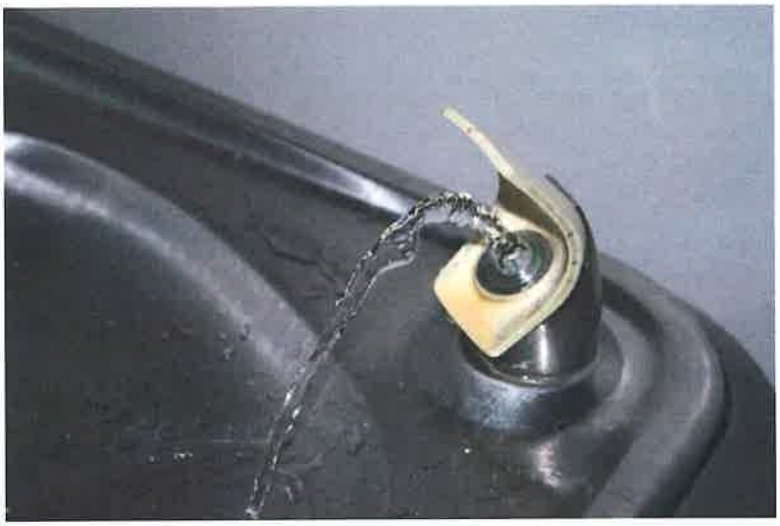

Lead Testing in Drinking Water

Site:
Baby Fold - Hammitt School
108 E. Willow Street
Normal 61761

Local Education Agency:
Baby Fold - Hammitt School

Completion Date:
September 12, 2017

IDEAL
ENVIRONMENTAL
ENGINEERING, INC.

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 by December 31, 2017, for buildings constructed prior to January 1, 1987, and by 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 September 12, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Baby Fold - Hammitt School in Normal at the request of the LEA. The water source locations were provided to IDEAL by the LEA.

Purpose of Sampling

Baby Fold - Hammitt School 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

44 water samples were collected from 22 sources. All results are shown in Table 1.1.

Table 1.1

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
HSS-1	Kitchen Hose Sprayer - Right	O - Other	First Draw	ND
HSF-1	Kitchen Hose Sprayer - Right	O - Other	Flush	ND
HSS-2	Kitchen Hose Sprayer - Left	O - Other	First Draw	ND
HSF-2	Kitchen Hose Sprayer - Left	O - Other	Flush	ND
HSS-3	Kitchen Hand Sink	KS - Kitchen Sink	First Draw	ND
HSF-3	Kitchen Hand Sink	KS - Kitchen Sink	Flush	ND
HSS-4	Hall By Room 102 - Right	DF - Drinking Fountain	First Draw	ND
HSF-4	Hall By Room 102 - Right	DF - Drinking Fountain	Flush	ND
HSS-5	Room 102	S - Sink	First Draw	ND
HSF-5	Room 102	S - Sink	Flush	ND
HSS-6	Room 115	S - Sink	First Draw	ND
HSF-6	Room 115	S - Sink	Flush	ND
HSS-7	Room 202	S - Sink	First Draw	ND
HSF-7	Room 202	S - Sink	Flush	ND
HSS-8	Room 113	S - Sink	First Draw	ND
HSF-8	Room 113	S - Sink	Flush	ND
HSS-9	Hall by Room 113	DF - Drinking Fountain	First Draw	ND
HSF-9	Hall by Room 113	DF - Drinking Fountain	Flush	ND
HSS-10	Hall By Lobby - Right	DF - Drinking Fountain	First Draw	ND
HSF-10	Hall By Lobby - Right	DF - Drinking Fountain	Flush	ND
HSS-11	Hall By Lobby - Left	DF - Drinking Fountain	First Draw	ND
HSF-11	Hall By Lobby - Left	DF - Drinking Fountain	Flush	ND
HSS-12	Room 133	S - Sink	First Draw	5.61 ppb
HSF-12	Room 133	S - Sink	Flush	ND
HSS-13	Room 129	S - Sink	First Draw	14.0 ppb
HSF-13	Room 129	S - Sink	Flush	2.21 ppb
HSS-14	Room 123	S - Sink	First Draw	1090 ppb
HSF-14	Room 123	S - Sink	Flush	7.94 ppb
HSS-15	Hall By Room 125	DF - Drinking Fountain	First Draw	ND
HSF-15	Hall By Room 125	DF - Drinking Fountain	Flush	ND

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
HSS-16	Room 125	S - Sink	First Draw	3.11 ppb
HSF-16	Room 125	S - Sink	Flush	ND
HSS-17	Kitchenette	KS - Kitchen Sink	First Draw	ND
HSF-17	Kitchenette	KS - Kitchen Sink	Flush	ND
HSS-18	Hall by Elevator	DF - Drinking Fountain	First Draw	ND
HSF-18	Hall by Elevator	DF - Drinking Fountain	Flush	ND
HSS-19	Room 201	S - Sink	First Draw	3.78 ppb
HSF-19	Room 201	S - Sink	Flush	ND
HSS-20	Room 224	S - Sink	First Draw	13.0 ppb
HSF-20	Room 224	S - Sink	Flush	ND
HSS-21	Room 214	S - Sink	First Draw	4.38 ppb
HSF-21	Room 214	S - Sink	Flush	ND
HSS-22	Room 220	S - Sink	First Draw	4.78 ppb
HSF-22	Room 220	S - Sink	Flush	ND

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.
- The sample results as identified below in Table 1.2 exceed 5.00 ppb. Provide individual written or electronic notification to parents and legal guardians of all enrolled students the sample results in Table 1.2. Include in the notification 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

  Refer to Appendix B for a sample notification letter for results exceeding 5 ppb.

Table 1.2 – Results over 5.00 ppb

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
HSS-12	Room 133	S - Sink	First Draw	5.61 ppb
HSS-13	Room 129	S - Sink	First Draw	14.0 ppb
HSS-14	Room 123	S - Sink	First Draw	1090 ppb
HSF-14	Room 123	S - Sink	Flush	7.94 ppb
HSS-20	Room 224	S - Sink	First Draw	13.0 ppb

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 detection 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 no lead is present.

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

- Samples shown in Table 1.3 were found to contain lead at or above the 2.00 ppb detection limit. Mitigate all sources identified in Table 1.3 and retest after mitigation is complete.

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

Table 1.3 – Results over 2.00 ppb

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
HSS-12	Room 133	S - Sink	First Draw	5.61 ppb
HSS-13	Room 129	S - Sink	First Draw	14.0 ppb
HSF-13	Room 129	S - Sink	Flush	2.21 ppb
HSS-14	Room 123	S - Sink	First Draw	1090 ppb
HSF-14	Room 123	S - Sink	Flush	7.94 ppb
HSS-16	Room 125	S - Sink	First Draw	3.11 ppb
HSS-19	Room 201	S - Sink	First Draw	3.78 ppb
HSS-20	Room 224	S - Sink	First Draw	13.0 ppb
HSS-21	Room 214	S - Sink	First Draw	4.38 ppb
HSS-22	Room 220	S - Sink	First Draw	4.78 ppb

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.

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.

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 receipt of this report.

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.

APPENDIX A

Paul Weber

From: Paul Weber
Sent: Tuesday, October 17, 2017 1:42 PM
To: 'dph.leadh2O@illinois.gov'
Subject: Lead in Water Results - Baby Fold-Hammitt School
Attachments: J#21181 Baby Fold - Hammit School Lab Analysis Results.pdf; J#21181 Baby Fold - Hammitt School IDPH Data Report.xlsx; Prairie Analyitical Accredidation.pdf

On behalf of Baby Fold – Hammitt School, lead-in-water laboratory results and laboratory accreditation are attached for the following school(s):

Baby Fold – Hammitt 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

Three-year reinspection reports:
A reinspection report shall not be used to satisfy the requirement for an inspection prior to renovation. NESHAP asbestos regulations require that all renovation areas be inspected for suspect asbestos containing materials by an IDPH-licensed asbestos inspector. All suspect asbestos containing materials in a renovation area must be sampled prior to disturbance. Review of a three-year reinspection report does not meet the requirements for an asbestos inspection prior to building renovation (or demolition) and shall not be used for such purpose.

APPENDIX B

Sample Notification Letter

<DATE>

Re: Baby Fold - Hammitt School – Lead in Drinking Water 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. Please note, this level set by the state is significantly lower than the Federal Government threshold of 15 ppb for public water systems and 20 ppb recommended by the US EPA for school outlets.

On September 12, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Baby Fold - Hammitt School in Normal.

This building was 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.

The law requires us to provide the results to all parents and legal guardians of enrolled students. Please go to our website <insert link> to view all the sampling results.

The following is notification for sample results found to contain lead levels exceeding 5 ppb.

Sample Location Description	Fixture Type	Concentration
Room 133	S - Sink	5.61 ppb
Room 129	S - Sink	14.0 ppb
Room 123	S - Sink	1090 ppb
Room 123	S - Sink	7.94 ppb
Room 224	S - Sink	13.0 ppb

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. IDPH set a minimum detection limit of 2 ppb. Please note this mitigation requirement set by the state is significantly more stringent than the 20 ppb 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 <school personnel name & phone number>.

Sincerely,

<School Personnel>

APPENDIX C

Prairie Analytical Systems, INCORPORATED

Friday, October 13, 2017

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

RE: Baby Fold - Hammitt School PAS WO: 1710412

Prairie Analytical Systems, Inc. received 44 sample(s) on 9/18/2017 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

Prairie Analytical Systems, Inc. Date: 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412

Client Sample ID: HSS-1
Lab ID: 1710412-01
Collection Date: 9/12/17 5:42
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	10/11/17 10:39	10/11/17 19:33	EPA200.8	LAH

Client Sample ID: HSF-1
Lab ID: 1710412-02
Collection Date: 9/12/17 5:43
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	10/11/17 10:39	10/11/17 19:36	EPA200.8	LAH

Client Sample ID: HSS-2
Lab ID: 1710412-03
Collection Date: 9/12/17 5:44
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	10/11/17 10:39	10/11/17 19:47	EPA200.8	LAH

Client Sample ID: HSF-2
Lab ID: 1710412-04
Collection Date: 9/12/17 5:45
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	10/11/17 10:39	10/11/17 19:50	EPA200.8	LAH

Client Sample ID: HSS-3
Lab ID: 1710412-05
Collection Date: 9/12/17 5:47
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	10/11/17 10:39	10/11/17 19:53	EPA200.8	LAH

Client Sample ID: HSF-3
Lab ID: 1710412-06
Collection Date: 9/12/17 5:48
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	10/11/17 10:39	10/11/17 19:56	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412

Client Sample ID: HSS-4
Lab ID: 1710412-07
Collection Date: 9/12/17 5:50
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	10/11/17 10:39	10/11/17 19:59	EPA200.8	LAH

Client Sample ID: HSF-4
Lab ID: 1710412-08
Collection Date: 9/12/17 5:51
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	10/11/17 10:39	10/11/17 20:01	EPA200.8	LAH

Client Sample ID: HSS-5
Lab ID: 1710412-09
Collection Date: 9/12/17 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	10/11/17 10:39	10/11/17 20:13	EPA200.8	LAH

Client Sample ID: HSF-5
Lab ID: 1710412-10
Collection Date: 9/12/17 5:54
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	10/11/17 10:39	10/11/17 20:16	EPA200.8	LAH

Client Sample ID: HSS-6
Lab ID: 1710412-11
Collection Date: 9/12/17 5:55
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	10/11/17 10:39	10/11/17 20:27	EPA200.8	LAH

Client Sample ID: HSF-6
Lab ID: 1710412-12
Collection Date: 9/12/17 5:56
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	10/11/17 10:39	10/11/17 20:30	EPA200.8	LAH

Prairie Analytical Systems, Inc. Date: 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412
Client Sample ID: HSS-7
Lab ID: 1710412-13
Collection Date: 9/12/17 5:58
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	10/11/17 10:39	10/11/17 20:33	EPA200.8	LAH

Client Sample ID: HSF-7
Lab ID: 1710412-14
Collection Date: 9/12/17 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	10/11/17 10:39	10/11/17 20:36	EPA200.8	LAH

Client Sample ID: HSS-8
Lab ID: 1710412-15
Collection Date: 9/12/17 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	10/11/17 10:39	10/11/17 20:39	EPA200.8	LAH

Client Sample ID: HSF-8
Lab ID: 1710412-16
Collection Date: 9/12/17 6:01
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	10/11/17 10:39	10/11/17 20:42	EPA200.8	LAH

Client Sample ID: HSS-9
Lab ID: 1710412-17
Collection Date: 9/12/17 6:03
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	10/11/17 10:39	10/11/17 20:44	EPA200.8	LAH

Client Sample ID: HSF-9
Lab ID: 1710412-18
Collection Date: 9/12/17 6:04
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	10/11/17 10:40	10/11/17 20:53	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Client Sample ID: HSS-10
Collection Date: 9/12/17 6:11
Lab Order: 1710412
Lab ID: 1710412-19
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	10/11/17 10:40	10/11/17 21:10	EPA200.8	LAH

Client Sample ID: HSF-10
Collection Date: 9/12/17 6:12
Lab ID: 1710412-20
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	10/11/17 10:40	10/11/17 21:13	EPA200.8	LAH

Client Sample ID: HSS-11
Collection Date: 9/12/17 6:13
Lab ID: 1710412-21
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	10/11/17 10:40	10/11/17 21:16	EPA200.8	LAH

Client Sample ID: HSF-11
Collection Date: 9/12/17 6:14
Lab ID: 1710412-22
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	10/11/17 10:40	10/11/17 21:19	EPA200.8	LAH

Client Sample ID: HSS-12
Collection Date: 9/12/17 6:15
Lab ID: 1710412-23
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	5.61	2.00		µg/L	1	10/11/17 10:40	10/11/17 21:22	EPA200.8	LAH

Client Sample ID: HSF-12
Collection Date: 9/12/17 6:16
Lab ID: 1710412-24
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	10/11/17 10:40	10/11/17 21:25	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412
Client Sample ID: HSS-13
Lab ID: 1710412-25
Collection Date: 9/12/17 6:18
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	14.0	2.00		µg/L	1	10/11/17 10:40	10/11/17 21:28	EPA200.8	LAH

Client Sample ID: HSF-13
Lab ID: 1710412-26
Collection Date: 9/12/17 6:19
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	2.21	2.00		µg/L	1	10/11/17 10:40	10/11/17 21:30	EPA200.8	LAH

Client Sample ID: HSS-14
Lab ID: 1710412-27
Collection Date: 9/12/17 6:21
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	1090	20.0		µg/L	10	10/11/17 10:40	10/12/17 9:42	EPA200.8	JTC

Client Sample ID: HSF-14
Lab ID: 1710412-28
Collection Date: 9/12/17 6:22
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	7.94	2.00		µg/L	1	10/11/17 10:40	10/11/17 21:45	EPA200.8	LAH

Client Sample ID: HSS-15
Lab ID: 1710412-29
Collection Date: 9/12/17 6:23
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	10/11/17 10:40	10/11/17 21:53	EPA200.8	LAH

Client Sample ID: HSF-15
Lab ID: 1710412-30
Collection Date: 9/12/17 6:24
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	10/11/17 10:40	10/11/17 21:56	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Buby Fold - Hammitt School
Lab Order: 1710412
Client Sample ID: HSS-16
Lab ID: 1710412-31
Collection Date: 9/12/17 6:26
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.11	2.00		µg/L	1	10/11/17 10:40	10/11/17 21:59	EPA200.8	LAH

Client Sample ID: HSF-16
Lab ID: 1710412-32
Collection Date: 9/12/17 6:27
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	10/11/17 10:40	10/11/17 22:05	EPA200.8	LAH

Client Sample ID: HSS-17
Lab ID: 1710412-33
Collection Date: 9/12/17 6:29
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	10/11/17 10:40	10/11/17 22:08	EPA200.8	LAH

Client Sample ID: HSF-17
Lab ID: 1710412-34
Collection Date: 9/12/17 6:30
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	10/11/17 10:40	10/11/17 22:11	EPA200.8	LAH

Client Sample ID: HSS-18
Lab ID: 1710412-35
Collection Date: 9/12/17 6:33
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	10/11/17 10:40	10/11/17 22:22	EPA200.8	LAH

Client Sample ID: HSF-18
Lab ID: 1710412-36
Collection Date: 9/12/17 6:34
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	10/11/17 10:40	10/11/17 22:25	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412

Client Sample ID: HSS-19
Lab ID: 1710412-37
Collection Date: 9/12/17 6:36
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.78	2.00		µg/L	1	10/11/17 10:40	10/11/17 22:28	EPA200.8	LAH

Client Sample ID: HSF-19
Lab ID: 1710412-38
Collection Date: 9/12/17 6:37
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	10/11/17 10:41	10/11/17 22:36	EPA200.8	LAH

Client Sample ID: HSS-20
Lab ID: 1710412-39
Collection Date: 9/12/17 6:40
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	13.0	2.00		µg/L	1	10/11/17 10:41	10/11/17 22:45	EPA200.8	LAH

Client Sample ID: HSF-20
Lab ID: 1710412-40
Collection Date: 9/12/17 6:41
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	10/11/17 10:41	10/11/17 22:48	EPA200.8	LAH

Client Sample ID: HSS-21
Lab ID: 1710412-41
Collection Date: 9/12/17 6:42
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	4.38	2.00		µg/L	1	10/11/17 10:41	10/11/17 22:59	EPA200.8	LAH

Client Sample ID: HSF-21
Lab ID: 1710412-42
Collection Date: 9/12/17 6:43
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	10/11/17 10:41	10/11/17 23:02	EPA200.8	LAH

Prairie Analytical Systems, Inc. Date: 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School
Lab Order: 1710412
Client Sample ID: HSS-22
Lab ID: 1710412-43
Collection Date: 9/12/17 6:46
Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	4.78	2.00		µg/L	1	10/11/17 10:41	10/11/17 23:05	EPA200.8	LAH

Client Sample ID: HSF-22
Lab ID: 1710412-44
Collection Date: 9/12/17 6:47
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	10/11/17 10:41	10/11/17 23:08	EPA200.8	LAH

Prairie Analytical Systems, Inc. **Date:** 10/13/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
Project: Baby Fold - Hammitt School **Lab Order:** 1710412

Notes and Definitions

* NELAC certified compound.

U Analyte not detected (i.e. less than RL or MDL).

APPENDIX C

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 - 8114 Virginia Rd, Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680
Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152

Prairie Analytical Systems, Inc.
www.prairieanalytical.com

LAB # 22561L

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. (J#) / LEA	J#21181 / Baby Fold
Building Description	Baby Fold - Hammitt School
Address	108 E. Willow Street, Normal, IL 61761
ISBE ID	17-064-023S-07-0000
Contact/E-Mail / Address	Central Office Staff / leadinwater@idealenvironmental.com

Miscellaneous: # of sources / # of samples: 22/44; Date Water Last Used: 9-11-17; Time Water Last Used: 9pm

Sample ID	Sample Location Description	Sample Date	Sample Time	Building Year	Fixture Type (DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=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		Make / Model
HSS-1	Kitchen Hose Sprayer	9-12-17	5:42A	1950	O	R	DD	Y	1		T+S
HSF-1	↓	↓	5:43	↓	O	R	DD	Y	2		↓
HSS-2	↓	↓	5:44	↓	O	L	DD	Y	1		↓
HSF-2	↓	↓	5:45	↓	O	L	DD	Y	2		↓
HSS-3	Kitchen Hand Sink	↓	5:47	↓	S		SS	Y	1		Unknown
HSF-3	↓	↓	5:48	↓	S		SS	Y	2		↓
HSS-4	Fountain by Rm 102	↓	5:50	↓	DF	R	DD	Y	1		Oasis
HSF-4	↓	↓	5:51	↓	DF	R	DD	Y	2		↓
HSS-5	Room 102 Sink	↓	5:53	↓	S		SS	Y	1		Unknown
HSF-5	↓	↓	5:54	↓	S		SS	Y	2		↓
HSS-6	Room 115 Sink	↓	5:55	↓	S		SS	Y	1		↓
HSF-6	↓	↓	5:56	↓	S		SS	Y	2		↓

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

Relinquished By	Date	Time	Received By	Date	Time	Method of Shipment
Collected By: Pete Altier	9-12-17	8Am	IDEAL Lead in Water Dept. [signature]	9/12/17		
IDEAL Lead in Water Dept. [signature]	9/18	10:30	[signature]	9.18.17		HAND
			[signature]	9/18/17	1240	HAND

Special Instructions:

Turnaround Time: Standard ■ Rush ☐

Temperature (°C): 19.C

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

Page 1 of 4

Revision 4
March 3, 2017

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8480 - Phone (217) 753-1149 - Facsimile (217) 753-1152
Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2904 - Facsimile (847) 458-9660
Central / Southern IL Contact - Phone (217) 414-7782 - Facsimile (217) 753-1152

Prairie Analytical Systems, Inc.
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. (J#) / LEA	J#21181 / Baby Fold
Building Description	Baby Fold - Hammitt School
Address	108 E. Willow Street, Normal, IL 61761
ISBE ID	17-064-023S-07-0000
Contact/E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com

Sample ID	Sample Location Description	Sample Date	Sample Time	Sample Location Details: Building Year	Fixture Type (DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=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: Make / Model
											# of sources / # of samples: 22/44
											Date Water Last Used: 9-11-17
											Time Water Last Used: 9 PM
HSS-7	ROOM 202 SINK	9-12-17	5:58A	1950	S		SS	Y	1		UNKNOWN
HSF-7	〃	〃	5:59	〃	S		SS	Y	2		〃
HSS-8	ROOM 113 SINK	〃	6:00	〃	S		SS	Y	1		〃
HSF-8	〃	〃	6:01	〃	S		SS	Y	2		〃
HSS-9	HALL BY RM 113	〃	6:03	1982	DF		SS	Y	1		ELKAY
HSF-9	〃	〃	6:04	〃	DF		SS	Y	2		〃
HSS-10	FOUNTAIN BY LOBBY	〃	6:11	〃	DF	R	DD	Y	1		Halsey Taylor
HSF-10	〃	〃	6:12	〃	DF	R	DD	Y	2		〃
HSS-11	FOUNTAIN BY LOBBY	〃	6:13	〃	DF	L	DD	Y	1		〃
HSF-11	〃	〃	6:14	〃	DF	L	DD	Y	2		〃
HSS-12	ROOM 133 SINK	〃	6:15	〃	S		SS	Y	1		UNKNOWN
HSF-12	〃	〃	6:16	〃	S		SS	Y	2		〃

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

Relinquished By	Date	Time	Received By	Date		Method of Shipment
Collected By Pete Altier	9-12-17	8AM	IDEAL Lead in Water Dept.			
IDEAL Lead in Water Dept.			JH			

Special Instructions:

Turnaround Time: Standard ■ Rush ☐ | ☐ No

Temperature (°C): 19.8

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

Revision 4
March 3, 2017

APPENDIX C

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8480 - Phone (217) 753-1148 - Facsimile (217) 753-1152
Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 851-2604 - Facsimile (847) 458-8630
Central / Southern IL Contact - Phone (217) 414-7782 - Facsimile (217) 753-1152

Prairie Analytical Systems, INCORP
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. (J#) / LEA	J#21181 / Baby Fold
Building Description	Baby Fold - Hammitt School
Address	108 E. Willow Street, Normal, IL 61761
ISBE ID	17-064-023S-07-0000
Contact/E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com

Sample ID	Sample Location Description	Sample Date	Sample Time	Sample Location Details: Building Year	Fixture Type DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=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: Make / Model
HSS-13	Room 129 sink	9-12-17	6:18A	1982	S		SS	Y	1		UNKNOWN
HSF-13	"	"	6:19	"	S		SS	Y	2		"
HSS-14	Room 123 sink	"	6:21	"	S		SS	Y	1		"
HSF-14	"	"	6:22	"	S		SS	Y	2		"
HSS-15	Fountain by Room 125	"	6:23	"	DF		SS	Y	1		Elkay
HSF-15	"	"	6:24	"	DF		SS	Y	2		"
HSS-16	Room 125 sink	"	6:26	"	S		SS	Y	1		UNKNOWN
HSF-16	"	"	6:27	"	S		SS	Y	2		"
HSS-17	Kitchenette sink	"	6:29	"	S		SS	Y	1		"
HSF-17	"	"	6:30	"	S		SS	Y	2		"
HSS-18	Hall by elevator	"	6:33	"	DF		SS	Y	1		Halsey Taylor
HSF-18	"	"	6:34	"	DF		SS	Y	2		"

Miscellaneous: # of sources / # of samples: 22/44; Date Water Last Used: 9-11-17; Time Water Last Used: 9 PM

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

Relinquished By:	Date	Time	Received By:	Date		Method of Shipment
Collected By: Pete Altier	9-12-17	9AM	IDEAL Lead in Water Dept.			
IDEAL Lead in Water Dept.			SH			

Special Instructions:

Turnaround Time: Standard ■ Rush □

□ No

Temperature (°C): 19.8

Copies: 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 60156 - Phone (847) 851-2804 - Facsimile (847) 458-9660
Central / Southern IL Contact - Phone (217) 414-7782 - Facsimile (217) 753-1152

Prairie Analytical Systems, INC.
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. (J#) / LEA	J#21181 / Baby Fold
Building Description	Baby Fold - Hammitt School
Address	108 E. Willow Street, Normal, IL 61761
ISBE ID	17-064-023S-07-0000
Contact/E-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com

Sample ID	Sample Location Description	Sample Date	Sample Time	Sample Location Details: Building Year	Fixture Type (DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=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: Make / Model
HSS-19	Room 201 sink	9-12-17	6:36A	1982	S	S	SS	Y	1		UNKNOWN
HSF-19	"	"	6:37	"	S		SS	Y	2		"
HSS-20	Room 224 sink	"	6:40	"	S		SS	Y	1		"
HSF-20	"	"	6:41	"	S		SS	Y	2		"
HSS-21	Room 214 sink	"	6:42	"	S		SS	Y	1		"
HSF-21	"	"	6:43	"	S		SS	Y	2		"
HSS-22	Room 220 sink	"	6:46	"	S		SS	Y	1		"
HSF-22	"	"	6:47	"	S		SS	Y	2		"

Miscellaneous: # of sources / # of samples: 22/44; Date Water Last Used: 9-11-17; Time Water Last Used: 9 PM

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

Relinquished By	Date	Time	Received By	Date		Method of Shipment
Collected By: Pete Attick	9-12-17	8AM	IDEAL Lead in Water Dept.,			
IDEAL Lead in Water Dept.,			SH			

Special Instructions:

Turnaround Time: Standard ■ Rush ☐ | ☐ No | Temperature (°C): 19.8

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

Revision 4
March 3, 2017

APPENDIX C

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

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

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

Awards the Certificate of Approval

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

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

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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 (CBOI

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

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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	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

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FOT Name: Non Potable Water, Inorganic

Matrix Type: NPW

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

Method: USEPA350.1R2.0,1993

Ammonia

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

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

Method: 8081A

Matrix Type: NPW/SCM

alpha-Chlordane	alpha-BHC
Chlordane - not otherwise specified	beta-BHC
Dieldrin	delta-BHC
Endosulfan II	Endosulfan I
Endrin	Endosulfan sulfate
Endrin ketone	Endrin aldehyde
gamma-Chlordane	gamma-BHC (Lindane)
Heptachlor epoxide	Heptachlor
Toxaphene	Methoxychlor

Method: 8082

Matrix Type: NPW/SCM

PCB-1016	PCB-1221
PCB-1232	PCB-1242
PCB-1248	PCB-1254
PCB-1260	

Method: 8260B

Matrix Type: NPW/SCM

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethene
1,1-Dichloropropene	1,2,3-Trichlorobenzene
1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
1,2-Dichloroethane	1,2-Dichloropropane
1,3,5-Trimethylbenzene	1,3-Dichlorobenzene
1,3-Dichloropropane	1,4-Dichlorobenzene
2,2-Dichloropropane	2-Butanone (Methyl ethyl ketone, MEK)
2-Chloroethyl vinyl ether	2-Chlorotoluene
2-Hexanone	4-Chlorotoluene
4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBI	Acetone
Acetonitrile	Acrolein (Propenal)
Acrylonitrile	Benzene

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FOT Name: Solid and Chemical Materials, Organic

Method: 8260B

Matrix Type: NPW/SCM

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

Method: 8270C

Matrix Type: NPW/SCM

Benzo(a)anthracene	Anthracene
Benzo(b)fluoranthene	Benzo(a)pyrene
Benzo(k)fluoranthene	Benzo(g,h,i)perlyene
Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane
Butyl benzyl phthalate	Bis(2-ethylhexyl) phthalate
Carbofuran (Furaden)	Carbazole
Chrysene	Chlorobenzilate
Dibenzofuran	Dibenz(a,h)anthracene
Dimethyl phthalate	Diethyl phthalate
Di-n-octyl phthalate	Di-n-butyl phthalate
Fluorene	Fluoranthene
Hexachlorobutadiene	Hexachlorobenzene
Hexachloroethane	Hexachlorocyclopentadiene
Isophorone	Indeno(1,2,3-cd) pyrene
Nitrobenzene	Naphthalene
N-Nitrosodi-n-propylamine	N-Nitrosodimethylamine
o-Cresol (2-Methylphenol)	N-Nitrosodiphenylamine
Pentachlorophenol	p-Cresol (4-Methylphenol)
Phenol	Phenanthrene
	Pyrene

Method: 8270C Mod_Farm Chemicals

Matrix Type: NPW/SCM

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

Method: 8321B

Matrix Type: NPW/SCM

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

State of Illinois
Environmental Protection Agency

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FOT Name: Solid and Chemical Materials, Organic

Method: 8321B

Matrix Type: NPW/SCM

Dalapon

Dicamba

Dinoseb

MCPA

MCPP

Oxamyl

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