

**Illinois**  
**Ambient Air Monitoring**  
**Network Plan – 2013**



Illinois Environmental Protection Agency  
Bureau of Air  
Air Monitoring Section

June, 2012

## **Illinois Ambient Air Monitoring Network Plan - 2013**

### Introduction

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 (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), lead (Pb), and Near Road NO<sub>2</sub>. 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<sub>2.5</sub> 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, as well as, 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).

Minimum site requirements are provided for ozone and particulate matter based on metropolitan statistical area (MSA) population. There are no minimum site requirements for carbon monoxide, nitrogen dioxide, or sulfur dioxide. Minimum site requirements for lead only apply in areas where sources (facilities) emit more than one-half ton per year of

lead. The Illinois air monitoring network meets or, in most cases, exceeds the minimum network requirements.

The 2013 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 and constitutes, not only an assessment of current state monitoring networks but also provides a multi-year plan (3-5 years) for development of state/regional network modifications.

### Network Implementation

Appendix E to Part 58 establishes the specific requirements for monitor/probe siting to ensure that the ambient data represents the stated objectives and spatial scale. These requirements are pollutant/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. In 2012 Illinois also operated a PAMS network in Chicago that is part of an USEPA approved “Alternate Plan for the Regional Lake Michigan PAMS Network”. The PAMS network encompasses monitoring requirements for both the Milwaukee and Chicago ozone nonattainment areas. Per 40 CFR 58.10 (a)(1) the PAMS designation is assigned based upon an area being considered serious, severe, or extreme ozone nonattainment. Illinois is not classified as an area having a serious, severe, or extreme ozone nonattainment area and plans to remove this designation though Illinois will not implement discontinuation changes in the 2013 plan at Northbrook, Braidwood, or Zion.

### 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. None of the continuous PM<sub>2.5</sub> samplers used are FRM or FEM. These samplers are intended to provide real-time particulate data for the Air Quality Index (AQI) and AIRNOW mapping purposes rather than compliance.

## Quality Assurance

Appendix A to Part 58 establishes the minimum quality system requirements for the criteria pollutant data submitted to EPA. 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). These two organizations meet and in most cases exceed the minimum requirements of Appendix A.

## Network Changes for 2013

The proposed 2013 network plan select discontinuations from the plan approved by US EPA and operated in 2012. Additions to the proposed network are operation of a Near Road NO<sub>2</sub> monitoring system in the greater Chicago area and the addition of a continuous PM<sub>2.5</sub> monitor at the Bondville rural NCore site. The design of the monitoring network for 2013 has also been based upon the assumption that funding to support the monitoring program is likely to be reduced in fiscal year 2013 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 2013 to support the completion and continued operation of the two NCore sites located in Northbrook and Bondville.

### **Proposed Monitoring Network Changes for 2013**

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

There is no federal/state monitoring requirement for carbon monoxide. Nine sites were operated in 2012 with seven to be discontinued in 2013.

## Nitrogen Dioxide

There is no federal/state monitoring requirement for nitrogen dioxide. However, three sites are required in the Chicago area as part of the USEPA approved “Lake Michigan Alternate PAMS Plan”. Illinois EPA will not discontinue the Northbrook, Braidwood, or Zion sites; however, Illinois will discontinue the PAMS designation of these and one other site. Seven sites were operated in 2012 with four to be discontinued in 2013.

### Sulfur Dioxide

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. A total of fourteen sites were operated in 2012 with two to be discontinued in 2013.

### Particulate Matter (PM10)

There are four sites required under federal/state rules, one in each of the four original PM10 nonattainment areas. A total of five sites were operated in 2012 with one to be discontinued in 2013.

### Particulate Matter (PM2.5)

There are five sites required under federal/state monitoring rules and two sites 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 four sites were operated in 2012 with one to be discontinued in 2013.

### Ozone

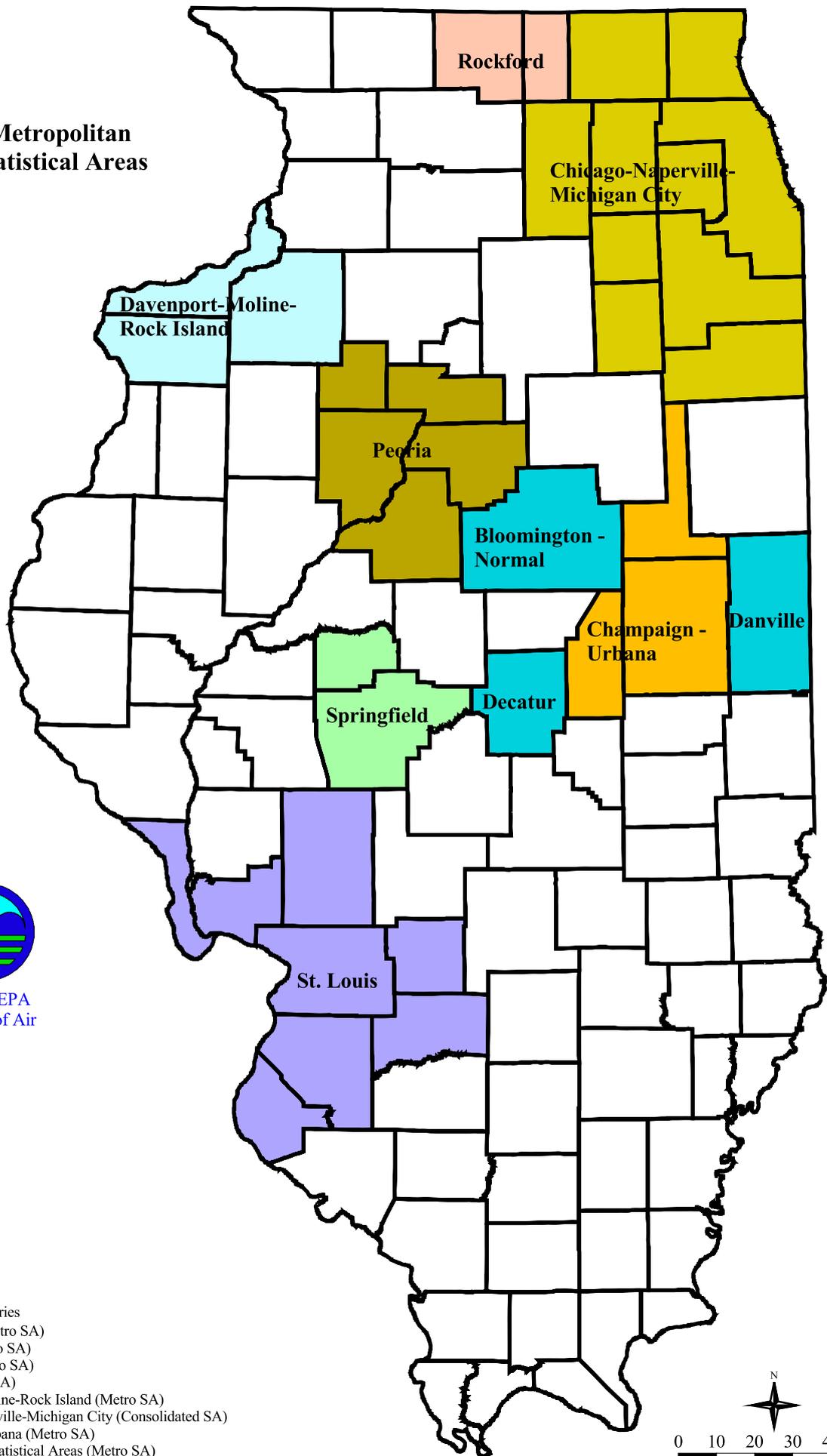
There are fifteen sites required under federal/state monitoring rules. Four sites were listed in the 2012 Network Plan as part of the “Lake Michigan Alternate PAMS Plan” bringing the state total number of required sites to nineteen. In the 2013 Network Plan there remains fifteen sites required site per 40 CFR Part 58 Appendix D. Illinois will continue to operate the four “Lake Michigan Alternate PAMS Plan” sites in 2013; again Illinois will not designate these sites as PAMS sites in the plan. Thirty four sites were operated in 2012. The 2013 plan proposes thirty four sites with a new site being added in Rockford due to an increase in population and an associated requirement within Part 58

that specifies a second site in Rockford area and the discontinuation of one site in Effingham.

### Lead

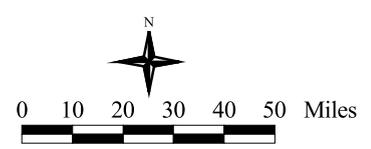
There are ten sites required under federal/state rules, eight in areas where significant lead industrial sources are located and two in large urbanized areas with populations greater than 500,000 people (Chicago and St. Louis). There were fifteen lead sites operated in 2012. The 2013 plan proposes thirteen sites.

# 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 - 2013

## CARBON MONOXIDE

AQS Site Identification Number	County	City	Address	Site Discription	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter	
						Latitude	Longitude		Primary	Secondary				CO Code 42101	Analysis & Sampling
17-031-0063	Cook	Chicago	321 S. Franklin	CTA Building	IEPA	+41.877628	-87.635027	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Micro	Discontinue	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.	N/A	Middle	Discontinue	SLAMS	TE	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	Discontinue	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	Neighborhood	N/A	NCORE	TEI	Hourly
17-031-6004	Cook	Maywood	1505 S. First Ave.	Com Ed Maintenance Bldg.	CCDEC	+41.87211684	-87.82908025	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Micro	Discontinue	SLAMS	API	Hourly
17-143-0036	Peoria	Peoria	1005 N. University	Commercial Bldg.	IEPA	+40.70007197	-89.61341375	Peoria, IL	Highest Conc.	N/A	Micro	Discontinue	SLAMS	TE	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
17-167-0008	Sangamon	Springfield	6th St. & Monroe	Federal Bldg.	IEPA	+39.7993092	-89.64760789	Springfield, IL	Highest Conc.	N/A	Micro	Discontinue	SLAMS	TE	Hourly
17-201-0011	Winnebago	Rockford	425 E. State	City Hall	IEPA	+42.26767353	-89.08785092	Rockford, IL	Highest Conc.	N/A	Micro	Discontinue	SLAMS	DA	Hourly

Analysis Method - TE (TECO 48), API (API 300), DA (DASIBI 3008), TEI(TECO 48I-TLE)

Sampling Schedule - Hourly (1 hour samples)

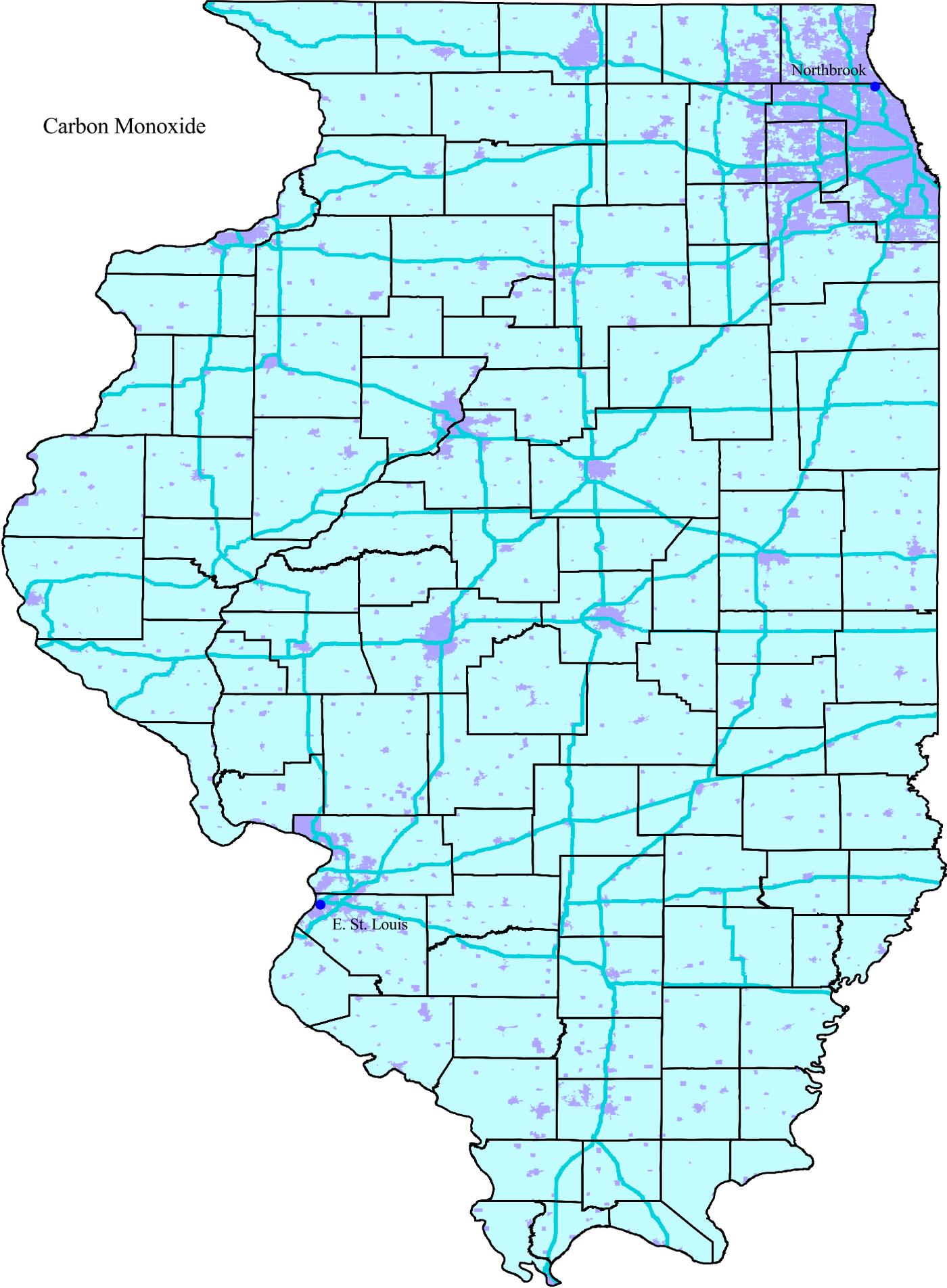
CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued

Site/monitor new

Carbon Monoxide



# ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013

## NITROGEN DIOXIDE

AQS Site Identification Number	County	City	Address	Site Discription	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter NO2 Code 42602	
						Latitude	Longitude		Primary	Secondary				Analysis & Sampling	
														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	TE	Hourly
17-031-0072	Cook	Chicago	1000 E. Ohio	Jardine Water Plant	IEPA	+41.89581227	-87.60768329	Chicago-Naperville-Michigan City, IL-IN-WI	Population	Source	Neighborhood	Discontinue	SLAMS	TE	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	Discontinue	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	Discontinue	SLAMS	TE	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	Discontinue	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	TE	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	TE	Hourly

Analysis Method - TE (TECO 42)

Sampling Schedule - Hourly (1 hour samples)

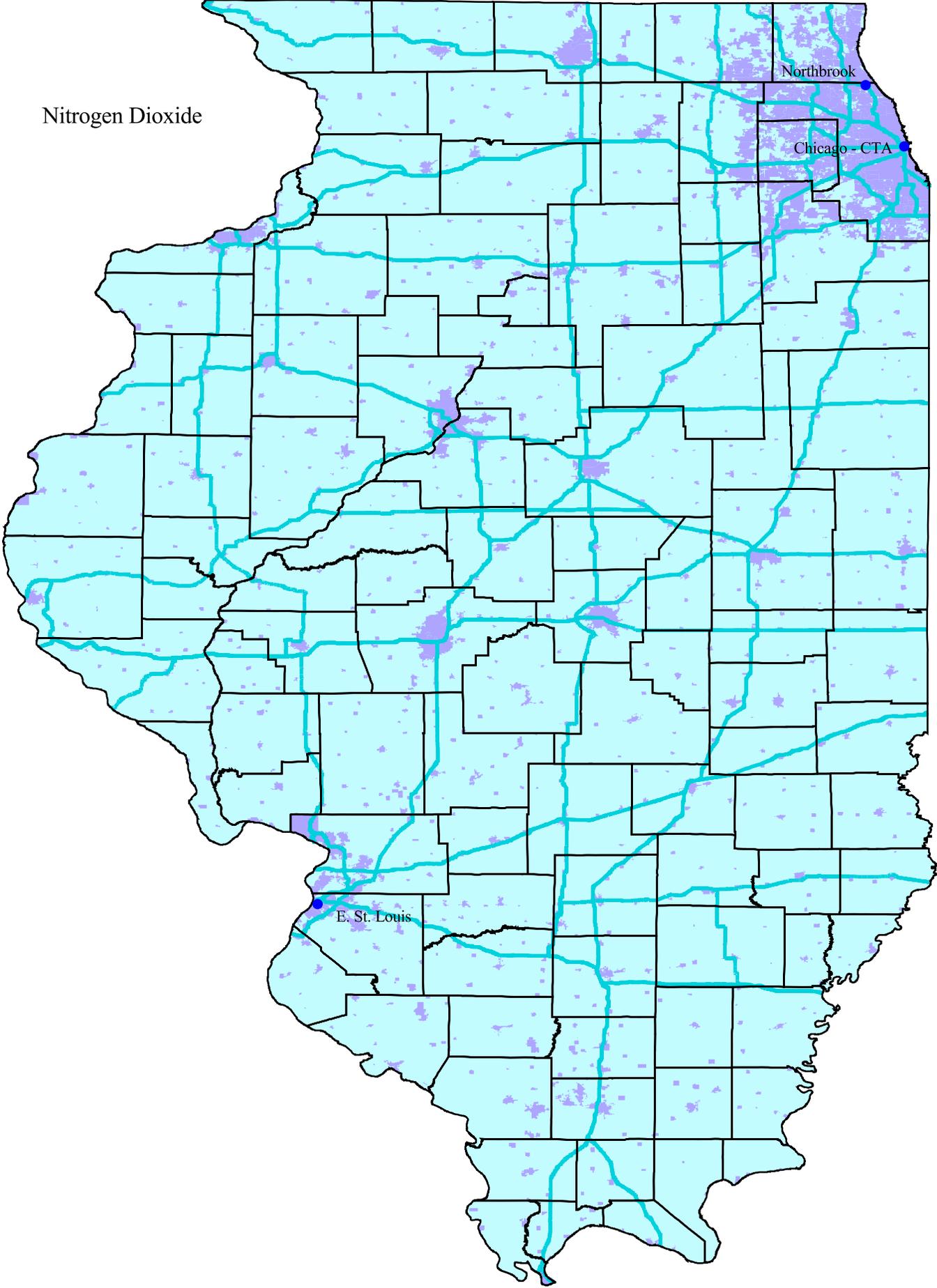
CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued

Site/monitor new

# Nitrogen Dioxide



## ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013 SULFUR DIOXIDE

AQS Site Identification Number	County	City	Address	Site Discription	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter SO2 Code 42401 Analysis & Sampling	
						Latitude	Longitude		Primary	Secondary				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	Discontinue	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	DA	Hourly
17-099-0007	La Salle	Oglesby	308 Portland Ave.	IEPA Trailer	IEPA	+41.29301454	-89.04942498	Ottawa-Streator, IL	Highest Conc.	Source	Neighborhood	Discontinue	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	DA	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	DA	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	DA	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	DA	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	DA	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	DA	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	DA	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	DA	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	DA	Hourly

Analysis Method - API (API 100), DA (DASIBI 4108)

Sampling Schedule - Hourly (1 hour samples)

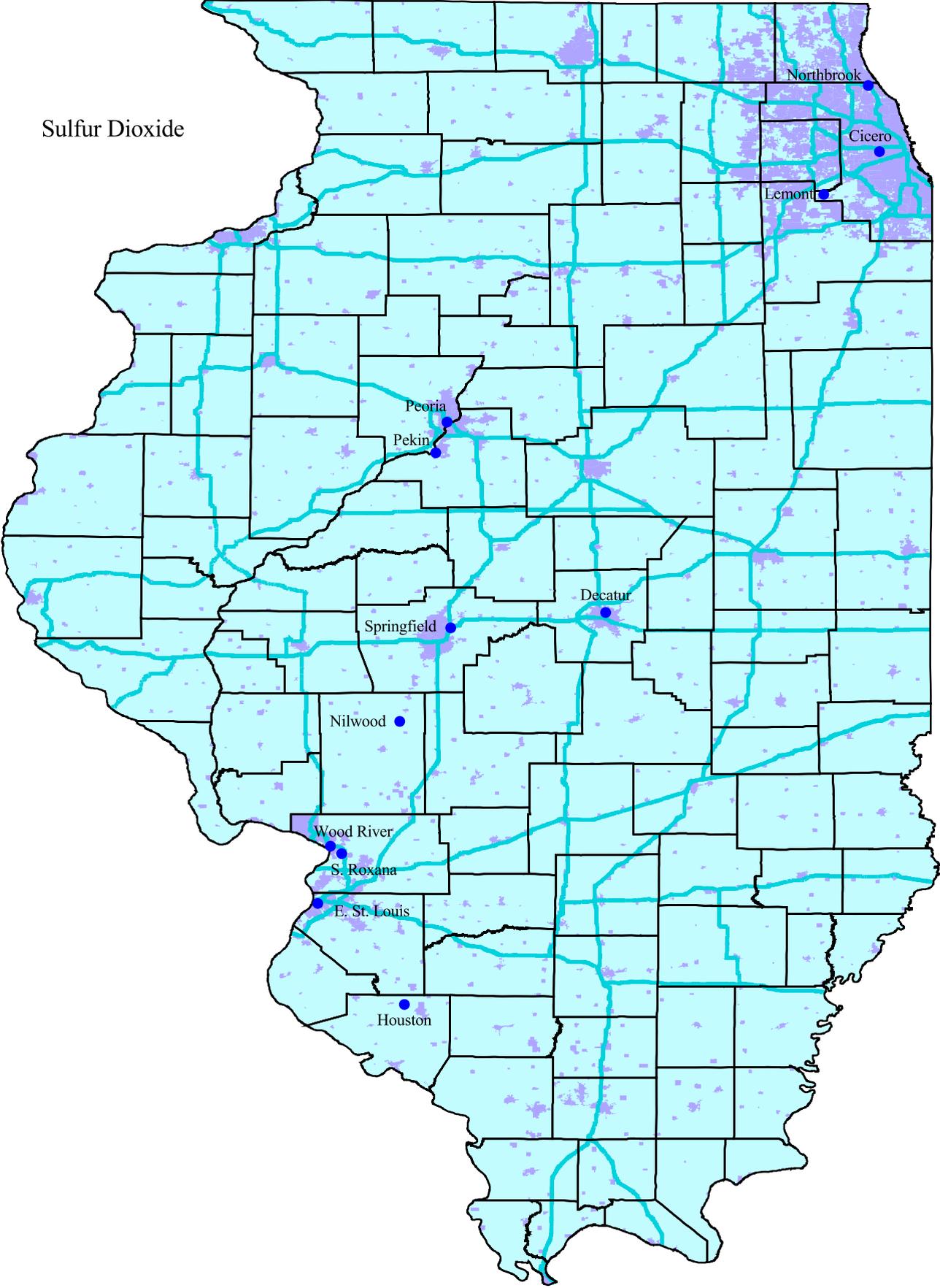
CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued

Site/monitor new

# Sulfur Dioxide



# ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013

## 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	TE	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	TE	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
17-031-0072	Cook	Chicago	1000 E. Ohio	Jardine Water Plant	IEPA	+41.89581227	-87.60768329	Chicago-Naperville-Michigan City, IL-IN-WI	Population	Source	Neighborhood	N/A	SLAMS	DA	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	DA	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	NCORE	DA	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	DA	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	DA	Hourly
17-049-1001	Effingham	Effingham	Route 45 South	Central Junior High School	IEPA	+39.06715932	-88.54893401	Effingham, IL	Population	N/A	Regional	Discontinue	SLAMS	DA	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	DA	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	TE	Hourly
17-089-0005	Kane	Elgin	665 Dundee Rd.	Larsen Junior High School	IEPA	+42.04914776	-88.2730293	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Urban	N/A	SLAMS	DA	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	SLAMS	DA	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	DA	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	TE	Hourly
17-115-0013	Macon	Decatur	2200 N. 22nd St.	IEPA Trailer	IEPA	+39.86683389	-88.92559445	Decatur, IL	Population	N/A	Urban	N/A	SLAMS	TE	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	TE	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	DA	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	API	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	DA	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	TE	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	TE	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	DA	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	TE	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	TE	Hourly
17-167-0014	Sangamon	Springfield	Illinois Building	State Fairgrounds	IEPA	+39.831522	-89.640926	Springfield, IL	Population	N/A	Urban	N/A	SLAMS	TE	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	SLAMS	DA	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	DA	Hourly
17-xxx-xxxx	Winnebago	To Be Determined	To Be Determined	To Be Determined	IEPA	xxxx	xxxx	Rockford, IL	Highest Conc.	Population	Urban	New 2013	SLAMS	DA	Hourly

Analysis Method - DA (DASIBI 1003), DA8 (DASIBI 1008), TE (TECO 49), API (API 400)

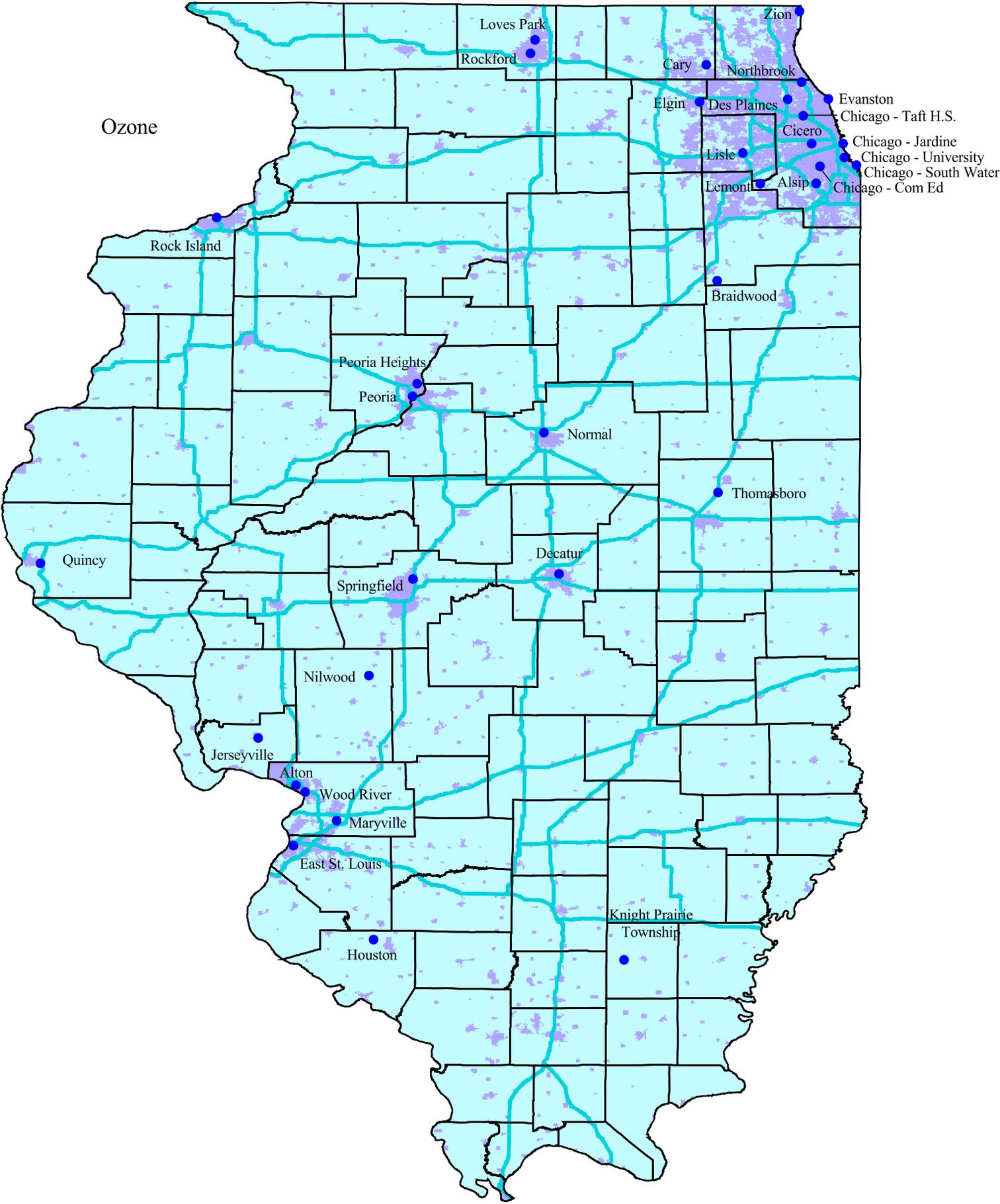
Sampling Schedule - Hourly (1 hour samples)

CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Site/monitor discontinued

Site/monitor new



## ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013 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		
						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	N/A	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	BETA	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	Hi-vol	1/6	Y
17-119-0010	Madison	Granite City	15th & Madison	Air Products	IEPA	+38.69443831	-90.15395426	St Louis, IL-MO	Highest Conc.	Source	Neighborhood	Discontinue	SLAMS	Hi-vol	1/6	
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	BETA	Hourly	

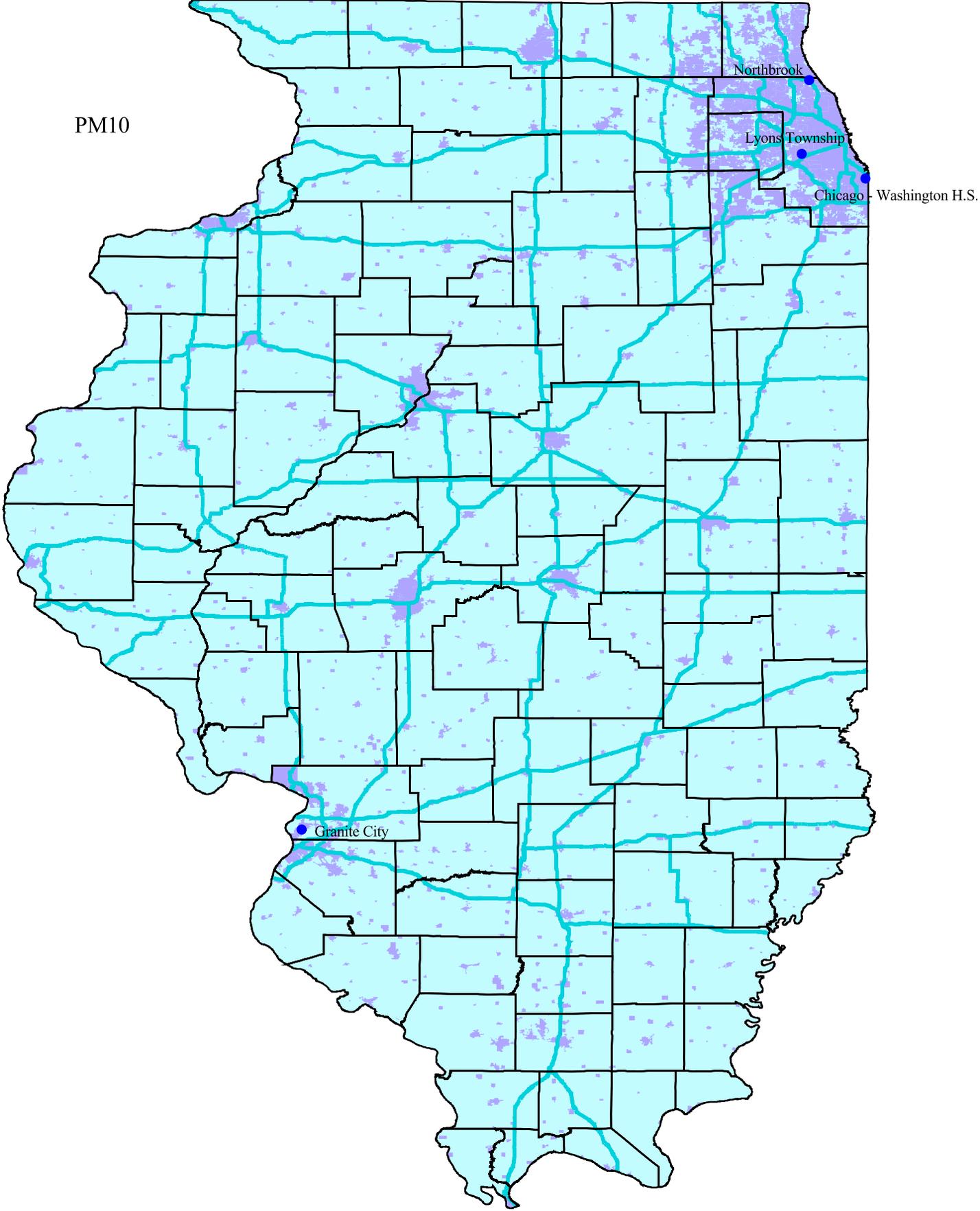
Analysis Method - Hi-vol (High volume sampler), BETA (Anderson Beta Attenuation Monitor)  
Sampling Schedule - Hourly (1 hour samples), 1/6 (1 - 24 hour sample every 6 days)

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

Site/monitor discontinued

Site/monitor new

PM10



Northbrook

Lyons Township

Chicago - Washington H.S.

Granite City

## ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013 PARTICULATE MATTER - PM2.5

AQ5 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															
17-001-0007	Adams	Quincy	1301 S. 48th St	John Wood Community College	IEPA	+39.91540937	-91.33586832	Quincy, IL-MO	Population	N/A	Urban	Annual/24	Discontinue	SLAMS	AS	1/6			
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	BGI	1/6			
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	BGL_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	SPMS	BAM	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, SPMS	AS,BAM	1/6, Hourly			
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,R&P(2)	1/1	Y		
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	1/3, Hourly		Y	1/6
17-031-0076	Cook	Chicago	7801 Lawndale	Com Ed Maintenance Bldg.	CCDEC	+41.96519348	-87.71348815	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS, SPMS	AS,BAM	1/3, 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	1/1			
17-031-2001	Cook	Blue Island	12700 Sacramento	Eisenhower High School	CCDEC	+41.66210943	-87.69646652	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	Annual/24	N/A	SLAMS	AS	1/3			
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	AS	1/3			
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(2)	1/3	Y		
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	AS	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	AS(2),BAM	1/3, Hourly	Y	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	AS	1/3			
17-031-6006	Cook	Maywood	1500 Maybrook Dr.	4th District Court Bldg.	CCDEC	+41.8728972	-87.82587249	Chicago-Naperville-Michigan City, IL-IN-WI	Population	N/A	Neighborhood	NA	N/A	SPMS	BAM	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, SPMS	RP1_BAM	1/6, Hourly		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, SPMS	A1	1/6			
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	AS	1/6			
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	AS	1/6			
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	RP1	1/6			
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	AS,BAM	1/3, 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	RP1_BGI	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	1/3, 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	BGI(2)	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	AS,BAM	1/1, Hourly			
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	BGI	1/6			
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, SPMS	BGI(2)	1/3, Hourly			
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	BGI(2),BAM	1/3, Hourly	Y		
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	A1	1/6	Y		
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,A1	1/6			
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	BGL_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	RP1(2)	1/3	Y		
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	A1	1/6			
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	A1	1/6			
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	AS	1/3			

Analysis Method - AS (Anderson Sequential), A1 (Anderson single-event), RS (R&P Sequential), R1 (R&P single-event), BGI, BAM (Met One Beta Attenuation Monitor)

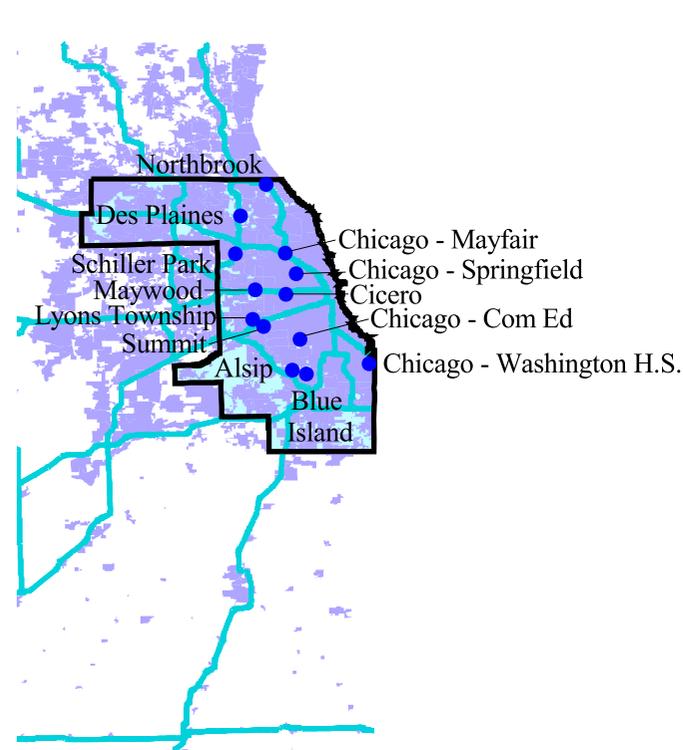
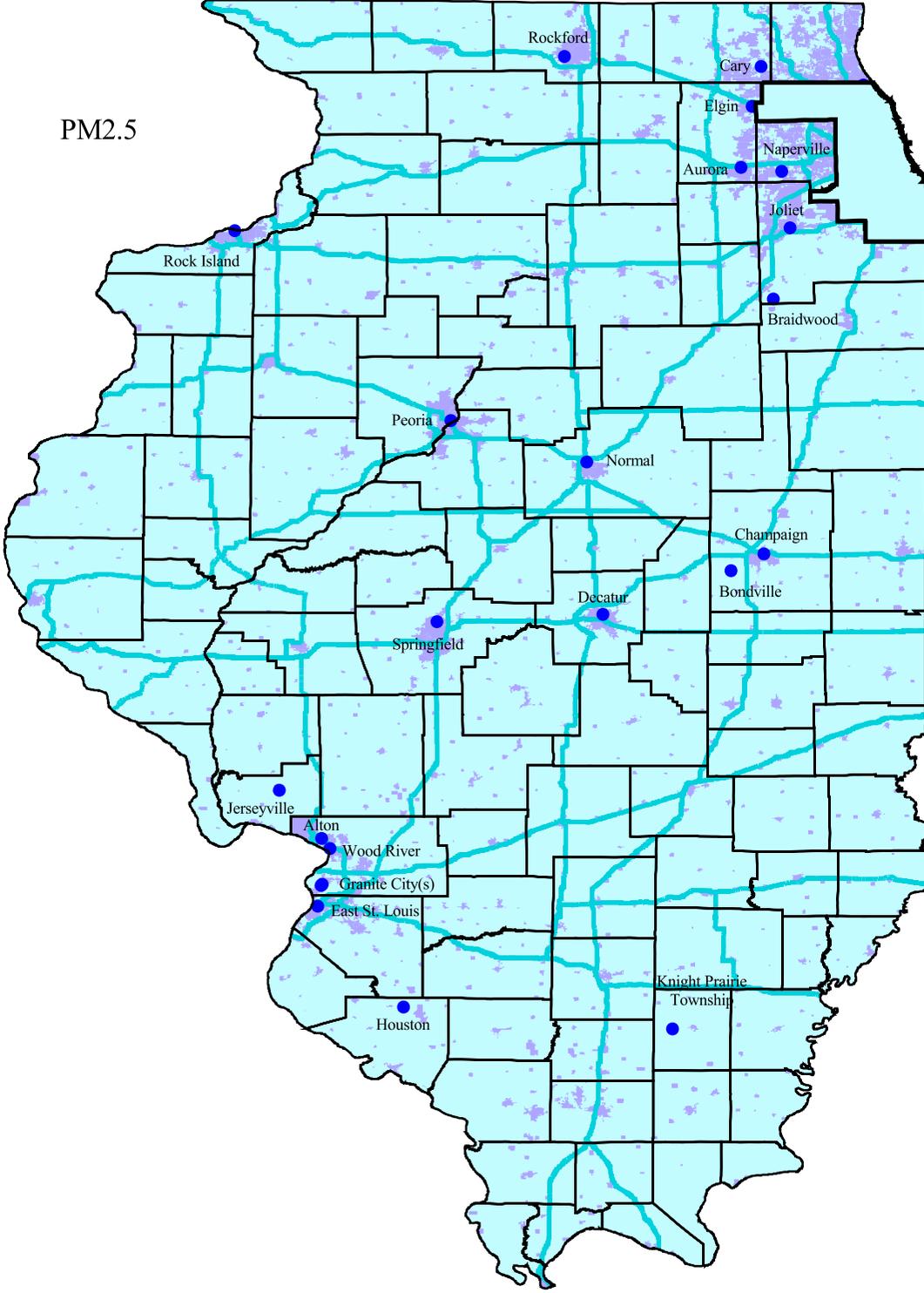
Sampling Schedule - Hourly (1 hour samples), 1/1 (1 - 24 hour sample everyday), 1/3 (1 - 24 hour sample every 3 days), 1/6 (1 - 24 hour sample every 6 days)

CCDEC - Cook County Department of Environmental Control

IEPA - Illinois Environmental Protection Agency

Submonitor discontinued  
Submonitor new

PM2.5



# ILLINOIS - ANNUAL MONITORING NETWORK PLAN - 2013

## LEAD

AQS Site Identification Number	County	City	Address	Site Discription	Site Operator	Geographical Coordinates		Area Represented	Monitoring Objectives		Spatial Scale	Proposal to Move or Discontinue	Monitoring Type	Parameter		
						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.	N/A	Neighborhood	N/A	SLAMS	Hi-vol	1/6	
17-031-0026	Cook	Chicago	735 W. Harrison	Cermak Pump Station	CCDEC	+41.87372041	-87.64532569	Chicago-Naperville-Michigan City, IL-IN-WI	Highest Conc.	N/A	Middle	Discontinue	SLAMS	Hi-vol	1/6	
17-031-0052	Cook	Chicago	4850 Wilson Ave.	Mayfair Pump Station	CCDEC	+41.96548483	-87.74992806	Chicago-Naperville-Michigan City, IL-IN-WI	Population	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	N/A	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	N/A	SLAMS	Hi-vol	1/6	
17-031-xxxx	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-xxxx	Kane	Geneva	300 S. Glengarry Dr.	Johnson Controls	IEPA	xxxx	xxxx	Johnson Controls	Source	N/A	Middle	N/A	SLAMS	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	N/A	SLAMS	Hi-vol	1/6	
17-143-0210	Peoria	Mapleton	9725 W. Wheeler Rd.	David Residence	IEPA	+40.562633	-89.747114	Catepillar-Mapleton Plt.	Source	N/A	Middle	N/A	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	N/A	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	N/A	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

