58 establishes the specific requirements for monitor and probe siting to ensure that the ambient data represents the stated objectives and spatial scale. These requirements are pollutant and scale specific and involve horizontal-vertical placement, spacing from obstructions, spacing from trees, and spacing from roadways. The Illinois air monitoring network meets these siting requirements.

Monitoring Methods

Appendix C to Part 58 specifies that monitoring methods used for comparison to the National Ambient Air Quality Standards (NAAQS) must be Federal Reference or Equivalent Methods (FRM or FEM). All monitors listed in this network plan use either FRM or FEM with the following exceptions. The carbon monoxide and sulfur dioxide monitors at Northbrook are trace-level samplers which are not FEMs. Thus, these data will not be used for compliance purposes. With the exclusion of the Bondville location no continuous PM_{2.5} samplers used are FRM or FEM at this time. Illinois EPA seeks to exclude the data acquired by the Bondville PM_{2.5} continuous monitor as the Agency would like to evaluate the FEM and is currently unsure if data should be used for NAAQS comparison. Illinois would use the data for purposes of the Air Quality Index (AQI) and AIRNOW similar to the balance of the PM_{2.5} continuous samplers. These samplers are intended to provide real-time particulate data for AQI reporting and AIRNOW mapping purposes rather than compliance. In summary, Illinois EPA is requesting all PM_{2.5} continuous samplers identified in the PM_{2.5} Network Plan be set aside for comparison to the NAAQS as the units are either not FEM or in the case of Bondville, Illinois needs to evaluate the data before NAAQS comparisons are considered.

Quality Assurance

Appendix A to Part 58 establishes the minimum quality system requirements for the criteria pollutant data submitted to EPA. Currently, there are two primary Quality Assurance Organizations applicable to this network plan, the Illinois EPA (IEPA) and the Cook County Department of Environmental Control (CCDEC).

Network Changes for 2014

The proposed 2014 network plan provides select discontinuations from the plan approved by US EPA and operated in 2013. Additions to the proposed network is operation of a Near-road NO₂ monitoring station. The design of the monitoring network for 2014 has also been based upon the assumption that funding to support the monitoring program is likely to be reduced in fiscal year 2014 and that all efforts would be made to keep as much of the network intact as possible. Also, the assumption was made that complete funding would be provided in 2014 to support the completion and continued operation of the two NCore sites located in Northbrook and Bondville and the Near-road NO₂ monitoring station operation and maintenance.

Proposed Monitoring Network Changes for 2014

A pollutant by pollutant discussion of the basis for the changes to the network, the underlying rules and requirements, Illinois EPA's proposed actions in specific areas and a detailed listing of specific sites that have proposed changes is provided on the following pages.

Carbon Monoxide

One carbon monoxide is required to be operated and collocated with one required near-road NO₂ monitor in core based statistical areas (CBSAs) of 1,000,000 or more persons. Additionally, NCore sites are required to operate a carbon monoxide monitor, this is the case for the Northbrook NCore location. There is no additional federal/state monitoring requirements for carbon monoxide. Two sites were operated in 2013 with one to be added at the near-road NO₂ location in 2014.

Nitrogen Dioxide

One nitrogen dioxide monitor will be located in the Chicago-Naperville-Joliet, IL-IN-WI CBSA to measure area-wide nitrogen dioxides as required for CBSAs with population of 1,000,000 or more. One near-road NO₂ monitoring station will be located in the Chicago-Naperville-Joliet, IL-IN-WI CBSA as required in each CBSA with a population of 500,000 or more persons. Additionally, two nitrogen dioxide monitors will be located as required by Regional Administrator Required Monitoring which focuses on protection of susceptible and vulnerable populations. Region 5 EPA has agreed to placement of these monitors at the East St. Louis and

Chicago ComEd locations. Illinois will designate two PAMS related NO₂ monitors in the Chicago area as part of the USEPA approved "Lake Michigan Alternate PAMS Plan" these units will be located at Schiller Park and the Northbrook monitoring sites. Six sites were operated in 2013, seven will be operated in 2014 including the near-road NO₂ site.

Sulfur Dioxide

Three SO₂ monitors will be located in the Chicago-Naperville-Joliet, IL-IN-WI CBSA, two sulfur dioxide monitors will be located in the St. Louis, MO-IL CBSA, and one sulfur dioxide monitor will be located in the Peoria, IL CBSA, as is required based upon population weighted emission index (PWEI) in each CBSA (e.g. PWEI >= 1,000,000 requires three SO₂ monitors). Additionally Illinois will operate a sulfur dioxide monitor at its Northbrook NCore multi-pollutant sites as required. There are eight sites required under federal/state rules, three sites in the Metropolitan Chicago area, two in the Metropolitan St. Louis area and three areas where concentrations were found to exceed the hourly sulfur dioxide air quality standard. No sites are being proposed for discontinuation. A total of fourteen sites were operated in 2013 with fourteen to be operated in 2014 as well.

Particulate Matter (PM₁₀)

To assist in characterizing national and regional PM₁₀, PM₁₀ monitoring is required in areas where MSA population exceeds 1,000,000 with the quantity of monitors dependent upon historic concentration levels. Both the Chicago-Naperville-Joliet, IL-IN-WI and St. Louis, MO-IL MSAs require two PM-10 monitors each. Illinois elects to meet this minimum requirement by operating PM₁₀ monitors at the Lyons Township, Northbrook, and Granite City locations as identified in the 2014 network plan. The second required monitor in the St. Louis, MO-IL MSA will be operated by Missouri Department of Natural Resources. There are a minimum of four sites required under federal/state rules, one in each of the four original PM₁₀ nonattainment areas. A total of four sites were operated in 2013 with one to be discontinued in 2014, specifically the Chicago Washington monitor.

Particulate Matter (PM_{2.5})

There are five monitors required under federal/state monitoring rules and two required as part of the USEPA approved plan for NCore (National Trend Sites) monitoring bringing the state total number of required sites to seven. Thirty three sites were operated in 2013; all will be operated in 2014. Illinois EPA will operate PM_{2.5} continuous samplers as identified in the PM_{2.5} Network Plan, however, these units will be operated for purposes of AQI reporting and AirNow mapping and not be utilized for comparison to the NAAQS as the units are either not FEM or as in the case of Bondville; Illinois needs to evaluate the data before considering it for comparison to the NAAQS.

Ozone

There are sixteen sites required under federal/state monitoring rules. Illinois will operate one of the two required in the Davenport-Moline-Rock Island, IA-IL MSA in Rock Island. Additionally, Illinois EPA will operate two sites listed in the 2013 Network Plan as part of the "Lake Michigan Alternate PAMS Plan" as Alternate PAMS sites, Schiller Park and Northbrook. In the 2014 Network Plan sixteen sites are required per 40 CFR Part 58 Appendix D, see Table 1. In 2013 Illinois operated 34 sites. Illinois will continue to operate 34 ozone monitors in 2014, four of which are in non-MSA defined areas.

TABLE 1

MSA	Required Monitors	IEPA Operated
Chicago-Naperville-Michigan City, IL-IN-WI	4	16
St Louis, IL-MO	3	6
Davenport-Moline-Rock Island, IA-IL	2	1
Peoria, IL	2	2
Rockford, IL	1	1
Springfield, IL	1	1
Bloomington-Normal, IL	1	1
Decatur, IL	1	1
Champaign-Urbana, IL	1	1
	16	30

Lead

In CBSAs of 500,000 or more one lead population based monitor is required. Illinois operates a population based lead monitor at the Northbrook location. An additional population based lead monitor is required in the St. Louis, MO-IL MSA. Illinois is required to operate source oriented monitors near facilities emitting 0.5 tons/year of lead that also have maximum lead concentrations in ambient air in excess of 50 percent of the NAAQS. Thirteen lead sites were identified in the 2013 network plan one of which is a special purpose monitor. The 2014 network plan proposes six sites one of which is a special purpose monitor. Three of the proposed discontinuations meet EPA guidance for shutdown as defined in 40 CFR 58 Subpart B 58.14(c)(1), see Table 2. Illinois EPA will propose to discontinue four other lead monitors as identified in Table 3. These four monitors each have three years clean data and are among the lowest design values recorded in Illinois EPA's lead network.

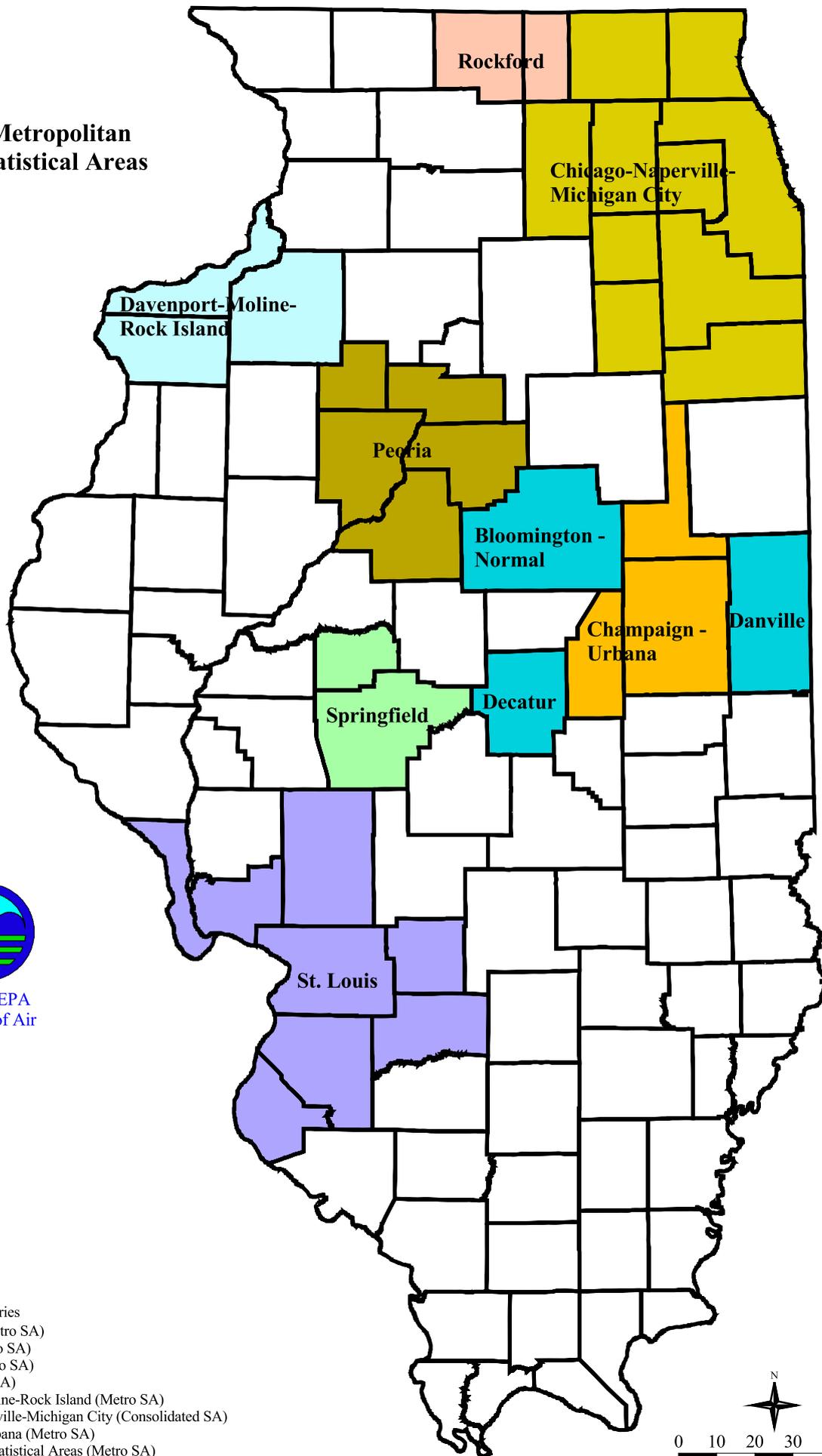
Table 2

Site	AQS Code	Operator	Pb 3-mo Rolling Averages					Design Values
			2008	2009	2010	2011	2012	2010-2012
Chicago Washington	17-031-0022	CCDEC	0.05	0.05	0.05	0.05	0.04	0.05
Schiller Park	17-031-3103	IEPA	0.01	0.01	0.01	0.01	0.04	0.04
Maywood	17-031-6003	CCDEC	0.03	0.03	0.04	0.03	0.04	0.04

Table 3

Site	AQS Code	Operator	Pb 3-mo Rolling Averages					Design Values
			2008	2009	2010	2011	2012	2010-2012
Rockford	17-201-0110	IEPA	-	-	0.06	0.04	0.03	0.06
Sterling	17-195-0110	IEPA	-	-	0.02	0.03	0.03	0.03
Bartonville	17-143-0110	IEPA	-	-	0.02	0.01	0.01	0.02
Mapleton	17-143-0210	IEPA	-	-	0.01	0.02	0.01	0.02

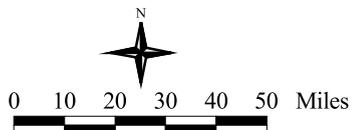
Metropolitan Statistical Areas



Illinois EPA
Bureau of Air

Legend

- County Boundaries
- Springfield (Metro SA)
- St. Louis (Metro SA)
- Rockford (Metro SA)
- Peoria (Metro SA)
- Davenport-Moline-Rock Island (Metro SA)
- Chicago-Naperville-Michigan City (Consolidated SA)
- Champaign-Urbana (Metro SA)
- Metropolitan Statistical Areas (Metro SA)



**ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
CARBON MONOXIDE**

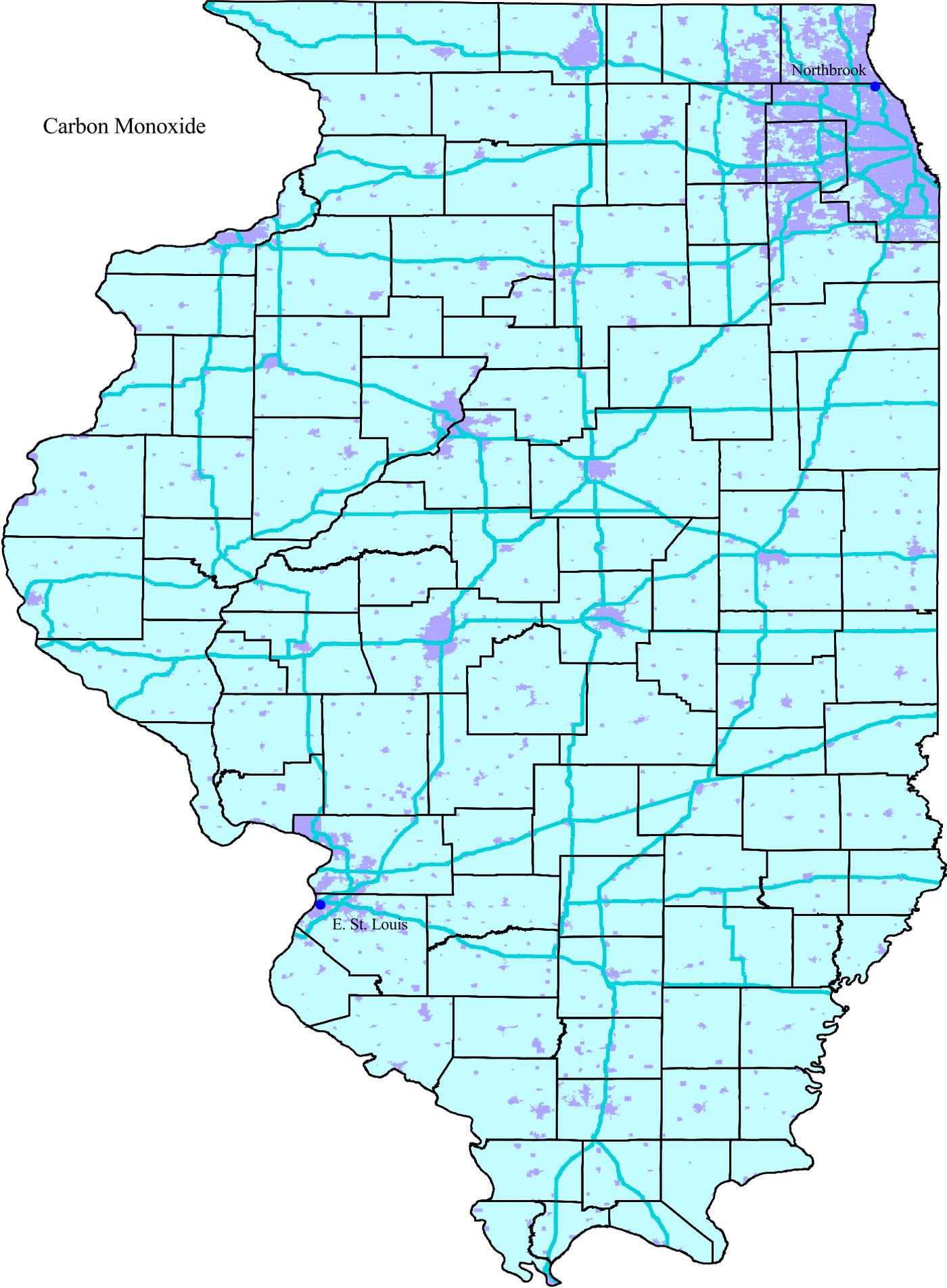
AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter	
						Latitude	Longitude		Primary	Secondary				Code 42101	
														Analysis Method	Sampling Schedule
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	NCORE	TEI	Hourly
17-163-0010	St. Clair	East St. Louis	13th & Tudor	RAPS Trailer	IEPA	+38.61203448	-90.16047663	St Louis, IL-MO	Highest Conc.	N/A	Neighborhood	N/A	SLAMS	TE	Hourly

Analysis Method - TE (TECO 48), TEI(TECO 48I-TLE)
 Sampling Schedule - Hourly (1 hour samples)

CCDEC - Cook County Department of Environmental Control
 IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change

Carbon Monoxide



Northbrook

E. St. Louis

**ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
NITROGEN DIOXIDE**

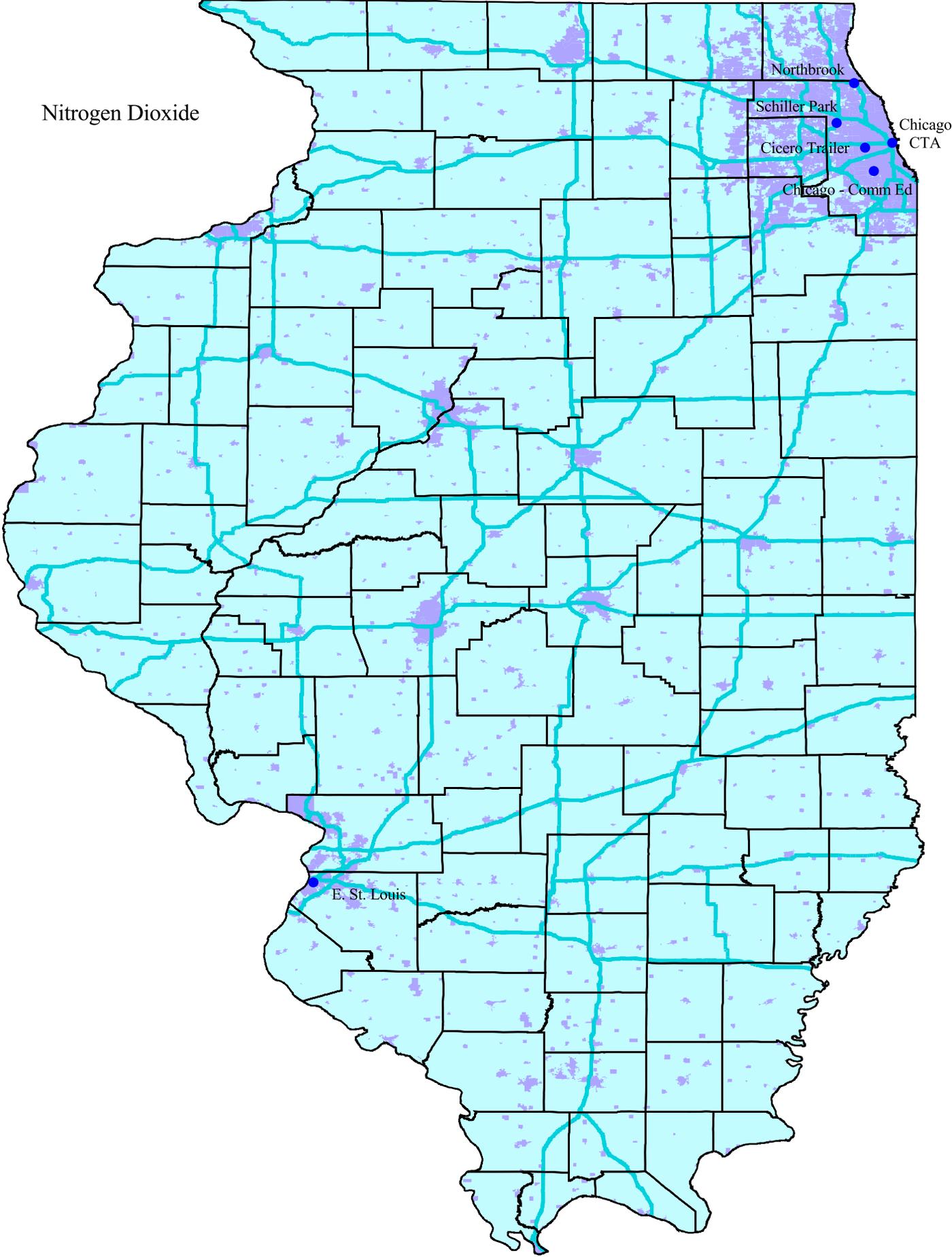
AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter NO2	
						Latitude	Longitude		Primary	Secondary				Code 42602	
														Analysis Method	Sampling Schedule
17-031-0063	Cook	Chicago	321 S. Franklin	CTA Building	IEPA	+41.877628	-87.635027	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Source	Middle	N/A	SLAMS	TEL	Hourly
17-031-0076	Cook	Chicago	7801 Lawndale	Com Ed Maintenance Bldg.	CCDEC	+41.75139998	-87.71348815	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	TE	Hourly
17-031-3103	Cook	Schiller Park	4743 Mannheim Rd.	IEPA Trailer	IEPA	+41.96519348	-87.87626473	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Source	Middle	N/A	SLAMS	TEL	Hourly
17-031-4002	Cook	Cicero	1820 S. 51st Ave.	Cook County Trailer	CCDEC	+41.85524313	-87.7524697	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	TE	Hourly
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	NCORE	TEL	Hourly
17-163-0010	St. Clair	East St. Louis	13th & Tudor	RAPS Trailer	IEPA	+38.61203448	-90.16047663	St Louis, IL-MO	Population	N/A	Neighborhood	N/A	SLAMS	TEL	Hourly

Analysis Method - TE (TECO 42), TEL (T-200)
Sampling Schedule - Hourly (1 hour samples)

CCDEC - Cook County Department of Environmental Control
IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change

Nitrogen Dioxide



Northbrook

Schiller Park

Cicero Trailer

Chicago - Comm Ed

Chicago CTA

E. St. Louis

ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
SULFUR DIOXIDE

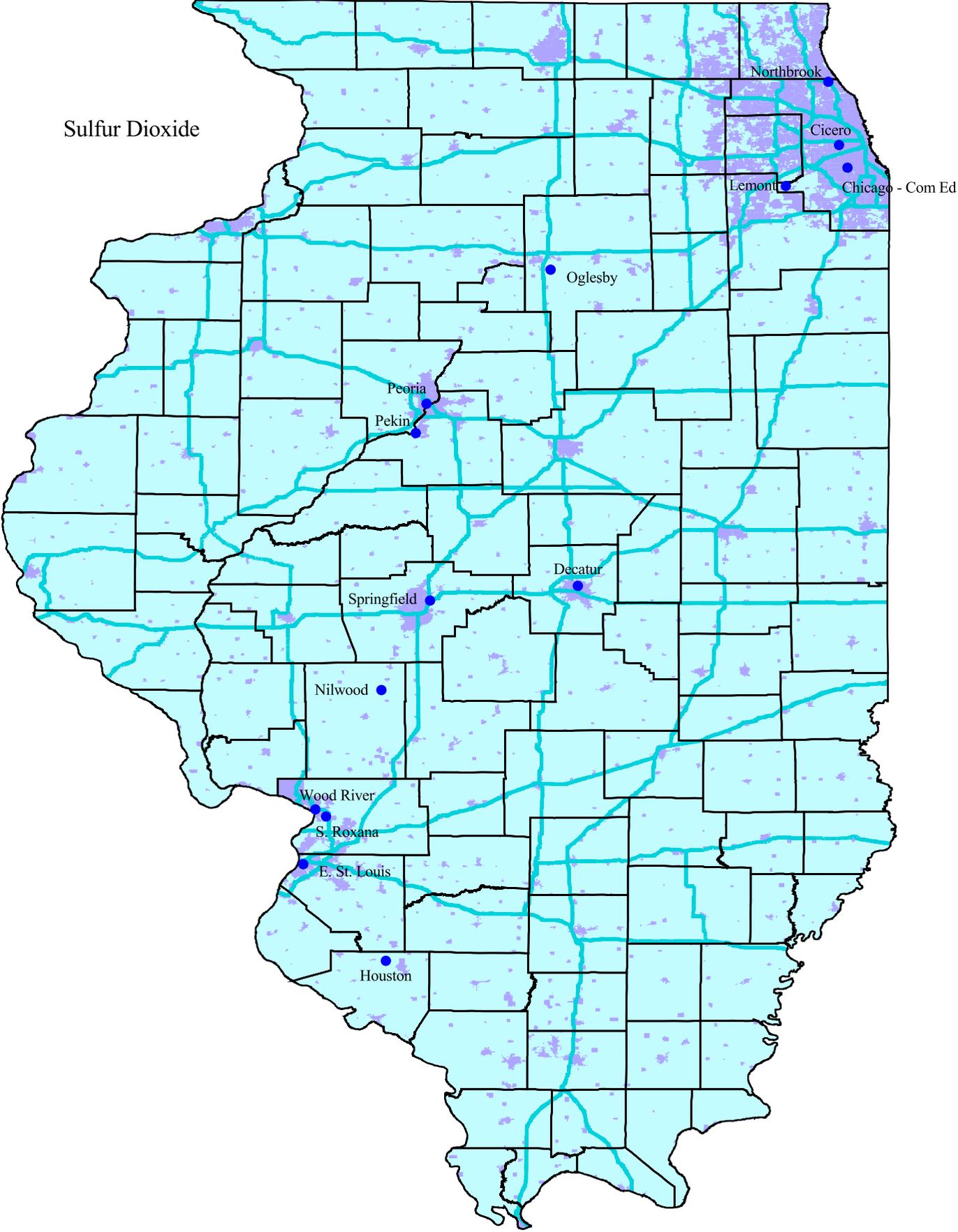
AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter	
						Latitude	Longitude		Primary	Secondary				SO2 Code 42401	
														Analysis & Sampling	
Analysis Method	Sampling Schedule														
17-031-0076	Cook	Chicago	7801 Lawndale	Com Ed Maintenance Bldg.	CCDEC	+41.75139998	-87.71348815	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	API	Hourly
17-031-1601	Cook	Lemont	729 Houston	Cook County Trailer	CCDEC	+41.66812034	-87.99056969	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	API	Hourly
17-031-4002	Cook	Cicero	1820 S. 51st Ave.	Cook County Trailer	CCDEC	+41.85524313	-87.7524697	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	API	Hourly
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	NCORE	T100U	Hourly
17-099-0007	La Salle	Oglesby	308 Portland Ave.	IEPA Trailer	IEPA	+41.29301454	-89.04942498	Ottawa-Streator, IL	Highest Conc.	Source	Neighborhood	N/A	SLAMS	DA	Hourly
17-115-0013	Macon	Decatur	2200 N. 22nd St.	IEPA Trailer	IEPA	+39.86683389	-88.92559445	Decatur, IL	Population	N/A	Neighborhood	N/A	SLAMS	T100	Hourly
17-117-0002	Macoupin	Nilwood	Heaton & Dubois	IEPA Trailer	IEPA	+39.39607533	-89.80973892	St Louis, IL-MO	Background	Population	Regional	N/A	SLAMS	T100	Hourly
17-119-1010	Madison	South Roxana	Michigan St.	S. Roxana Grade School	IEPA	+38.82830334	-90.05843262	St Louis, IL-MO	Highest Conc.	Source	Neighborhood	N/A	SLAMS	T100	Hourly
17-119-3007	Madison	Wood River	54 N. Walcott	Water Treatment Plant	IEPA	+38.86066947	-90.10585111	St Louis, IL-MO	Population	N/A	Neighborhood	N/A	SLAMS	T100	Hourly
17-143-0024	Peoria	Peoria	Hurlburt & MacArthur	Fire Station #8	IEPA	+40.68742038	-89.60694277	Peoria, IL	Population	N/A	Neighborhood	N/A	SLAMS	T100	Hourly
17-157-0001	Randolph	Houston	Hickory Grove & Fallview	IEPA Trailer	IEPA	+38.17627761	-89.78845862	N/A	Background	N/A	Neighborhood	N/A	SLAMS	T100	Hourly
17-163-0010	St. Clair	East St. Louis	13th & Tudor	RAPS Trailer	IEPA	+38.61203448	-90.16047663	St Louis, IL-MO	Population	N/A	Neighborhood	N/A	SLAMS	T100	Hourly
17-167-0006	Sangamon	Springfield	3300 Mechanicsburg Rd.	Sewage Treatment Plant	IEPA	+39.80061377	-89.59122532	Springfield, IL	Highest Conc.	Source	Neighborhood	N/A	SLAMS	T100	Hourly
17-179-0004	Tazewell	Pekin	272 Derby	Pekin Fire Station #3	IEPA	+40.55646017	-89.65402807	Peoria, IL	Highest Conc.	Source	Neighborhood	N/A	SLAMS	T100	Hourly

Analysis Method - API (API 100), DA (DASIBI 4108), T100 (Teledyne), T100U (Teledyne Trace)
 Sampling Schedule - Hourly (1 hour samples)

CCDEC - Cook County Department of Environmental Control
 IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change

Sulfur Dioxide



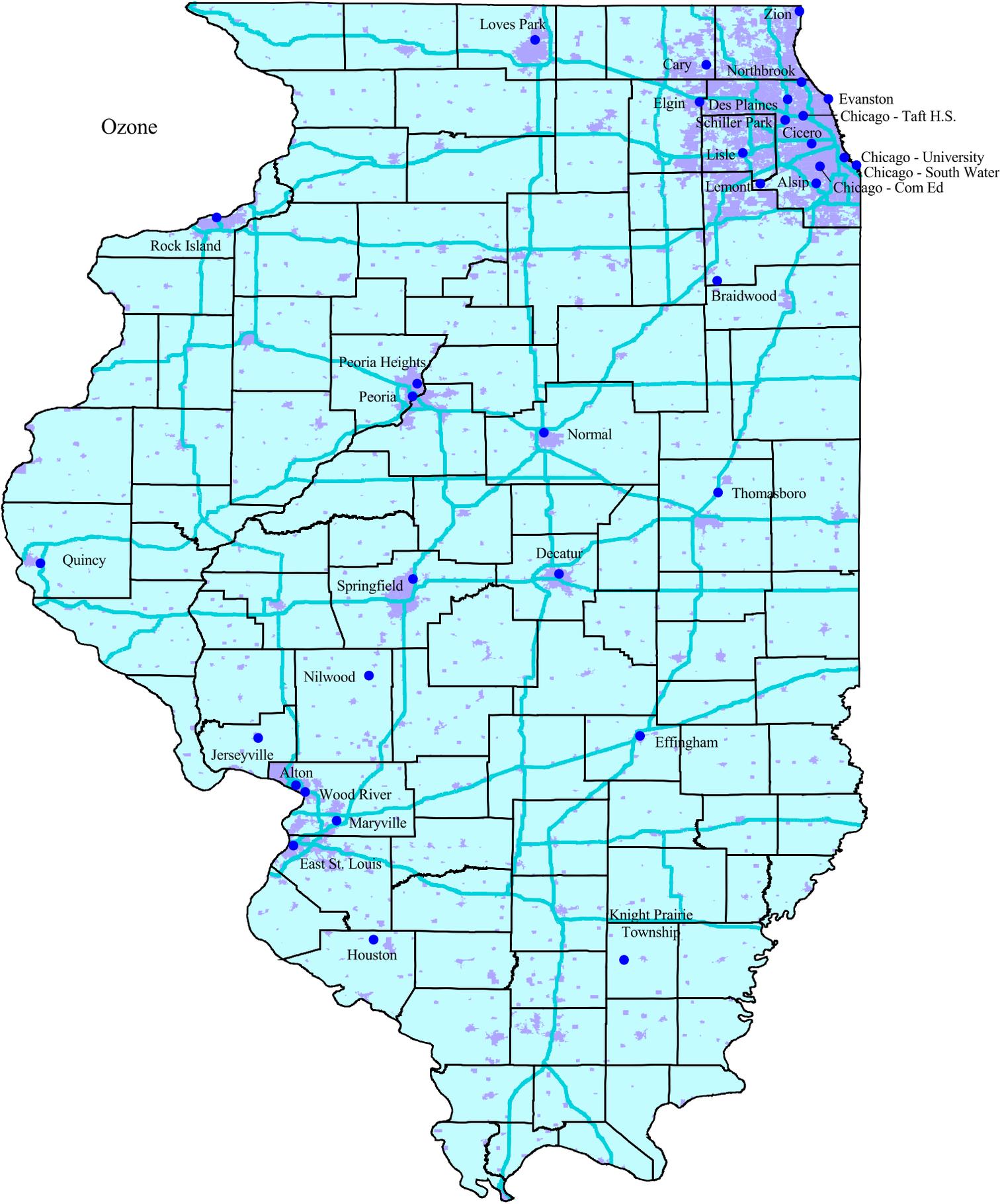
ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
OZONE

AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter O3 Code 44201	
						Latitude	Longitude		Primary	Secondary				Analysis & Sampling	
														Analysis Method	Sampling Schedule
17-001-0007	Adams	Quincy	1301 S. 48th St	John Wood Community College	IEPA	+39.91540937	-91.33586832	Quincy, IL-MO	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-019-0007	Champaign	Thomasboro	North Thomas St.	Resident	IEPA	+40.244913	-88.188519	Champaign-Urbana, IL	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-031-0001	Cook	Alsip	4500 W. 123rd St.	Village Garage	CCDEC	+41.6709919	-87.7324569	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	DA8	Hourly
17-031-0032	Cook	Chicago	3300 E. Cheltenham Pl.	South Water Filtration Plant	CCDEC	+41.75583241	-87.54534967	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Population	Neighborhood	N/A	SLAMS	DA8	Hourly
17-031-0064	Cook	Chicago	5720 S. Ellis Ave.	University of Chicago	CCDEC	+41.79078688	-87.60164649	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	DA8	Hourly
17-031-0076	Cook	Chicago	7801 Lawndale	Com Ed Maintenance Bldg.	CCDEC	+41.75139998	-87.71348815	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	API	Hourly
17-031-1003	Cook	Chicago	6545 W. Hurlbut St.	Taft High School	CCDEC	+41.98433233	-87.7920017	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	API	Hourly
17-031-1601	Cook	Lemont	729 Houston	Cook County Trailer	CCDEC	+41.66812034	-87.99056969	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	API	Hourly
17-031-4002	Cook	Cicero	1820 S. 51st Ave.	Cook County Trailer	CCDEC	+41.85524313	-87.7524697	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	API	Hourly
17-031-4007	Cook	Des Plaines	9511 W. Harrison St.	Regional Office Bldg.	IEPA	+42.06028469	-87.86322543	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	NA	Urban	N/A	PAMS/NCORE	T400	Hourly
17-031-7002	Cook	Evanston	531 E. Lincoln	Evanston Water Plant	IEPA	+42.06185724	-87.67416716	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	SLAMS	T400	Hourly
17-043-6001	DuPage	Lisle	Route 53	Morton Arboretum	IEPA	+41.81304939	-88.0728269	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-049-1001	Effingham	Effingham	Route 45 South	Central Junior High School	IEPA	+39.06715932	-88.54893401	Effingham, IL	Population	N/A	Regional	N/A	SLAMS	T400	Hourly
17-065-0002	Hamilton	Knight Prairie Twp	Route 14	Ten Mile Creek DNR Office	IEPA	+38.08215516	-88.6249434	Mt Vernon, IL	Background	N/A	Regional	N/A	SLAMS	T400	Hourly
17-083-1001	Jersey	Jerseyville	Liberty St. & County Rd.	Illini Junior High School	IEPA	+39.11053947	-90.32407986	St Louis, IL-MO	Transport	Population	Regional	N/A	SLAMS	T400	Hourly
17-089-0005	Kane	Elgin	665 Dundee Rd.	Larsen Junior High School	IEPA	+42.04914776	-88.27302929	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-097-1007	Lake	Zion	Illinois Beach State Park	Camp Logan Trailer	IEPA	+42.4675733	-87.81004705	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Transport	Urban	N/A	PAMS	T400	Hourly
17-111-0001	McHenry	Cary	First St. & Three Oaks Rd.	Cary Grove High School	IEPA	+42.22144166	-88.24220734	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	NAMS	T400	Hourly
17-113-2003	McLean	Normal	Main & Gregory	ISU Physical Plant	IEPA	+40.51873537	-88.99689571	Bloomington-Normal, IL	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-115-0013	Macon	Decatur	2200 N. 22nd St.	IEPA Trailer	IEPA	+39.866933	-88.925452	Decatur, IL	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-117-0002	Macoupin	Nilwood	Heaton & Dubois	IEPA Trailer	IEPA	+39.39607533	-89.80973892	St Louis, IL-MO	Transport	Population	Regional	N/A	SLAMS	T400	Hourly
17-119-0008	Madison	Alton	409 Main St	Clara Barton School	IEPA	+38.89018605	-90.14803114	St Louis, IL-MO	Highest Conc.	Population	Urban	N/A	SLAMS	T400	Hourly
17-119-1009	Madison	Maryville	200 W. Division	Southwest Cable TV	IEPA	+38.72657262	-89.95996251	St Louis, IL-MO	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-119-3007	Madison	Wood River	54 N. Walcott	Water Treatment Plant	IEPA	+38.86066947	-90.10585111	St Louis, IL-MO	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-143-0024	Peoria	Peoria	MacArthur & Hurlburt	Fire Station #8	IEPA	+40.68742038	-89.60694277	Peoria, IL	Population	N/A	Neighborhood	N/A	SLAMS	T400	Hourly
17-143-1001	Peoria	Peoria Heights	508 E. Glen Ave.	Peoria Heights High School	IEPA	+40.74550393	-89.58586902	Peoria, IL	Highest Conc.	Population	Urban	N/A	SLAMS	T400	Hourly
17-157-0001	Randolph	Houston	Hickory Grove & Fallview	IEPA Trailer	IEPA	+38.17627761	-89.78845862	N/A	Background	N/A	Regional	N/A	SLAMS	T400	Hourly
17-161-3002	Rock Island	Rock Island	32 Rodman Ave.	Rock Island Arsenal	IEPA	+41.51472697	-90.51735026	Davenport-Moline-Rock Island, IA-IL	Population	N/A	Neighborhood	N/A	SLAMS	T400	Hourly
17-163-0010	St. Clair	East St. Louis	13th & Tudor	RAPS Trailer	IEPA	+38.61203448	-90.16047663	St Louis, IL-MO	Population	N/A	Neighborhood	N/A	SLAMS	T400	Hourly
17-167-0014	Sangamon	Springfield	Illinois Building	State Fairgrounds	IEPA	+39.831522	-89.640926	Springfield, IL	Population	N/A	Urban	N/A	SLAMS	T400	Hourly
17-197-1011	Will	Braidwood	36400 S. Essex Rd.	Com Ed Training Ctr.	IEPA	+41.22153707	-88.19096718	Chicago-Naperville-Michigan City, IL-IN-WI	Background	N/A	Regional	N/A	PAMS	T400	Hourly
17-201-2001	Winnebago	Loves Park	1405 Maple Ave.	Maple Elementary School	IEPA	+42.33498222	-89.0377748	Rockford, IL	Highest Conc.	Population	Urban	N/A	SLAMS	T400	Hourly
17-031-3103	Cook	Schiller Park	4743 Mannheim Rd.	IEPA Trailer	IEPA	+41.96519348	-87.87626473	Chicago-Naperville-Michigan City, IL-IN-WI	Population	Source	Neighborhood	N/A	PAMS	T400	Hourly

Analysis Method - DA8 (DASIBI 1008), TE (TECO 49), API (API 400), T400 (TELEDYNE)
Sampling Schedule - Hourly (1 hour samples)

CCDEC - Cook County Department of Environmental Control
IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change



**ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
PARTICULATE MATTER - PM10**

AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter PM10 Code 81102		
						Latitude	Longitude		Primary	Secondary				Analysis & Sampling		
														Analysis Method	Sampling Schedule	Collocate
17-031-0022	Cook	Chicago	3535 E. 114th St	Washington High School	CCDEC	+41.68716544	-87.53931548	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Source	Neighborhood	Discontinue	SLAMS	BETA	Hourly	
17-031-1016	Cook	Lyons Township	50th St. & Glencoe	Village Hall	IEPA	+41.80116701	-87.8319447	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Source	Middle	N/A	SLAMS	Hi-vol	1/6	Y
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	NCORE	Grimm	Hourly	
17-119-1007	Madison	Granite City	23rd. & Madison	Fire Station # 1	IEPA	+38.70453426	-90.13967484	St Louis, IL-MO	Highest Conc.	Source	Neighborhood	N/A	SLAMS	Hi-vol	1/6	

Analysis Method - Hi-vol (High volume sampler), BETA (Anderson Beta Attenuation Monitor)

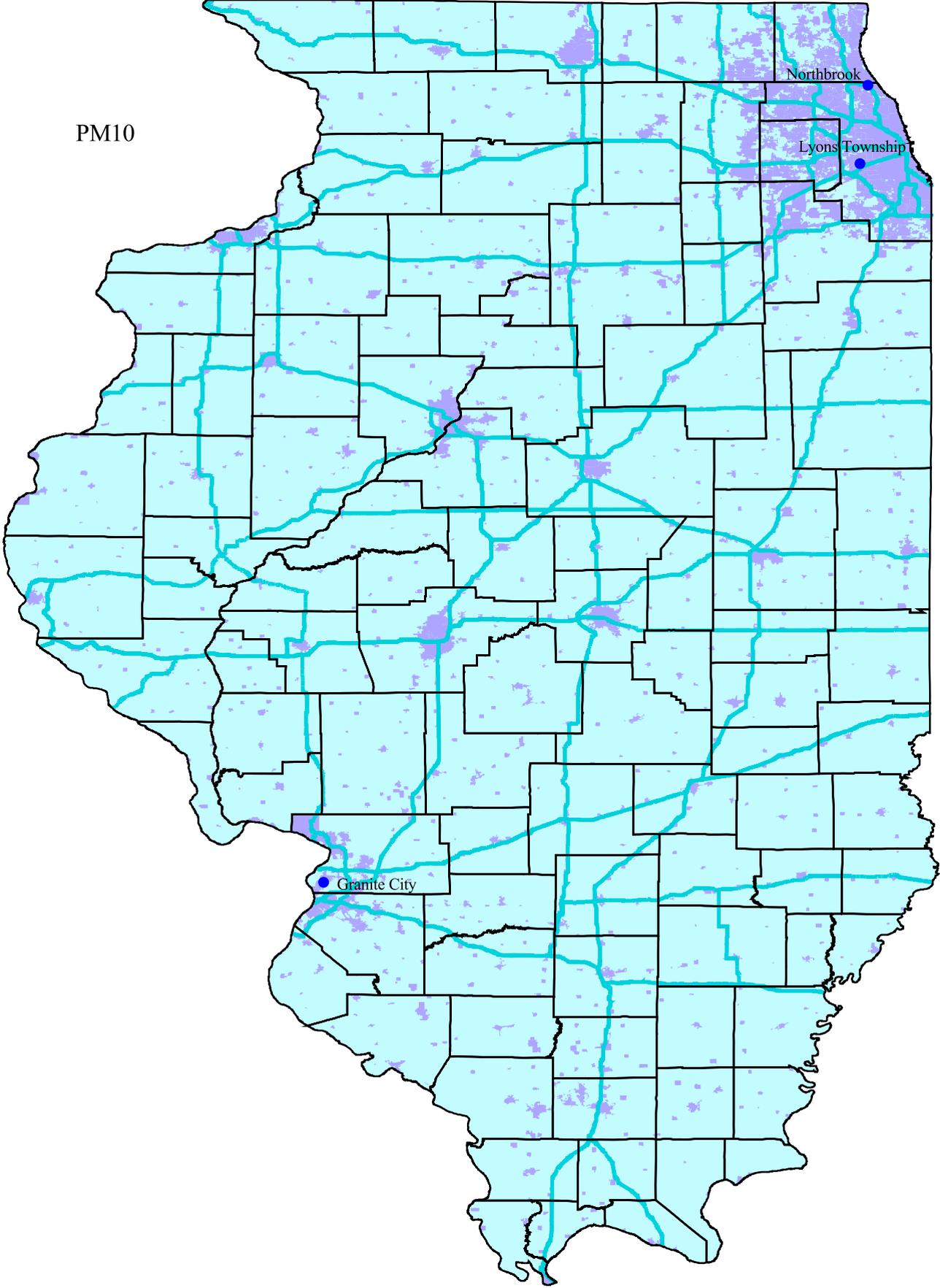
Sampling Schedule - Hourly (1 hour samples), 1/6 (1 - 24 hour sample every 6 days)

CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change

PM10



Northbrook

Lyons Township

Granite City

**ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014
PARTICULATE MATTER - PM2.5**

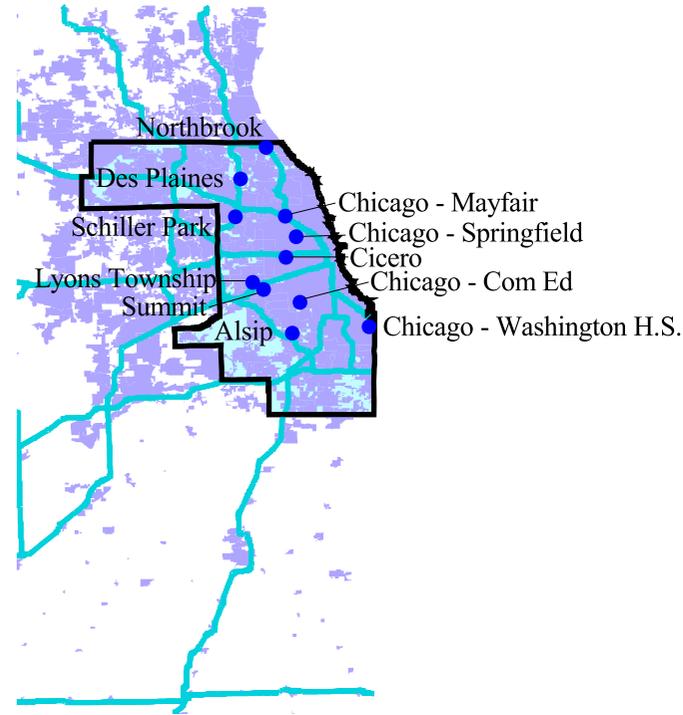
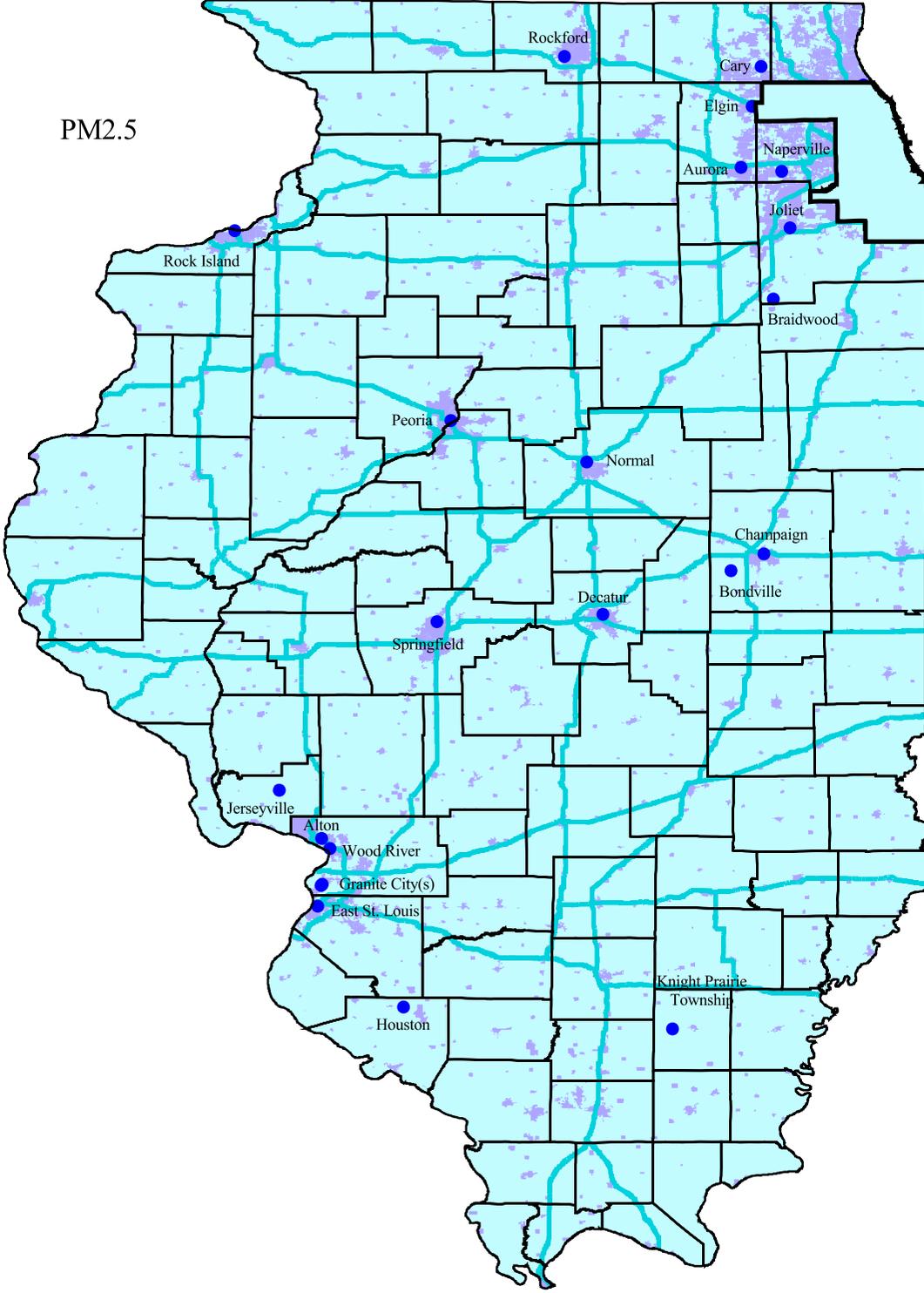
AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Standard	Proposal to Move or Discontinue	Monitoring Type	Parameter				
						Latitude	Longitude		Primary	Secondary					PM2.5				
															Code 88101, 88501 (BAM)				
Analysis & Sampling																			
Analysis Method		Sampling Schedule	Collocate	Speciate	Frequency														
17-019-0006	Champaign	Champaign	904 N. Walnut	Ameren Substation	IEPA	+40.123883	-88.240550	Champaign-Urbana, IL	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3			
17-019-1001	Champaign	Bondville	Twp. Rd. 500 E.	SWS Climate Station	IEPA	+40.05224171	-88.37254916	Champaign-Urbana, IL	Background	Population	Regional	Annual/24	N/A	NCORE	AS, BAM	1/3, Hourly			
17-031-0001	Cook	Alsip	4500 W. 123rd St.	Village Garage	CCDEC	+41.6709919	-87.7324569	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	NA	N/A	SLAMS, SPMS	AS, BAM	1/6, Hourly			
17-031-0022	Cook	Chicago	3535 E. 114th St.	Washington High School	CCDEC	+41.68716544	-87.53931548	Chicago-Naperville-Michigan City, IL-IN-WI	Population	Source	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3	Y		
17-031-0052	Cook	Chicago	4850 Wilson Ave.	Mayfair Pump Station	CCDEC	+41.96548483	-87.74992806	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Population	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3			
17-031-0057	Cook	Chicago	1745 N. Springfield Ave.	Springfield Pump Station	CCDEC	+41.912526	-87.722667	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS, SPMS	AS, BAM	1/6, Hourly		Y	1/6
17-031-0076	Cook	Chicago	7801 Lawndale	Com Ed Maintenance Bldg.	CCDEC	+41.75139998	-87.71348815	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS, SPMS	AS, BAM	1/6, Hourly		Y	1/3
17-031-1016	Cook	Lyons Township	50th St. & Glencoe	Village Hall	IEPA	+41.80116701	-87.8319447	Chicago-Naperville-Michigan City, IL-IN-WI	Source	Population	Middle	24 Only	N/A	SLAMS	AS	1/3	Y		
17-031-3103	Cook	Schiller Park	4743 Mannheim Rd.	IEPA Trailer	IEPA	+41.96519348	-87.87626473	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	Population	Middle	24 Only	N/A	SLAMS	A1(2)	1/3	Y		
17-031-3301	Cook	Summit	60th St. & 74th Ave.	Graves Elementary School	CCDEC	+41.78276601	-87.80537679	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3			
17-031-4007	Cook	Des Plaines	9511 W. Harrison St.	Regional Office Bldg.	IEPA	+42.06028469	-87.86322543	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	SLAMS	A1(2)	1/3			
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	NCORE, SPMS	A1(2),BAM	1/3, Hourly		Y	1/3
17-031-6005	Cook	Cicero	13th St. & 50th Ave.	Liberty School	CCDEC	+41.86442642	-87.74890238	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS, SPMS	AS, BAM	1/6, Hourly			
17-043-4002	DuPage	Naperville	400 S. Eagle St.	City Hall	IEPA	+41.77107094	-88.15253365	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	SLAMS	A1(2)	1/3		Y	1/6
17-065-0002	Hamilton	Knight Prairie Twp	Route 14	Ten Mile Creek DNR Office	IEPA	+38.08215516	-88.6249434	Mt Vernon, IL	Background	Population	Regional	Annual/24	N/A	SLAMS	AS	1/3			
17-083-1001	Jersey	Jerseyville	Liberty St. & County Rd.	Illini Junior High School	IEPA	+39.11053947	-90.32407986	St Louis, IL-MO	Population	Transport	Urban	Annual/24	N/A	SLAMS	THRM(2)	1/3			
17-089-0003	Kane	Elgin	258 Lovell St.	McKinley School	IEPA	+42.050403	-88.28001471	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	SLAMS	A1(2)	1/3			
17-089-0007	Kane	Aurora	1240 N. Highland	Health Department	IEPA	+41.78471651	-88.32937361	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	SLAMS, SPMS	A1, BAM	1/6, Hourly			
17-111-0001	McHenry	Cary	First St. & Three Oaks Rd.	Cary Grove High School	IEPA	+42.22144166	-88.24220734	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	Annual/24	N/A	SLAMS, SPMS	A1, BAM	1/6, Hourly			
17-113-2003	McLean	Normal	Main & Gregory	ISU Physical Plant	IEPA	+40.51873537	-88.99689571	Bloomington-Normal, IL	Population	N/A	Urban	Annual/24	N/A	SLAMS	AS	1/3			
17-115-0013	Macon	Decatur	2200 N. 22nd St.	IEPA Trailer	IEPA	+39.86683389	-88.92559445	Decatur, IL	Population	Source	Neighborhood	Annual/24	N/A	SLAMS, SPMS	RP1, BAM	1/6, Hourly			
17-119-0024	Madison	Granite City	2100 Madison	Gateway Medical Center	IEPA	+38.7006315	-90.14476267	St Louis, IL-MO	Population	Source	Middle	24 Only	N/A	SLAMS	AS	1/3	Y	Y	1/6
17-119-1007	Madison	Granite City	23rd & Madison	Fire Station #1	IEPA	+38.70453426	-90.13967484	St Louis, IL-MO	Highest Conc.	Population	Neighborhood	Annual/24	N/A	SLAMS, SPMS	THRM, BAM	1/6, Hourly	Y		
17-119-2009	Madison	Alton	1700 Annex. St.	SIU Dental Clinic	IEPA	+38.90308534	-90.14316803	St Louis, IL-MO	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3			
17-119-3007	Madison	Wood River	54 N. Walcott	Water Treatment Plant	IEPA	+38.86066947	-90.10585111	St Louis, IL-MO	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS	THRM(2)	1/3			
17-143-0037	Peoria	Peoria	613 N.E. Jefferson	City Office Bldg.	IEPA	+40.697007	-89.58473722	Peoria, IL	Population	N/A	Urban	Annual/24	N/A	SLAMS, SPMS	THRM, BAM	1/6, Hourly			
17-157-0001	Randolph	Houston	Hickory Grove & Fallview	IEPA Trailer	IEPA	+38.17627761	-89.78845862	N/A	Background	Population	Regional	Annual/24	N/A	SLAMS	AS	1/3			
17-161-3002	Rock Island	Rock Island	32 Rodman Ave.	Rock Island Arsenal	IEPA	+41.51472697	-90.51735026	Davenport-Moline-Rock Island, IA-IL	Population	N/A	Urban	Annual/24	N/A	SLAMS	AS	1/3			
17-163-0010	St. Clair	East St. Louis	13th & Tudor	RAPS Trailer	IEPA	+38.61203448	-90.16047663	St Louis, IL-MO	Population	Source	Neighborhood	Annual/24	N/A	SLAMS, SPMS	THRM, BAM	1/6, Hourly			
17-167-0012	Sangamon	Springfield	State Fair Grounds	Agriculture Bldg.	IEPA	+39.83192087	-89.64416359	Springfield, IL	Population	N/A	Urban	Annual/24	N/A	SLAMS	THRM(2)	1/3			
17-197-1002	Will	Joliet	Midland & Campbell Sts.	Pershing Elementary School	IEPA	+41.52688509	-88.11647381	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS, SPMS	A1(2), BAM	1/6, Hourly			
17-197-1011	Will	Braidwood	36400 S. Essex Rd.	Com Ed Training Center	IEPA	+41.22153707	-88.19096718	Chicago-Naperville-Michigan City, IL-IN-WI	Background	Population	Regional	Annual/24	N/A	SLAMS	AS	1/3			
17-201-0013	Winnebago	Rockford	201 Division St.	Winnebago Co. Health Department	IEPA	+42.26308105	-89.09276716	Rockford, IL	Population	N/A	Urban	Annual/24	N/A	SLAMS, SPMS	A1(2), BAM	1/6, Hourly			

Analysis Method - AS (Anderson Sequential), A1 (Anderson single-event), RS (R&P Sequential), RP1 (R&P single-event), BGI, BAM (Beta Attenuation Monitor), THRM (Thermo FRM)
 Sampling Schedule - Hourly (1 hour samples), 1/1 (1 - 24 hour sample everyday), 1/3 (1 - 24 hour sample every 3 days), 1/6 (1 - 24 hour sample every 6 days)

Site/monitor discontinued
Site/monitor new
Analysis Method/Monitor Change

CCDEC - Cook County Department of Environmental Control
 IEPA - Illinois Environmental Protection Agency

PM2.5



ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2014

LEAD

AQS Site Identification Number	County	City	Address	Site Description	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter Lead Code 14129 Analysis & Sampling		
						Latitude	Longitude		Primary	Secondary				Analysis Method	Sampling Schedule	Collocate
17-031-0022	Cook	Chicago	3535 E. 114th St.	Washington High School	CCDEC	+41.68716544	-87.53931548	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Neighborhood	Discontinue	SLAMS	Hi-vol	1/6	
17-031-0110	Cook	Chicago	1241 19th St.	Perez Elementary School	CCDEC	+41.855917	-87.658419	H.G. Kramer	Source	N/A	Middle	N/A	SLAMS	Hi-vol	1/6	Y
17-031-3103	Cook	Schiller Park	4743 Mannheim Rd.	IEPA Trailer	IEPA	+41.96519348	-87.87626473	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-031-4201	Cook	Northbrook	750 Dundee Rd.	Northbrook Water Plant	IEPA	+42.13999619	-87.79922692	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	N/A	NCORE	Hi-vol	1/6	
17-031-6003	Cook	Maywood	1500 Maybrook Dr.	4th District Court Bldg.	CCDEC	+41.87220158	-87.8261648	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-031-0113	Cook	Riverdale	To Be Determined	Mittal Steel	IEPA	xxxx	xxxx	Mittal Steel	Highest Conc.	N/A	Middle	N/A	SLAMS	Hi-vol	1/6	
17-089-0113	Kane	Geneva	300 S. Glengarry Dr.	Johnson Controls	IEPA	xxxx	xxxx	Johnson Controls	Source	N/A	Middle	N/A	SPM	Hi-vol	1/6	
17-115-0110	Macon	Decatur	1226 E. Garfield	Mueller	IEPA	+39.862576	-88.940748	Garfield near Mueller	Source	N/A	Middle	N/A	SLAMS	Hi-vol	1/6	
17-119-0010	Madison	Granite City	15th & Madison	Air Products	IEPA	+38.69443831	-90.15395426	St Louis, IL-MO	Source	N/A	Middle	N/A	SLAMS	Hi-vol	1/6	Y
17-143-0110	Peoria	Bartonville	Sanitation Rd.	Pump Station	IEPA	+40.653703	-89.643375	Keystone Steal & Wire	Source	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-143-0210	Peoria	Mapleton	9725 W. Wheeler Rd.	David Residence	IEPA	+40.562633	-89.747114	Catepillar-Mapleton PIt.	Source	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-195-0110	Whiteside	Sterling	705 West 3rd St.	Sauk Medical Clinic	IEPA	+41.788383	-89.706728	Sterling Steal Co.	Source	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-201-0110	Winnebago	Rockford	305 Peoples Ave.	J. Rubin & Company	IEPA	+42.240867	-89.091467	Gunit Corporation	Source	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	

Analysis Method - Hi-vol (High volume sampler)
 Sampling Schedule - 1/6 (1 - 24 hour sample every 6 days)

CCDEC - Cook County Department of Environmental Control
 IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued
 Site/monitor new
 Analysis Method/Monitor Change

Lead

