February 7, 2018

Re: Potomac Elementary School – Lead in Drinking Water Testing Notification

Illinois Public Act 99-922 requires all pre-K through 5th grade schools built before January 1, 2000, to test the level of lead in the water from every outlet that could be used for drinking or food preparation. All sampling results must be submitted to the Illinois Department of Public Health and provided to parents and legal guardians of enrolled students. In addition, if lead is found at levels above 5 parts per billion (ppb), the school district must *individually* notify parents in writing or electronically.

On November 8, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Potomac Elementary School in Potomac, IL. At the request of the Potomac CUSD #10 a second retesting of the non drinking water was done on January 11, 2018, by Ideal Environmental Engineering (IDEAL).

This building was built prior to January 1, 2000, and pre-K through 5th grade students are present. The water was tested to identify possible lead contamination for compliance with Public Act 099-0922.

*****We are pleased to report that there were no lead levels exceeding the 5 ppb threshold in any of our drinking water utilities. Please go to our website www.potomac.k12.il.us to view all the sample results.**

The following is notification for any sample result found to contain lead levels exceeding 5 ppb in our non drinking water utilities. Item PE 08a is a sprayer in the kitchen, Items PE 08a and 10a are kitchen sinks and item PE10a is a sink that is has not been used for many years. However, our school district is in the process of a Water Quality Management Plan that will involve plumbing maintenance, flushing, filtering, and retesting of the affected areas in order to improve the water quality for our school.

November 8, 2017 Sample Location Description	Fixture Type	Sample Type	Concentration
PE 08a Kitchen Prep - N. Wall - Sprayer	O - Other	First Draw	8.17 ppb
PE 10a Kitchen Prep - N. Wall - Left (not used)	KS - Kitchen Sink	First Draw	45.9 ppb

Re-Test & Flush January 11, 2018 Sample Location Description	Fixture Type	Sample Type	Concentration
PE 08a Kitchen Prep - N. Wall - Sprayer	O - Other	First Draw then Flush	34.6 ppb
PE 10a Kitchen Prep - N. Wall - Left (not used)	KS - Kitchen Sink	First Draw then Flush	No Detection
PE 09a Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	First Draw then Flush	9.36 ppb

*****PLEASE NOTE:** When a first draw or flush sample is less than 5 ppb, notification is not required. For instance, if a first draw sample is higher than 5 ppb but the flush sample is less than 5 ppb, the flush sample will not be on the notification.

For information about lead in drinking water, visit the USEPA website at: www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water.

IDPH requires mitigation for any sample results found above the laboratory detection limit for all schools subject to the Act. IDPH set a minimum reporting limit of 2 ppb. Please note this mitigation requirement set by the state is significantly more stringent than the 20 ppb action level recommended by the US EPA for school outlets.

Please be assured that we will continue to take all action necessary to protect student health. Mitigation and water management are in progress. Water outlets are being shut off, and we have already begun to take appropriate remedial action for any levels above the laboratory reporting limit.

The risk to an individual child from exposure to lead in drinking water depends on many factors, including the amount of lead in the water, the frequency, duration, and dose of the exposure(s), and individual susceptibility factors (e.g., age, weight, previous exposure history, nutrition, and health). In addition, the degree of harm depends on one's total exposure to lead from all sources in the environment - air, soil, dust, food and water. Parents/guardians who are concerned that their child is displaying symptoms consistent with elevated levels of lead should contact their healthcare provider.

If you have any questions, please contact Larry D. Maynard at 217-987-6155

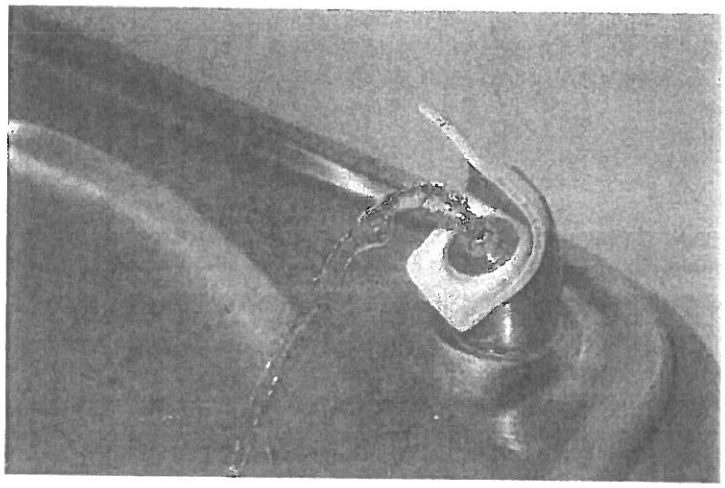
Sincerely,

Larry D. Maynard

Larry D. Maynard, Superintendent

Cc: Potomac CUSD 10 Board of Education

Water Quality Program



Lead in Drinking Water: Re-Test

Site:
Potomac Elementary School
7915 U.S. Route 136
Potomac, IL 61865

Local Education Agency:
Potomac C.U.S.D. 10

Completion Date:
January 11, 2018

IDEAL Number:
21152A1

IDEAL
ENVIRONMENTAL
ENGINEERING, INC.

* Report Received on Feb. 5, 2018

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 January 11, 2018, Ideal Environmental Engineering (IDEAL) re-tested one or more drinking water sources at Potomac Elementary School in Potomac, IL as requested by Potomac C.U.S.D. 10. IDEAL's scope of service was to provide re-testing and analysis for lead in drinking water in accordance with Illinois Public Act 099-0922 and to prepare and submit a report for the water testing to the LEA.

The re-testing was limited to water source(s) chosen by the LEA. IDEAL was not responsible for determining which sources were to be re-tested.

This report is presented based on the Act. IDEAL's service excluded determining whether a tested building is subject to the Act. IDEAL recommends following the Act's requirements for all buildings tested, even if a building does not meet the Act's definition of a school building.

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

Table 1.1: Prior Results Above 2 ppb

Table 1.1 shows the results of the water sources tested on **November 8, 2017**, which exceeded the minimum laboratory reporting limit of 2 ppb.

Table 1.1 Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
PE 07a	Kitchen Prep - Center	KS - Kitchen Sink	First Draw	2.13 ppb
PE 08a	Kitchen Prep - N. Wall - Sprayer	O - Other	First Draw	8.17 ppb
PE 09a	Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	First Draw	4.71 ppb
PE 10a	Kitchen Prep - N. Wall - Left	KS - Kitchen Sink	First Draw	45.9 ppb

Table 1.2: All Re-Test Results

Table 1.2 shows the results of the water sources re-tested on **January 11, 2018**.

Table 1.2 Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
RPE-07a	Kitchen Prep - Center	KS - Kitchen Sink	First Draw	3.43 ppb
RPE-07b	Kitchen Prep - Center	KS - Kitchen Sink	Flush	ND
RPE-08a	Kitchen Prep - N. Wall - Sprayer	O - Other	First Draw	40.2 ppb
RPE-08b	Kitchen Prep - N. Wall - Sprayer	O - Other	Flush	34.6 ppb
RPE-09a	Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	First Draw	104 ppb
RPE-09b	Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	Flush	9.36 ppb
RPE-10a	Kitchen Prep - N. Wall - Left	KS - Kitchen Sink	First Draw	3.33 ppb
RPE-10b	Kitchen Prep - N. Wall - Left	KS - Kitchen Sink	Flush	ND
ND = None Detected				

Notifications

At this time, the Public Act and IDPH have not established requirements for reporting of re-test results.

Mitigation

Mitigation Requirements:

IDPH requires mitigation when lead is found in a sample above the minimum reporting limit. 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:

- Mitigate all sources identified in Table 2.1, and retest after mitigation is complete. Results shown in Table 2.1 were found to contain lead at or above the 2 ppb minimum reporting limit.

Refer to IDPH's website for mitigation strategies:
www.dph.illinois.gov/sites/default/files/publications/school-lead-mitigation-strategies-050917.pdf

Table 2.1: Re-Test Results over 2 ppb

Table 2.1 Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
RPE-07a	Kitchen Prep - Center	KS - Kitchen Sink	First Draw	3.43 ppb
RPE-08a	Kitchen Prep - N. Wall - Sprayer	O - Other	First Draw	40.2 ppb
RPE-08b	Kitchen Prep - N. Wall - Sprayer	O - Other	Flush	34.6 ppb
RPE-09a	Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	First Draw	104 ppb
RPE-09b	Kitchen Prep - N. Wall - Middle	KS - Kitchen Sink	Flush	9.36 ppb
RPE-10a	Kitchen Prep - N. Wall - Left	KS - Kitchen Sink	First Draw	3.33 ppb

Water Quality Management Plan

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 A 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.

Prior to re-testing, the LEA was responsible for determining if water sources were ready, such as ensuring any mitigation processes were complete (i.e. fixture replacement and recommended flushing, aerator cleaning, etc.).

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.

Any recommendations provided by IDEAL are recommendations only. Employees of IDEAL are neither plumbers nor healthcare providers. No opinions or recommendations are stated about possible health effects of lead.

Sample results reflect the water at the time of the sampling event. IDEAL shall not be held liable if sources are re-sampled and found to contain lead.

Plumbing investigation, water quality management plan development, and in-depth consulting regarding mitigation are beyond the scope of this work. IDEAL may provide some mitigation consulting as a courtesy, however, the provision of such a courtesy shall not mean IDEAL is responsible for doing so.

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.

APPENDIX A

Prairie Analytical Systems, INCORPORATED

Tuesday, January 30, 2018

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

RE: Potomac Elementary School PAS WO: 18A0332

Prairie Analytical Systems, Inc. received 8 sample(s) on 1/18/2018 for the analyses presented in the following report.

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

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

Respectfully submitted,

Christina E. Pierce
Project Manager

Certifications: NELAP/NELAC - IL #100323

APPENDIX A

Prairie Analytical Systems, Inc. **Date:** 1/30/2018

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Potomac Elementary School
Client Sample ID: RPE-07a
Collection Date: 1/11/18 6:10
Lab Order: 18A0332
Lab ID: 18A0332-01
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	**3.43**	2.00		µg/L	1	1/23/18 8:20	1/23/18 17:09	EPA200.8 R5	JTC

Client Sample ID: RPE-07b
Collection Date: 1/11/18 6:10
Lab ID: 18A0332-02
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	1/23/18 8:20	1/23/18 17:11	EPA200.8 R5	JTC

Client Sample ID: RPE-08a
Collection Date: 1/11/18 6:12
Lab ID: 18A0332-03
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	**40.2**	2.00		µg/L	1	1/23/18 8:20	1/23/18 17:14	EPA200.8 R5	JTC

Client Sample ID: RPE-08b
Collection Date: 1/11/18 6:12
Lab ID: 18A0332-04
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	**34.6**	2.00		µg/L	1	1/23/18 8:20	1/23/18 17:17	EPA200.8 R5	JTC

Client Sample ID: RPE-09a
Collection Date: 1/11/18 6:14
Lab ID: 18A0332-05
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	**104**	2.00		µg/L	1	1/23/18 8:20	1/23/18 17:20	EPA200.8 R5	JTC

Client Sample ID: RPE-09b
Collection Date: 1/11/18 6:14
Lab ID: 18A0332-06
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	**9.36**	2.00		µg/L	1	1/23/18 8:20	1/23/18 17:23	EPA200.8 R5	JTC

Prairie Analytical Systems, Inc. **Date:** 1/30/2018

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Potomac Elementary School
Client Sample ID: RPE-10a
Collection Date: 1/11/18 6:17

Lab Order: 18A0332
Lab ID: 18A0332-07
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.33	2.00		µg/l	1	1/23/18 8:21	1/23/18 17:32	EPA200.8 R5	JTC

Client Sample ID: RPE-10b
Collection Date: 1/11/18 6:17

Lab ID: 18A0332-08
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	1/23/18 8:21	1/23/18 17:52	EPA200.8 R5	JTC

Prairie Analytical Systems, Inc. **Date:** 1/30/2018

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Potomac Elementary School **Lab Order:** 18A0332

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) 851-2504 - Facsimile (847) 458-9660
Central / Southern IL Contact - Phone (217) 414-7782 - Facsimile (217) 753-1152

Prairie Analytical Systems, INCORPORATED
www.prairieanalytical.com

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. (Job) / LEP	J#21152A1 / Potomac C.U.S.D. 10
Building Description	Potomac Elementary School
Address	7915 U.S. Route 136, Potomac, IL 61865
LSE ID	54-092-0100-26-2001
Central E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com

Sample ID	Sample Location Description	Sample Date	Sample Time	Sample Location Details: Fixture Type (DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, Oe/Other)	When Side by Side Fountains, etc. exist, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable	Source Type: (Single Source/Single Drain=SS; Double Source/Single Drain=DS; Double Source/Double Drain=DD)	250 ml Collected?	First Draw Sample = 1 Second Draw (30-Second Flush) = 2		Miscellaneous: Name / Model
RPE-01a	Kit Prep - Center	1/11/18	6:10a	KS		SS	Y	1		Moen
RPE-01b	- Center		6:10a	KS				2		⊥
RPE-08a	- N. Wall Sprayer		6:12a	KS				1		T-S Brass
RPE-08b	- N. Wall Sprayer		6:12a	KS				2		⊥
RPE-09a	- N. Wall Middle		6:14a	KS	M			1		Chicago
RPE-09b	- N. Wall Middle		6:14a	KS	M			2		⊥
RPE-10a	- N. Wall Left		6:17a	KS	L			1		Chicago
RPE-10b	- N. Wall Left		6:17a	KS	L			2		⊥

Matrix: Drinking Water | Preservative: None | Analysis/Method Requested: Lead

Relinquished By	Date	Time	Received By	Date		Method of Shipment
Collected By: Kyle Cotton	1/12/18	1:15pm	IDEAL Lead in Water Dept., Co-Pu	1/18/18		
IDEAL Lead in Water Dept., Co-Pu	1/18/18	2:45		1-18-18	1445	

Special Instructions:

Turnaround Time: Standard ☑ Rush ☐ | ☐ No | Temperature (°C): 14.1

Page 5 of 5

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

Revision 4
March 3, 2017

1 - 24617

APPENDIX A

APPENDIX A

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 D. South
Accreditation Officer
Environmental Laboratory Accreditation Program

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

APPENDIX A

State of Illinois
Environmental Protection Agency

Certificate No.: 004184

Awards the Certificate of Approval to:

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	Arsenic
Barium	Beryllium
Cadmium	Calcium
Chromium	Copper
Hardness (calc.)	Iron
Magnesium	Manganese
Nickel	Silver
Sodium	Zinc

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum	Antimony
Arsenic	Barium
Beryllium	Cadmium
Chromium	Copper
Lead	Manganese
Mercury	Molybdenum
Nickel	Selenium
Silver	Thallium
Zinc	

Method: USEPA245.2

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Chloride	Fluoride
Nitrate	Nitrite
Orthophosphate as P	Sulfate

FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,1,1-Trichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethene	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene	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

Matrix Type: Potable Water

Method: USEPA524.2R4.1

- 1,2-Dichloropropane
- Benzene
- Bromoform
- Chlorobenzene
- Chloroform
- Dichloromethane (Methylene chloride)
- Methyl tert-butyl ether (MTBE)
- Styrene
- Toluene
- trans-1,2-Dichloroethene
- Vinyl chloride
- 1,4-Dichlorobenzene
- Bromodichloromethane
- Carbon tetrachloride
- Chlorodibromomethane
- cis-1,2-Dichloroethene
- Ethylbenzene
- Naphthalene
- Tetrachloroethene
- Total trihalomethanes
- Trichloroethylene
- Xylenes (total)

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)

APPENDIX A

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: 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

APPENDIX A

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: Non Potable Water, Inorganic

Matrix Type: NPW/SCM

Method: SM5210B,2001

Matrix Type: NPW

Biochemical Oxygen Demand (BOD)

Matrix Type: NPW/SCM

Carbonaceous Biochemical Oxygen Demand (CBOD

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

Method: SM4500S2-F,2000

Sulfide

APPENDIX A

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Prairie Analytical Systems, Incorporated
1210 Capital Airport Drive
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FOT Name: Non Potable Water, Inorganic

Matrix Type: NPW/SCM

Vanadium

Method: USEPA200.8,1994

Matrix Type: NPW/SCM

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Tin
Titanium
Vanadium
Zinc

Method: USEPA245.2,1974

Matrix Type: NPW/SCM

Mercury

Method: USEPA300.0R2.1,1993

Matrix Type: NPW

Bromide
Chloride
Fluoride
Nitrate
Nitrate-Nitrite (as N)
Nitrite
Orthophosphate (as P)
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

Method: USEPA200.7,1994

Titanium
Zinc

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FOT Name: Solid and Chemical Materials, Inorganic

Matrix Type: NPW/SCM

Method: 6010B

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

Matrix Type: NPW/SCM

Method: 8260B

- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane (Dibromochloromethane)
- Chloroethane
- Chloroform
- Chloromethane
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Dichlorodifluoromethane
- Dichloromethane (Methylene chloride)
- Ethylbenzene
- Isopropylbenzene
- Methyl-t-butyl ether
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- p-Isopropyltoluene
- sec-Butylbenzene
- Styrene
- tert-Butylbenzene
- Tetrachloroethene
- Toluene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- Trichloroethene
- Trichlorofluoromethane
- Vinyl acetate
- Vinyl chloride
- Xylenes (Total)

Method: 8270C

Matrix Type: NPW/SCM

- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,2-Oxybis (1-chloropropane)
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene (2,4-DNT)
- 2,6-Dinitrotoluene (2,6-DNT)
- 2-Chloronaphthalene
- 2-Chlorophenol
- 2-Methylnaphthalene
- 2-Methylphenol (o-Cresol)
- 2-Nitroaniline
- 2-Nitrophenol
- 3,3' Dichlorobenzidine
- 3-Nitroaniline
- 4,6-Dinitro-2-methylphenol
- 4-Bromophenyl phenyl ether
- 4-Chloro-3-methylphenol
- 4-Chloroaniline
- 4-Chlorophenyl phenyl ether
- 4-Methylphenol (p-Cresol)
- 4-Nitroaniline
- 4-Nitrophenol
- Acenaphthene
- Acenaphthylene

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FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Method: 8270C

- 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
- Anthracene
- Benzo(a)pyrene
- Benzo(g,h,i)perlyene
- 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

Method: 8270C Mod_Farm Chemicals

Matrix Type: NPW/SCM

- Acetochlor
- Atrazine
- Chlorpyrifos
- EPTC
- Metribuzin
- Prometon
- Terbufos
- Alachlor
- Butylate
- Cyanazine
- Metolachlor
- Pendimethalin
- Simazine
- Trifluralin

Method: 8321B

Matrix Type: NPW/SCM

- 2,4,5-T
- 2,4-D
- Aldicarb (Temik)
- 2,4,5-TP (Silvex)
- 2,4-DB
- Carbofuran (Furaden)

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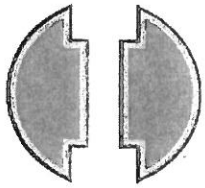
FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Dicamba	Dalapon
MCPA	Dinoseb
Oxamyl	MCPP

Method: 8321B



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