



Lead Testing in Drinking Water

Site:
Kiefer School (Notre Dame South)
401 NE Madison
Peoria, IL 61603

Local Education Agency:
Peoria Children's Home

Completion Date:
November 29, 2017



Public Act 099-0922

Public Act 099-0922, was passed into law in January 2017. The Act requires the Local Education Agency (LEA) to test for lead in all water sources used for cooking and drinking in schools built on or before January 1, 2000, where more than 10 pre-kindergarten through 5th grade children are present. The timeframe for compliance is December 31, 2017, for buildings constructed prior to January 1, 1987; and December 31, 2018, for those built between January 2, 1987 and January 1, 2000. Water samples are required to be analyzed by a method approved by the Illinois Environmental Protection Agency (IEPA) that provides a minimum reporting limit of 2 parts per billion (ppb). Notifications are required. Mitigation may be required based on test results. A Water Quality Management Plan (WQMP) is required.

Scope of Service

On November 29, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Kiefer School (Notre Dame South) in Peoria, IL at the request of the LEA. The water source locations were provided to IDEAL by the LEA.

Purpose of Sampling

Kiefer School (Notre Dame South) is a facility built prior to January 1, 2000, where pre-K through 5th grade students are present. The water was tested to identify possible lead contamination for compliance with Public Act 099-0922.

Sampling Methodology

Prior to sampling, in order to verify that the required 8-18 hour water stagnation period had been met, school personnel provided IDEAL's water collector with the date and time the plumbing system had last been used. The date and time provided are recorded on the chain of custody (COC).

For each water source identified by the LEA, a first-draw 250 milliliter (mL) sample of cold water was collected in a bottle provided by an IEPA-approved laboratory. A first-draw sample is the first amount of water collected from a source. After the first draw was collected, the source was flushed for 30 seconds, followed by the collection of a second-draw 250 mL sample of water. This second sample is called a flush sample. If multiple faucets use the same drain, only one second-draw (flush) sample may have been collected.

Each bottle was placed in a position that allowed for the collection of all of the water. Care was taken to prevent overflow. Each bottle was labeled with a unique identifier (sample ID). The sample ID was recorded on the COC, which lists the location of the sample, source of the sample, and the date and time the sample was collected.

The water bottles were delivered—with the COC to show the relinquishment and receipt of the samples—to an IEPA-accredited laboratory for analysis. The laboratory's accreditation was reviewed by IDEAL to ensure that it was current for an IEPA-approved method of analysis for lead in drinking water.



Summary of Sampling

16 water samples were collected from 8 sources. All results are shown in Table 1.1.

Table 1.1

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
K 1.01 FL	Kitchen - Double Sink - Left	KS - Kitchen Sink	First Draw	ND
K 1.01 SL	Kitchen - Double Sink - Left	KS - Kitchen Sink	Flush	ND
K 1.02 FR	Kitchen - Double Sink - Right	KS - Kitchen Sink	First Draw	ND
K 1.02 SR	Kitchen - Double Sink - Right	KS - Kitchen Sink	Flush	ND
K 1.03 FR	Kitchen - Single Sink	KS - Kitchen Sink	First Draw	ND
K 1.03 SR	Kitchen - Single Sink	KS - Kitchen Sink	Flush	ND
K 1.04 F	Hall by Office - Ground Floor	DF - Drinking Fountain	First Draw	ND
K 1.04 S	Hall by Office - Ground Floor	DF - Drinking Fountain	Flush	ND
K 1.41 F	Hall by Room 414 - 4th Floor	S - Sink	First Draw	ND
K 1.41 S	Hall by Room 414 - 4th Floor	S - Sink	Flush	ND
K 1.31 F	Hall by Room 310 - 3rd Floor	DF - Drinking Fountain	First Draw	ND
K 1.31 S	Hall by Room 310 - 3rd Floor	DF - Drinking Fountain	Flush	ND
K 1.21 F	Hall by Suite B - 2nd Floor	S - Sink	First Draw	ND
K 1.21 S	Hall by Suite B - 2nd Floor	S - Sink	Flush	ND
K 0.01 F	Hall by Vending - Basement	DF - Drinking Fountain	First Draw	ND
K 0.01 S	Hall by Vending - Basement	DF - Drinking Fountain	Flush	ND
ND = None Detected				



Notifications

This building is subject to the Act. Notification as outlined below is not optional.

Notification Requirements:

The Illinois Department of Public Health (IDPH) must be informed of the results. The LEA is also required to provide notification of all water testing results to parents and legal guardians of all enrolled students. Notification can be done, at a minimum, on the school's website. In addition, when any test result exceeds 5 ppb, individual written or electronic notification is required to be sent to parents and legal guardians of all enrolled students and must include the location and source exceeding 5 ppb, and the USEPA website for information about lead in drinking water: www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

Based on sample results, the following are notification requirements for this building:

- Submit to IDPH at dph.leadh2O@illinois.gov all sample results as shown in Table 1.1. As a courtesy, this step has been done by IDEAL. Please refer to Appendix A for electronic transmittal(s).
- Provide to parents and legal guardians all sample results as shown in Table 1.1. This can be done, at a minimum, on the school's website.



Mitigation

This building is subject to the Act. Mitigation is not optional.

Mitigation Requirements:

IDPH requires mitigation when lead is found in a sample above the minimum reporting limit (2 ppb). They recommend the sampling source be removed from service immediately upon learning that it has tested positive for lead. Re-testing is required after mitigation unless the sampling source is taken out of service. Mitigation is to continue until subsequent testing indicates lead levels are below the minimum reporting limit.

Based on sample results, the following are mitigation requirements for this building:

- All results were less than 2 ppb. No further action is needed.



Water Quality Management Plan

For all schools subject to the Act, regardless of lead results, a Water Quality Management Plan (WQMP) must be developed and maintained.

The need for re-testing after mitigation may be affected by the WQMP.

Refer to IDPH's website for steps to an effective WQMP:

www.dph.illinois.gov/sites/default/files/publications/school-lead-mitigation-strategies-050917.pdf

General Comments

Refer to Appendix C for the complete analysis report, including chain of custody and laboratory accreditation.

This report is based strictly on Illinois Public Act 099-0922. You may also wish to refer to the EPA's *3 T's for Reducing Lead in Drinking Water* for additional guidance.

IDEAL sampled according to accepted protocol for this project (unless otherwise noted by limitations in the description of the scope of work) and based on our interpretation of the regulations affecting schools. IDEAL shall not be held liable if sources are re-sampled and found to contain lead.

Room numbers, room dimensions, occupant names, building years, etc. may not be accurate in this report if information provided to us, such as on a diagram, was not current.

This report shall not be reproduced, except in full, without the written consent of IDEAL. Record retention by IDEAL is not guaranteed. IDEAL reserves the right to provide copies of chains of custody rather than originals, as the originals will only be archived for a limited period of time.

The scope of work presented in this report was based on an understanding between IDEAL and the client, whether the understanding was from verbal conversation or written document(s). The scope of work and report shall be deemed accepted by the client unless the client advises to the contrary in writing within 10 days of the date this report is sent.

Please call our office at (800)535-0964 or (309)828-4259 if you have any questions, or if we can be of further assistance with your mitigation, water retesting, the WQMP, or with other environmental services such as asbestos, indoor air quality or bleacher inspections.

Thank you for giving us the opportunity to provide this service to you. We sincerely appreciate the trust and confidence you have in our services.



Paul Weber

From: Paul Weber
Sent: Friday, December 29, 2017 9:23 AM
To: 'dph.leadh2O@illinois.gov'
Subject: Lead in Water Results - Peoria Children's Home
Attachments: J#21362A Kiefer School Lab Analysis.pdf; J#21362A Kiefer School IDPH Data Report.xlsx; J#21362B Youth Farm Lab Analysis Results.pdf; J#21362B Youth Farm IDPH Data Report.xlsx; Prairie Analytical Accreditation.pdf

On behalf of Peoria Children's Home, lead-in-water laboratory results and laboratory accreditation are attached for the following school(s):

**Youth Farm of Children's Home Association
Kiefer School**

If you have any questions or need additional information, please do not hesitate to call our office at (800)535-0964.

Paul Weber

Ideal Environmental Engineering, Inc.
2904 Tractor Lane
Bloomington, IL 61704
Ph: 309-828-4259 or 800-535-0964
Fax: 309-828-5735
Email: pweber@idealenvironmental.com

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Thursday, December 21, 2017

Central Office Staff
Ideal Environmental Engineering, Inc.
2904 Tractor Lane
Bloomington, IL 61704
TEL: (309) 828-4259
FAX: (309) 828-5735

RE: Kiefer School (Notre Dame South)

PAS WO: 17L0070

Prairie Analytical Systems, Inc. received 16 sample(s) on 12/1/2017 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (224) 253-1348.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Christina E. Pierce".

Christina E. Pierce
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

Prairie Analytical Systems, Inc.

Date: 12/21/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
 Project: Kiefer School (Notre Dame South) Lab Order: 17L0070
 Client Sample ID: K 1.01 FL Lab ID: 17L0070-01
 Collection Date: 11/29/17 5:35 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 18:56	EPA200.8 R5	LAH

Client Sample ID: K 1.01 SL Lab ID: 17L0070-02
 Collection Date: 11/29/17 5:36 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 18:58	EPA200.8 R5	LAH

Client Sample ID: K 1.02 FR Lab ID: 17L0070-03
 Collection Date: 11/29/17 5:37 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:01	EPA200.8 R5	LAH

Client Sample ID: K 1.02 SR Lab ID: 17L0070-04
 Collection Date: 11/29/17 5:38 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:03	EPA200.8 R5	LAH

Client Sample ID: K 1.03 FR Lab ID: 17L0070-05
 Collection Date: 11/29/17 5:39 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:05	EPA200.8 R5	LAH

Client Sample ID: K 1.03 SR Lab ID: 17L0070-06
 Collection Date: 11/29/17 5:40 Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:18	EPA200.8 R5	LAH

Prairie Analytical Systems, Inc.

Date: 12/21/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.		Lab Order:	17L0070					
Project:	Kiefer School (Notre Dame South)		Lab ID:	17L0070-07					
Client Sample ID:	K 1.04 F		Matrix:	Drinking Water					
Collection Date:	11/29/17 5:45								
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:20	EPA200.8 R5	LAH
Client Sample ID:	K 1.04 S		Lab ID:	17L0070-08					
Collection Date:	11/29/17 5:46		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:23	EPA200.8 R5	LAH
Client Sample ID:	K 1.41 F		Lab ID:	17L0070-09					
Collection Date:	11/29/17 5:52		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:25	EPA200.8 R5	LAH
Client Sample ID:	K 1.41 S		Lab ID:	17L0070-10					
Collection Date:	11/29/17 5:53		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:27	EPA200.8 R5	LAH
Client Sample ID:	K 1.31 F		Lab ID:	17L0070-11					
Collection Date:	11/29/17 5:59		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:29	EPA200.8 R5	LAH
Client Sample ID:	K 1.31 S		Lab ID:	17L0070-12					
Collection Date:	11/29/17 6:00		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:31	EPA200.8 R5	LAH

Prairie Analytical Systems, Inc.

Date: 12/21/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.		Lab Order:	17L0070					
Project:	Kiefer School (Notre Dame South)		Lab ID:	171.0070-13					
Client Sample ID:	K 1.21 F		Matrix:	Drinking Water					
Collection Date:	11/29/17 6:09								
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:34	EPA200.8 R5	LAH
Client Sample ID:	K 1.21 S		Lab ID:	171.0070-14					
Collection Date:	11/29/17 6:10		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:23	12/18/17 19:42	EPA200.8 R5	LAH
Client Sample ID:	K 0.01 F		Lab ID:	171.0070-15					
Collection Date:	11/29/17 6:16		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:24	12/18/17 19:49	EPA200.8 R5	LAH
Client Sample ID:	K 0.01 S		Lab ID:	17L0070-16					
Collection Date:	11/29/17 6:17		Matrix:	Drinking Water					
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	12/18/17 9:24	12/18/17 19:58	EPA200.8 R5	LAH

Prairie Analytical Systems, Inc.

Date: 12/21/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Kiefer School (Notre Dame South)

Lab Order: 17L0070

Notes and Definitions

- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 851-2804 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



Client / Address: Ideal Environmental Engineering, Inc. / 2904 Tractor Lane
 City, State, Zip Code: Bloomington, IL 61704
 Phone / Facsimile: 309-828-4259 / 309-828-5735
 P.O. (if any) / LEA: J#21362A / Peoria Children's Home
 Building Description: Kiefer School (Notre Dame South)
 Address: 401 NE Madison, Peoria, IL 61603
 ISBE ID: 48-072-0052-00-0408
 Contact/E-Mail Address: Central Office Staff / leadinwater@idealenvironmental.com

Sample ID	Sample Location Description	Date	Time
K1.01FL	KITCHEN SINK	11-27-17	5:35
K1.01SL	DOUBLE SINK		5:36
K1.02FR			5:37
K1.02SR			5:38
K1.03FR	SINK		5:39
K1.03SR			5:40
K1.04F	HALL BY OFFICE GROUND FLOOR		5:45
K1.04S			5:46
K1.41F	HALL BY 414 4TH FLOOR		5:52
K1.41S			5:53
K1.31F	HALL BY 310 3RD FLOOR		5:59
K1.31S			6:00

Matrix: Drinking Water
 Relinquished By: Scott Lischewski
 Date: 11-30-17
 Time: 9:00 AM
 Preservative: None
 Date: 11-30-17
 Time: 11:30
 Received By: BO-RW
 Date: 11/30/17
 Analysis/Method Requested: Lead
 Date: 12/17/17
 Method of Shipment: *FAST*

First Draw Sample = 1
 Second Draw (30-Second Flush) = 2
 250 ml Collected? Y N
 Source Type: (Single Source/Single Drain=SS, Double Source/Double Drain=DD)
 When Side by Side Fountains, etc exist, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable.
 Fixture Type: (D=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=Other)
 Turnaround Time: Standard Rush
 Temperature (°C): 16.8

es. - White - Client / Yellow - PAS, Inc. / Pink - Sampler
 COC - IDEAL

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1146 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60158 - Phone (847) 851-2604 - Facsimile (847) 456-9680
 Central/Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client/Address		Ideal Environmental Engineering, Inc. / 2904 Tractor Lane	
City/State/Zip Code	Bloomington, IL 61704	City/State/Zip Code	Bloomington, IL 61704
Phone / Facsimile	309-828-4259 / 309-828-5735	Phone / Facsimile	309-828-4259 / 309-828-5735
P.O. (J#) / LEA	J#21362A / Peoria Children's Home	P.O. (J#) / LEA	J#21362A / Peoria Children's Home
Building Description	Kiefer School (Notre Dame South)	Building Description	Kiefer School (Notre Dame South)
Address	401 NE Madison, Peoria, IL 61603	Address	401 NE Madison, Peoria, IL 61603
ISBE ID	48-072-0052-00-0408	ISBE ID	48-072-0052-00-0408
Contact/E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com	Contact/E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com
Sample ID	Sample Location Description	Date	Sample Time
K121F	SINK BY SUITE B 2ND FLOOR	11-28-17	6:09
K121S	↓ ↓ ↓ ↓ ↓	↓	6:10
KD10F	HALL BY VENDING, BASEMENT	↓	6:16
KD10S	↓ ↓ ↓ ↓ ↓	↓	6:17

Sample Location Details		Miscellaneous	
Fixture Type	When Side by Side Fountains, etc. exist, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable	# of sources / # of samples:	Date Water Last Used
DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Boiler Filler, O=Other		8/16	11-28-17
Source Type: (Single Source/Single Drain=SS, Double Source/Double Drain=DJ)			Time Water Last Used: 6:00PM
250 ml Collected?			Make / Model
First Draw Sample = 1			SINK
Second Draw (30-Second Flush) = 2			↓
			ELKAY/BUE
			GUARD

Analysis/Method Requested: Lead	Received By	Date	Method of Shipment
Matrix: Drinking Water			
Relinquished By			
Collected By: SCOTT L. GARDNER		11-30-17 9:00 AM	
IDEAL Lead in Water Dept.,			
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		12-1-17 3:00 PM	Temperature (°C) 16.8

2443/L



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION



is hereby granted to

PRAIRIE ANALYTICAL SYSTEMS, INCORPORATED
1210 CAPITAL AIRPORT DRIVE
SPRINGFIELD, IL 62707-8413
NELAP ACCREDITED
ACCREDITATION NUMBER #100323



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Celeste M. Crowley
Acting Manager
Environmental Laboratory Accreditation Program

John South
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 004184
Expiration Date: 01/31/2018
Issued On: 06/20/2017

**State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval to:**

Certificate No.: 004184

Prairie Analytical Systems, Incorporated
1210 Capital Airport Drive
Springfield, IL 62707-8413

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

FOT Name: Drinking Water, Inorganic

Method: SM2130B,18Ed

Matrix Type: Potable Water

Turbidity

Method: SM2320B,18Ed

Matrix Type: Potable Water

Alkalinity

Method: SM2340B,18Ed

Matrix Type: Potable Water

Hardness

Method: SM4110B,18Ed

Matrix Type: Potable Water

Chloride

Fluoride

Nitrate

Nitrite

Orthophosphate as P

Sulfate

Method: SM4500CN-E,18Ed

Matrix Type: Potable Water

Cyanide

Method: SM4500H-B,18Ed

Matrix Type: Potable Water

Hydrogen ion (pH)

Method: SM5310C,20Ed

Matrix Type: Potable Water

Total Organic Carbon (TOC)

Method: USEPA150.1

Matrix Type: Potable Water

Hydrogen ion (pH)

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

**State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval**

Certificate No.: 004184

Prairie Analytical Systems, Incorporated
1210 Capital Airport Drive
Springfield, IL 62707-8413

FOT Name: Drinking Water, Inorganic

Method: USEPA200.7R4.4

Matrix Type: Potable Water

Aluminum
Barium
Cadmium
Chromium
Hardness (calc.)
Magnesium
Nickel
Sodium

Arsenic
Beryllium
Calcium
Copper
Iron
Manganese
Silver
Zinc

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum
Arsenic
Beryllium
Chromium
Lead
Mercury
Nickel
Silver
Zinc

Antimony
Barium
Cadmium
Copper
Manganese
Molybdenum
Selenium
Thallium

Method: USEPA245.2

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Chloride
Nitrate
Orthophosphate as P

Fluoride
Nitrite
Sulfate

FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,1,1-Trichloroethane
1,1-Dichloroethene
1,2-Dichlorobenzene

1,1,2-Trichloroethane
1,2,4-Trichlorobenzene
1,2-Dichloroethane

**State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval**

Certificate No.: 004184

Prairie Analytical Systems, Incorporated
1210 Capital Airport Drive
Springfield, IL 62707-8413

FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,4-Dichlorobenzene
Bromodichloromethane
Carbon tetrachloride
Chlorodibromomethane
cis-1,2-Dichloroethene
Ethylbenzene
Naphthalene
Tetrachloroethene
Total trihalomethanes
Trichloroethylene
Xylenes (total)

1,2-Dichloropropane
Benzene
Bromoform
Chlorobenzene
Chloroform
Dichloromethane (Methylene chloride)
Methyl tert-butyl ether (MTBE)
Styrene
Toluene
trans-1,2-Dichloroethene
Vinyl chloride

FOT Name: Non Potable Water, Inorganic

Method: SM2130B,2001

Matrix Type: NPW/SCM

Turbidity

Method: SM2310B,1997

Matrix Type: NPW/SCM

Acidity

Method: SM2320B,1997

Matrix Type: NPW

Alkalinity

Method: SM2340B,1997

Matrix Type: NPW

Hardness

Method: SM2540B,1997

Matrix Type: NPW

Residue (Total)

Method: SM2540C,1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D,1997

Matrix Type: NPW

Residue (TSS)

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FOT Name: Non Potable Water, Inorganic

Method: SM3500Cr-B,2009

Matrix Type: NPW/SCM

Chromium VI

Method: SM4110B,2000

Matrix Type: NPW/SCM

Bromide

Chloride

Fluoride

Nitrate

Nitrate-Nitrite (as N)

Nitrite

Orthophosphate (as P)

Sulfate

Method: SM4500Cl-G,2000

Matrix Type: NPW

Chlorine, Total Residual

Method: SM4500CN-E,1999

Matrix Type: NPW

Cyanide

Method: SM4500H-B,2000

Matrix Type: NPW

Hydrogen Ion (pH)

Method: SM4500NH3-D,1997

Matrix Type: NPW/SCM

Ammonia

Total Kjeldahl Nitrogen

Method: SM4500NH3-G,1997

Matrix Type: NPW

Ammonia

Method: SM4500O-G,2001

Matrix Type: NPW

Oxygen - Dissolved

Method: SM4500P-E,1999

Matrix Type: NPW

Orthophosphate (as P)

Phosphorus

Method: SM4500P-F,1999

Matrix Type: NPW

Orthophosphate (as P)

Method: SM4500S2-F,2000

Matrix Type: NPW/SCM

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FOT Name: Non Potable Water, Inorganic	Method: SM4500S2-F,2000
Matrix Type: NPW/SCM	Sulfide
Method: SM5210B,2001	
Matrix Type: NPW	
Biochemical Oxygen Demand (BOD)	
Matrix Type: NPW/SCM	
Carbonaceous Biochemical Oxygen Demand (CBO)	
Method: SM5220D,1997	
Matrix Type: NPW	
Chemical Oxygen Demand (COD)	
Method: SM5310C,2000	
Matrix Type: NPW	
Total Organic Carbon (TOC)	
Method: USEPA160.4,1971	
Matrix Type: NPW	
Residue (Volatile)	
Method: USEPA1664A	
Matrix Type: NPW	
Oil and Grease	
Method: USEPA180.1R2.0,1993	
Matrix Type: NPW	
Turbidity	
Method: USEPA200.7,1994	
Matrix Type: NPW/SCM	
Aluminum	Antimony
Arsenic	Barium
Beryllium	Cadmium
Calcium	Chromium
Cobalt	Copper
Iron	Lead
Magnesium	Manganese
Molybdenum	Nickel
Potassium	Selenium
Silver	Sodium
Thallium	Tin

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FOT Name: Non Potable Water, Inorganic **Method: USEPA200.7,1994**

Matrix Type: NPW/SCM

Vanadium

Titanium

Zinc

Method: USEPA200.8,1994

Matrix Type: NPW/SCM

Aluminum

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Nickel

Selenium

Sodium

Tin

Vanadium

Antimony

Barium

Boron

Calcium

Cobalt

Iron

Magnesium

Molybdenum

Potassium

Silver

Thallium

Titanium

Zinc

Method: USEPA245.2, 1974

Matrix Type: NPW/SCM

Mercury

Method: USEPA300.0R2.1,1993

Matrix Type: NPW

Bromide

Fluoride

Nitrate-Nitrite (as N)

Orthophosphate (as P)

Chloride

Nitrate

Nitrite

Sulfate

Method: USEPA310.2, 1974

Matrix Type: NPW

Alkalinity

Method: USEPA335.4R1.0,1993

Matrix Type: NPW/SCM

Cyanide

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

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FOT Name: Non Potable Water, Inorganic

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

Ammonia

Method: USEPA365.1R2.0,1993

Matrix Type: NPW

Orthophosphate (as P)

Method: USEPA410.4R2.0,1993

Matrix Type: NPW

Chemical Oxygen Demand (COD)

Method: USEPA420.1,1978

Matrix Type: NPW

Phenolics

Method: USEPA420.4R1.0,1993

Matrix Type: NPW

Phenolics

FOT Name: Solid and Chemical Materials, Inorganic

Method: 1010A

Matrix Type: NPW/SCM

Ignitability

Method: 1311

Matrix Type: SCM

TCLP (Organic and Inorganic)

Method: 1312

Matrix Type: SCM

Synthetic Precipitation Leaching Procedure

Method: 6010B

Matrix Type: NPW/SCM

Antimony

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 6010B

Matrix Type: NPW/SCM

Strontium
Tin
Vanadium

Sodium
Thallium
Titanium
Zinc

Method: 6020A

Matrix Type: NPW/SCM

Aluminum
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Manganese
Molybdenum
Potassium
Silver
Thallium
Zinc

Antimony
Barium
Boron
Calcium
Cobalt
Iron
Magnesium
Mercury
Nickel
Selenium
Sodium
Vanadium

Method: 7196A

Matrix Type: NPW/SCM

Chromium VI

Method: 7470A

Matrix Type: NPW

Mercury

Method: 7471B

Matrix Type: SCM

Mercury

Method: 9014

Matrix Type: NPW/SCM

Cyanide

Method: 9034

Matrix Type: NPW/SCM

Sulfides

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 9040B

Matrix Type: NPW

Hydrogen Ion (pH)

Method: 9040C

Matrix Type: NPW

Hydrogen Ion (pH)

Method: 9045C

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9045D

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9056A

Matrix Type: NPW/SCM

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Phosphate

Sulfate

Method: 9065

Matrix Type: NPW/SCM

Phenolics

Method: 9081

Matrix Type: NPW/SCM

Cation-exchange Capacity

Method: 9095A

Matrix Type: NPW/SCM

Paint Filter

FOT Name: Solid and Chemical Materials, Organic

Method: 8015B

Matrix Type: NPW/SCM

Gasoline range organics (GRO)

Method: 8081A

Matrix Type: NPW/SCM

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

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FOT Name: Solid and Chemical Materials, Organic

Method: 8081A

Matrix Type: NPW/SCM

alpha-Chlordane
Chlordane - not otherwise specified
Dieldrin
Endosulfan II
Endrin
Endrin ketone
gamma-Chlordane
Heptachlor epoxide
Toxaphene

alpha-BHC
beta-BHC
delta-BHC
Endosulfan I
Endosulfan sulfate
Endrin aldehyde
gamma-BHC (Lindane)
Heptachlor
Methoxychlor

Method: 8082

Matrix Type: NPW/SCM

PCB-1016
PCB-1232
PCB-1248
PCB-1260

PCB-1221
PCB-1242
PCB-1254

Method: 8260B

Matrix Type: NPW/SCM

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,1-Dichloroethane
1,1-Dichloropropene
1,2,3-Trichloropropane
1,2,4-Trimethylbenzene
1,2-Dibromoethane (EDB)
1,2-Dichloroethane
1,3,5-Trimethylbenzene
1,3-Dichloropropane
2,2-Dichloropropane
2-Chloroethyl vinyl ether
2-Hexanone
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)
Acetonitrile
Acrylonitrile

1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1-Dichloroethene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
4-Chlorotoluene
Acetone
Acrolein (Propenal)
Benzene

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FOT Name: Solid and Chemical Materials, Organic**Matrix Type: NPW/SCM**

Bromochloromethane
 Bromoform
 Carbon disulfide
 Chlorobenzene
 Chloroethane
 Chloromethane
 cis-1,3-Dichloropropene
 Dichloromethane (Methylene chloride)
 Isopropylbenzene
 Naphthalene
 n-Propylbenzene
 sec-Butylbenzene
 tert-Butylbenzene
 Toluene
 trans-1,3-Dichloropropene
 Trichlorofluoromethane
 Vinyl chloride

Method: 8270C**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene
 1,3-Dichlorobenzene
 2,2-Oxybis (1-chloropropane)
 2,4,6-Trichlorophenol
 2,4-Dimethylphenol
 2,4-Dinitrotoluene (2,4-DNT)
 2-Chloronaphthalene
 2-Methylnaphthalene
 2-Nitroaniline
 3,3'-Dichlorobenzidine
 4,6-Dinitro-2-methylphenol
 4-Chloro-3-methylphenol
 4-Chlorophenyl phenyl ether
 4-Nitroaniline
 Acenaphthene

Method: 8260B

Bromobenzene
 Bromodichloromethane
 Bromomethane
 Carbon tetrachloride
 Chlorodibromomethane (Dibromochloromethane)
 Chloroform
 cis-1,2-Dichloroethene
 Dichlorodifluoromethane
 Ethylbenzene
 Methyl-t-butyl ether
 n-Butylbenzene
 p-Isopropyltoluene
 Styrene
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl acetate
 Xylenes (Total)

1,2-Dichlorobenzene
 1,4-Dichlorobenzene
 2,4,5-Trichlorophenol
 2,4-Dichlorophenol
 2,4-Dinitrophenol
 2,6-Dinitrotoluene (2,6-DNT)
 2-Chlorophenol
 2-Methylphenol (o-Cresol)
 2-Nitrophenol
 3-Nitroaniline
 4-Bromophenyl phenyl ether
 4-Chloroaniline
 4-Methylphenol (p-Cresol)
 4-Nitrophenol
 Acenaphthylene

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FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Benzo(a)anthracene
 Benzo(b)fluoranthene
 Benzo(k)fluoranthene
 Bis(2-chloroethyl) ether
 Butyl benzyl phthalate
 Carbofuran (Furaden)
 Chrysene
 Dibenzofuran
 Dimethyl phthalate
 Di-n-octyl phthalate
 Fluorene
 Hexachlorobutadiene
 Hexachloroethane
 Isophorone
 Nitrobenzene
 N-Nitrosodi-n-propylamine
 o-Cresol (2-Methylphenol)
 Pentachlorophenol
 Phenol

Method: 8270C Mod_Farm Chemicals**Matrix Type: NPW/SCM**

Acetochlor
 Atrazine
 Chlorpyrifos
 EPTC
 Metribuzin
 Prometon
 Terbufos

Method: 8321B**Matrix Type: NPW/SCM**

2,4,5-T
 2,4-D
 Aldicarb (Temik)

Method: 8270C

Anthracene
 Benzo(a)pyrene
 Benzo(g,h,i)perylene
 Bis(2-chloroethoxy) methane
 Bis(2-ethylhexyl) phthalate
 Carbazole
 Chlorobenzilate
 Dibenz(a,h)anthracene
 Diethyl phthalate
 Di-n-butyl phthalate
 Fluoranthene
 Hexachlorobenzene
 Hexachlorocyclopentadiene
 Indeno(1,2,3-cd) pyrene
 Naphthalene
 N-Nitrosodimethylamine
 N-Nitrosodiphenylamine
 p-Cresol (4-Methylphenol)
 Phenanthrene
 Pyrene

Alachlor
 Butylate
 Cyanazine
 Metolachlor
 Pendimethalin
 Simazine
 Trifluralin

2,4,5-TP (Silvex)
 2,4-DB
 Carbofuran (Furaden)

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FOT Name: Solid and Chemical Materials, Organic

Method: 8321B

Matrix Type: NPW/SCM

Dicamba

MCPA

Oxamyl

Dalapon

Dinoseb

MCPP



