



## Lead Testing in Drinking Water

Site:

Pleasant Hill Elementary School  
502 E. Quincy  
Pleasant Hill, IL 62366

Local Education Agency:  
Pleasant Hill C.U.S.D. 3

Completion Date:  
November 7, 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 5<sup>th</sup> 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 7, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Pleasant Hill Elementary School in Pleasant Hill, IL at the request of the LEA. The water source locations were provided to IDEAL by the LEA.

### **Purpose of Sampling**

Pleasant Hill Elementary School is a facility built prior to January 1, 2000, where pre-K through 5<sup>th</sup> 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**

36 water samples were collected from 18 sources. All results are shown in Table 1.1.

**Table 1.1**

<b>Sample ID</b>	<b>Sample Location Description</b>	<b>Fixture Type</b>	<b>Sample Type</b>	<b>Concentration</b>
PE 1	Nurse Room - Restroom	S - Sink	First Draw	ND
PE 2	Nurse Room - Restroom	S - Sink	Flush	ND
PE 3	MPR Fountain	DF - Drinking Fountain	First Draw	ND
PE 4	MPR Fountain	DF - Drinking Fountain	Flush	ND
PE 5	Old Kitchen	S - Sink	First Draw	3.42 ppb
PE 6	Old Kitchen	S - Sink	Flush	ND
PE 7	Building D by Ms. Davis's Room	DF - Drinking Fountain	First Draw	3.93 ppb
PE 8	Building D by Ms. Davis's Room	DF - Drinking Fountain	Flush	13.3 ppb
PE 9	Building D Commons	S - Sink	First Draw	3.56 ppb
PE 10	Building D Commons	S - Sink	Flush	ND
PE 11	Building D by Ms. Lowe's Room	DF - Drinking Fountain	First Draw	ND
PE 12	Building D by Ms. Lowe's Room	DF - Drinking Fountain	Flush	3.08 ppb
PE 13	Building C by Mr. Lowe's Room	DF - Drinking Fountain	First Draw	3.29 ppb
PE 14	Building C by Mr. Lowe's Room	DF - Drinking Fountain	Flush	7.66 ppb
PE 15	Building C Commons	S - Sink	First Draw	5.93 ppb
PE 16	Building C Commons	S - Sink	Flush	ND
PE 17	Building C by Ms. Hannel's Room	DF - Drinking Fountain	First Draw	5.07 ppb
PE 18	Building C by Ms. Hannel's Room	DF - Drinking Fountain	Flush	6.53 ppb
PE 19	Building B by Ms. Zarello's Room	DF - Drinking Fountain	First Draw	ND
PE 20	Building B by Ms. Zarello's Room	DF - Drinking Fountain	Flush	ND
PE 21	Building B Commons	S - Sink	First Draw	5.77 ppb
PE 22	Building B Commons	S - Sink	Flush	ND
PE 23	Building B by Ms. Kamp's Room	DF - Drinking Fountain	First Draw	ND
PE 24	Building B by Ms. Kamp's Room	DF - Drinking Fountain	Flush	3.40 ppb
PE 25	Building A by Ms. Schumann's Room	DF - Drinking Fountain	First Draw	2.17 ppb
PE 26	Building A by Ms. Schumann's Room	DF - Drinking Fountain	Flush	3.24 ppb
PE 27	Building A Commons	S - Sink	First Draw	9.41 ppb
PE 28	Building A Commons	S - Sink	Flush	ND
PE 29	Building A by Ms. Smith's Room	DF - Drinking Fountain	First Draw	2.13 ppb
PE 30	Building A by Ms. Smith's Room	DF - Drinking Fountain	Flush	3.87 ppb



Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
PE 31	Building E by Ms. Wilson's Room	DF - Drinking Fountain	First Draw	2.29 ppb
PE 32	Building E by Ms. Wilson's Room	DF - Drinking Fountain	Flush	3.45 ppb
PE 33	Building E Commons	S - Sink	First Draw	3.04 ppb
PE 34	Building E Commons	S - Sink	Flush	ND
PE 35	Building E by Ms. Penstone's Room	DF - Drinking Fountain	First Draw	4.79 ppb
PE 36	Building E by Ms. Penstone's Room	DF - Drinking Fountain	Flush	5.64 ppb
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](http://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](mailto: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 results identified in Table 1.2 exceed 5 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](http://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 ppb**

<b>Sample ID</b>	<b>Sample Location Description</b>	<b>Fixture Type</b>	<b>Sample Type</b>	<b>Concentration</b>
PE 8	Building D by Ms. Davis's Room	DF - Drinking Fountain	Flush	13.3 ppb
PE 14	Building C by Mr. Lowe's Room	DF - Drinking Fountain	Flush	7.66 ppb
PE 15	Building C Commons	S - Sink	First Draw	5.93 ppb
PE 17	Building C by Ms. Hannel's Room	DF - Drinking Fountain	First Draw	5.07 ppb
PE 18	Building C by Ms. Hannel's Room	DF - Drinking Fountain	Flush	6.53 ppb
PE 21	Building B Commons	S - Sink	First Draw	5.77 ppb
PE 27	Building A Commons	S - Sink	First Draw	9.41 ppb
PE 36	Building E by Ms. Penstone's Room	DF - Drinking Fountain	Flush	5.64 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 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:

- Results shown in Table 1.3 were found to contain lead at or above the 2 ppb minimum reporting 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](http://www.dph.illinois.gov/sites/default/files/publications/school-lead-mitigation-strategies-050917.pdf)

**Table 1.3 – Results over 2 ppb**

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
PE 5	Old Kitchen	S - Sink	First Draw	3.42 ppb
PE 7	Building D by Ms. Davis's Room	DF - Drinking Fountain	First Draw	3.93 ppb
PE 8	Building D by Ms. Davis's Room	DF - Drinking Fountain	Flush	13.3 ppb
PE 9	Building D Commons	S - Sink	First Draw	3.56 ppb
PE 12	Building D by Ms. Lowe's Room	DF - Drinking Fountain	Flush	3.08 ppb
PE 13	Building C by Mr. Lowe's Room	DF - Drinking Fountain	First Draw	3.29 ppb
PE 14	Building C by Mr. Lowe's Room	DF - Drinking Fountain	Flush	7.66 ppb
PE 15	Building C Commons	S - Sink	First Draw	5.93 ppb
PE 17	Building C by Ms. Hannel's Room	DF - Drinking Fountain	First Draw	5.07 ppb
PE 18	Building C by Ms. Hannel's Room	DF - Drinking Fountain	Flush	6.53 ppb
PE 21	Building B Commons	S - Sink	First Draw	5.77 ppb
PE 24	Building B by Ms. Kamp's Room	DF - Drinking Fountain	Flush	3.40 ppb
PE 25	Building A by Ms. Schumann's Room	DF - Drinking Fountain	First Draw	2.17 ppb
PE 26	Building A by Ms. Schumann's Room	DF - Drinking Fountain	Flush	3.24 ppb
PE 27	Building A Commons	S - Sink	First Draw	9.41 ppb
PE 29	Building A by Ms. Smith's Room	DF - Drinking Fountain	First Draw	2.13 ppb
PE 30	Building A by Ms. Smith's Room	DF - Drinking Fountain	Flush	3.87 ppb



Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
PE 31	Building E by Ms. Wilson's Room	DF - Drinking Fountain	First Draw	2.29 ppb
PE 32	Building E by Ms. Wilson's Room	DF - Drinking Fountain	Flush	3.45 ppb
PE 33	Building E Commons	S - Sink	First Draw	3.04 ppb
PE 35	Building E by Ms. Penstone's Room	DF - Drinking Fountain	First Draw	4.79 ppb
PE 36	Building E by Ms. Penstone's Room	DF - Drinking Fountain	Flush	5.64 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.

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](http://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.





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**Paul Weber**

**From:** Paul Weber  
**Sent:** Thursday, December 21, 2017 12:45 PM  
**To:** 'dph.leadh2O@illinois.gov'  
**Subject:** Lead in Water Results - Pleasant Hill CUSD 3  
**Attachments:** J#21260A PH Elementary Lab Analysis.pdf; J#21260A PH Elementary IDPH Data.xlsx

On behalf of Pleasant Hill C.U.S.D. 3, lead-in-water laboratory results and laboratory accreditation are attached for the following school(s):

**Pleasant Hill Elementary 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](mailto:pweber@idealenvironmental.com)

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## Sample Notification Letter

&lt;DATE&gt;

**Re: Pleasant Hill Elementary 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.

On November 7, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Pleasant Hill Elementary School in Pleasant Hill, IL.

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

Please go to our website <insert link> to view all the sample results.

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

Sample Location Description	Fixture Type	Sample Type	Concentration
Building D by Ms. Davis's Room	DF - Drinking Fountain	Flush	13.3 ppb
Building C by Mr. Lowe's Room	DF - Drinking Fountain	Flush	7.66 ppb
Building C Commons	S - Sink	First Draw	5.93 ppb
Building C by Ms. Hannel's Room	DF - Drinking Fountain	First Draw	5.07 ppb
Building C by Ms. Hannel's Room	DF - Drinking Fountain	Flush	6.53 ppb
Building B Commons	S - Sink	First Draw	5.77 ppb
Building A Commons	S - Sink	First Draw	9.41 ppb
Building E by Ms. Penstone's Room	DF - Drinking Fountain	Flush	5.64 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](http://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 <school personnel name & phone number>.

Sincerely,

<School Personnel>



Monday, December 11, 2017

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

RE: Pleasant Hill Elementary School

PAS WO: 17K0532

Prairie Analytical Systems, Inc. received 36 sample(s) on 11/17/2017 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

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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: 12/11/2017

## LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.						Lab Order:	17K0532		
Project:	Pleasant Hill Elementary School						Lab ID:	17K0532-01		
Client Sample ID:	PE 1						Matrix:	Drinking Water		
Collection Date:	11/7/17 5:01									
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/5/17 8:03	12/5/17 15:58	EPA200.8 R5	LAH	
Client Sample ID:	PE 2						Lab ID:	17K0532-02		
Collection Date:	11/7/17 5:01						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	12/5/17 8:03	12/5/17 16:00	EPA200.8 R5	LAH	
Client Sample ID:	PE 3						Lab ID:	17K0532-03		
Collection Date:	11/7/17 5:02						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	12/5/17 8:03	12/5/17 16:03	EPA200.8 R5	LAH	
Client Sample ID:	PE 4						Lab ID:	17K0532-04		
Collection Date:	11/7/17 5:02						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	12/5/17 8:03	12/5/17 16:05	EPA200.8 R5	LAH	
Client Sample ID:	PE 5						Lab ID:	17K0532-05		
Collection Date:	11/7/17 5:04						Matrix:	Drinking Water		
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	3.42	2.00		µg/L	1	12/5/17 8:03	12/5/17 16:14	EPA200.8 R5	LAH	
Client Sample ID:	PE 6						Lab ID:	17K0532-06		
Collection Date:	11/7/17 5:04						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	12/5/17 8:03	12/5/17 16:16	EPA200.8 R5	LAH	

Prairie Analytical Systems, Inc.

Date: 12/11/2017

## LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17K0532				
Project:	Pleasant Hill Elementary School					Lab ID:	17K0532-07				
Client Sample ID:	PE 7					Matrix:	Drinking Water				
Collection Date:	11/7/17 5:07										
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	3.93	2.00		µg/L	1	12/5/17 8:03	12/5/17 16:18	EPA200.8 R5	LAH		
Client Sample ID:	PE 8					Lab ID:	17K0532-08				
Collection Date:	11/7/17 5:07					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	13.3	2.00		µg/L	1	12/5/17 8:03	12/5/17 16:20	EPA200.8 R5	LAH		
Client Sample ID:	PE 9					Lab ID:	17K0532-09				
Collection Date:	11/7/17 5:09					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	3.56	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:27	EPA200.8 R5	LAH		
Client Sample ID:	PE 10					Lab ID:	17K0532-10				
Collection Date:	11/7/17 5:09					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	12/5/17 8:04	12/5/17 16:34	EPA200.8 R5	LAH		
Client Sample ID:	PE 11					Lab ID:	17K0532-11				
Collection Date:	11/7/17 5:11					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	12/5/17 8:04	12/5/17 16:42	EPA200.8 R5	LAH		
Client Sample ID:	PE 12					Lab ID:	17K0532-12				
Collection Date:	11/7/17 5:12					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	3.08	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:45	EPA200.8 R5	LAH		

Prairie Analytical Systems, Inc.

Date: 12/11/2017

## LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Pleasant Hill Elementary School

Lab Order: 17K0532

Client Sample ID: PE 13

Lab ID: 17K0532-13

Collection Date: 11/7/17 5:15

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.29	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:47	EPA200.8 R5	LAH

Client Sample ID: PE 14

Lab ID: 17K0532-14

Collection Date: 11/7/17 5:15

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	7.66	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:49	EPA200.8 R5	LAH

Client Sample ID: PE 15

Lab ID: 17K0532-15

Collection Date: 11/7/17 5:18

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	5.93	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:51	EPA200.8 R5	LAH

Client Sample ID: PE 16

Lab ID: 17K0532-16

Collection Date: 11/7/17 5:18

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	12/5/17 8:04	12/5/17 16:53	EPA200.8 R5	LAH

Client Sample ID: PE 17

Lab ID: 17K0532-17

Collection Date: 11/7/17 5:20

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	5.07	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:56	EPA200.8 R5	LAH

Client Sample ID: PE 18

Lab ID: 17K0532-18

Collection Date: 11/7/17 5:20

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	6.53	2.00		µg/L	1	12/5/17 8:04	12/5/17 16:58	EPA200.8 R5	LAH



Prairie Analytical Systems, Inc.

Date: 12/11/2017

## LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Pleasant Hill Elementary School

Lab Order: 17K0532

Client Sample ID: PE 19

Lab ID: 17K0532-19

Collection Date: 11/7/17 5:25

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	12/5/17 8:04	12/5/17 17:00	EPA200.8 R5	LAH

Client Sample ID: PE 20

Lab ID: 17K0532-20

Collection Date: 11/7/17 5:25

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	12/5/17 8:04	12/5/17 17:15	EPA200.8 R5	LAH

Client Sample ID: PE 21

Lab ID: 17K0532-21

Collection Date: 11/7/17 5:27

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	5.77	2.00		µg/L	1	12/5/17 8:04	12/5/17 17:18	EPA200.8 R5	LAH

Client Sample ID: PE 22

Lab ID: 17K0532-22

Collection Date: 11/7/17 5:27

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	12/5/17 8:04	12/5/17 17:20	EPA200.8 R5	LAH

Client Sample ID: PE 23

Lab ID: 17K0532-23

Collection Date: 11/7/17 5:29

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	12/5/17 8:04	12/5/17 17:22	EPA200.8 R5	LAH

Client Sample ID: PE 24

Lab ID: 17K0532-24

Collection Date: 11/7/17 5:29

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.40	2.00		µg/L	1	12/5/17 8:04	12/5/17 17:24	EPA200.8 R5	LAH

Prairie Analytical Systems, Inc.

Date: 12/11/2017

## LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Pleasant Hill Elementary School

Lab Order: 17K0532

Client Sample ID: PE 25

Lab ID: 17K0532-25

Collection Date: 11/7/17 5:34

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	2.17	2.00		µg/L	1	12/5/17 8:04	12/5/17 17:26	EPA200.8 R5	LAH

Client Sample ID: PE 26

Lab ID: 17K0532-26

Collection Date: 11/7/17 5:34

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.24	2.00		µg/L	1	12/5/17 8:04	12/5/17 17:29	EPA200.8 R5	LAH

Client Sample ID: PE 27

Lab ID: 17K0532-27

Collection Date: 11/7/17 5:36

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	9.41	2.00		µg/L	1	12/5/17 8:04	12/5/17 17:31	EPA200.8 R5	LAH

Client Sample ID: PE 28

Lab ID: 17K0532-28

Collection Date: 11/7/17 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	12/5/17 8:04	12/5/17 17:33	EPA200.8 R5	LAH

Client Sample ID: PE 29

Lab ID: 17K0532-29

Collection Date: 11/7/17 5:38

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	2.13	2.00		µg/L	1	12/5/17 8:05	12/5/17 17:46	EPA200.8 R5	LAH

Client Sample ID: PE 30

Lab ID: 17K0532-30

Collection Date: 11/7/17 5:39

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	3.87	2.00		µg/L	1	12/5/17 8:05	12/5/17 17:53	EPA200.8 R5	LAH

Prairie Analytical Systems, Inc.

Date: 12/11/2017

## LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17K0532			
Project:	Pleasant Hill Elementary School					Lab ID:	17K0532-31			
Client Sample ID:	PE 31					Matrix:	Drinking Water			
Collection Date:	11/7/17 5:45									
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	2.29	2.00		µg/L	1	12/5/17 8:05	12/5/17 17:55	EPA200.8 R5	LAH	
Client Sample ID:	PE 32					Lab ID:	17K0532-32			
Collection Date:	11/7/17 5:45					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	3.45	2.00		µg/L	1	12/5/17 8:05	12/5/17 17:57	EPA200.8 R5	LAH	
Client Sample ID:	PE 33					Lab ID:	17K0532-33			
Collection Date:	11/7/17 5:47					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	3.04	2.00		µg/L	1	12/5/17 8:05	12/5/17 18:00	EPA200.8 R5	LAH	
Client Sample ID:	PE 34					Lab ID:	17K0532-34			
Collection Date:	11/7/17 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	12/5/17 8:05	12/5/17 18:02	EPA200.8 R5	LAH	
Client Sample ID:	PE 35					Lab ID:	17K0532-35			
Collection Date:	11/7/17 5:50					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	4.79	2.00		µg/L	1	12/5/17 8:05	12/5/17 18:11	EPA200.8 R5	LAH	
Client Sample ID:	PE 36					Lab ID:	17K0532-36			
Collection Date:	11/7/17 5:50					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	5.64	2.00		µg/L	1	12/5/17 8:05	12/5/17 18:13	EPA200.8 R5	LAH	

**Prairie Analytical Systems, Inc.**

**Date:** 12/11/2017

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**LABORATORY RESULTS**

**Client:** Ideal Environmental Engineering, Inc.

**Project:** Pleasant Hill Elementary School

**Lab Order:** 17K0532

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**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 60158 - Phone (847) 651-2804 - Facsimile (847) 458-8680  
 Central / Southern IL Contact - Phone (217) 414-7762 - 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 / LEA	J# 21260A / Pleasant Hill C.U.S.D. 3		
Building Description	Pleasant Hill Elementary School		
Address	502 E. Quincy Street, Pleasant Hill, IL 62386		
SBE ID	01-075-0030-26-2001		
Contact/E-Mail / Address	Central Office Staff / leadinwater@idealenvironmental.com		
Sample ID	Sample Location Description	Date	Time
PE 1	Nurse's room RR sink	11-7-17	5:01A
PE 2	↓		
PE 3	MRR fountain		
PE 4	↓		
PE 5	old kitchen sink		
PE 6	↓		
PE 7	Bldg D fountain by MS Davis		
PE 8	↓		
PE 9	Bldg D common sink		
PE 10	↓		
PE 11	Bldg D fountain by MS Lowe		
PE 12	↓		

Matrix: Drinking Water		Preservative: None	
Requisitioned By	Date	Date	Time
SKOCH	11-9-17	1030	
IDEAL Lead in Water Dept., Co-7	11-13-17	1138	

Analysis/Method Requested: Lead			
Received By	Date	Method of Shipment	
IDEAL Lead in Water Dept., Co-7	11-10-17		
	11-17-17		
	11-17-17		

Sample Location Details		Miscellaneous	
Fixture Type	When Side by Side Fountains, etc. exists, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable.	Source Type: (Single Source/Single Drain=SS; Double Source/Double Drain=DD)	250 ml Collected?
DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Boiler Filler, O=Other <td></td> <td></td> <td></td>			
SS			
SS			
DF			
DF			
SS			
SS			
SS			
DF			
DF			
SS			
SS			
SS			
DF			
DF			

First Draw Sample = 1		Second Draw (30-Second Flush) = 2	
Make / Model	Date Water Last Used	Time Water Last Used	Temperature (°C)
None	11-6-17	8:11A	16.0



## 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) 851-2604 - Facsimile (847) 458-9890  
 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	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. (if) / LEA	J# 21260A / Pleasant Hill C.U.S.D. 3	P.O. (if) / LEA	J# 21260A / Pleasant Hill C.U.S.D. 3									
Building Description	Pleasant Hill Elementary School	Building Description	Pleasant Hill Elementary School									
Address	502 E. Quincy Street, Pleasant Hill, IL 62366	Address	502 E. Quincy Street, Pleasant Hill, IL 62366									
ISBE ID	01-075-0030-26-2001	ISBE ID	01-075-0030-26-2001									
Contact/E-Mail Addr.	Central Office Staff / leadinwater@idealenvironmental.com	Contact/E-Mail Addr.	Central Office Staff / leadinwater@idealenvironmental.com									
Sample ID	Sample Location Description	Date	Time	Sample	Time	Fixture Type	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/Double Drain=DD)	250 ml Collected?	First Draw Sample = 1	Second Draw (30-Second Flush) = 2	Miscellaneous
PE 13	Bldg C fountain by Mr. Lowe	11-7-17	SSA	SSA	↓	DF	—	SS	✓	1	1	# of sources / # of samples: 18/36 Date Water Last Used: 11-6-17 Time Water Last Used: 8/14
PE 14	↓				↓	DF	—	SS	✓	2	2	Make / Model: Elkay
PE 15	Bldg C common sink				↓	S	—	SS	✓	1	1	745
PE 16	↓				↓	S	—	SS	✓	2	2	↓
PE 17	Bldg C fountain by Ms. Hannel				↓	DF	—	SS	✓	1	1	none
PE 18	↓				↓	DF	—	SS	✓	2	2	↓
PE 19	Bldg B fountain by Ms. Zerkler				↓	DF	—	SS	✓	1	1	none
PE 20	↓				↓	DF	—	SS	✓	2	2	↓
PE 21	Bldg B common sink				↓	S	—	SS	✓	1	1	745
PE 22	↓				↓	S	—	SS	✓	2	2	↓
PE 23	Bldg B fountain by Ms. Kemp				↓	DF	—	SS	✓	1	1	Elkay
PE 24	↓				↓	DF	—	SS	✓	2	2	↓

Analysis/Method Requested: Lead		Received By:		Date	Method of Shipment
Collected By:	SSA	Received By:			
IDEAL Lead in Water Dept.,		Received By:			
Instructions:		Time around Time:		Standard	Rush
				11-7-17 3pm	16.0

## 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) 458-9880  
 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	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# 21260A / Pleasant Hill C.U.S.D. 3	P.O. (J#) / LEA	J# 21260A / Pleasant Hill C.U.S.D. 3
Building Description	Pleasant Hill Elementary School	Building Description	Pleasant Hill Elementary School
Address	502 E. Quincy Street, Pleasant Hill, IL 62366	Address	502 E. Quincy Street, Pleasant Hill, IL 62366
ISBE ID	01-075-0030-26-2001	ISBE ID	01-075-0030-26-2001
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	Time
PE25	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE26	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE27	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE28	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE29	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE30	Bldg A fountain by Ms. Schumacher	11-7-17	5:34
PE31	Bldg E fountain by Ms. Wilson	11-7-17	5:34
PE32	Bldg E fountain by Ms. Wilson	11-7-17	5:34
PE33	Bldg E fountain by Ms. Wilson	11-7-17	5:34
PE34	Bldg E fountain by Ms. Wilson	11-7-17	5:34
PE35	Bldg E fountain by Ms. Penstemon	11-7-17	5:34
PE36	Bldg E fountain by Ms. Penstemon	11-7-17	5:34

  

Matrix: Drinking Water		Preservative: None	
Refrigerated By	Date	Time	Date
5/10/04	11-9-17	10:30	IDEAL Lead in Water Dept.

  

Analysis/Method Requested: Lead		Received By		Date		Method of Shipment	
Collected By:	5/10/04	11-9-17	10:30	IDEAL Lead in Water Dept.			
IDEAL Lead in Water Dept.							

  

Turbidity Time		Standard		Rush		Temperature (°C)	
11-7-17	3m	11-7-17	3m	11-7-17	3m	11-7-17	3m
6.0		6.0		6.0		6.0	





**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

**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)

**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**

**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: 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 (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

**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: 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**

**Method: 8260B**

**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

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)

**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

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**

**Method: 8270C**

**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

Anthracene  
 Benzo(a)pyrene  
 Benzo(g,h,i)perylene  
 Bis(2-chloroethoxy) methane  
 Bis(2-ethylhexyl) phthalate  
 Carbazole  
 Chlorobenzilate  
 Dibenzo(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**

**Method: 8321B**

**Matrix Type: NPW/SCM**

Dicamba

MCPA

Oxamyl

Dalapon

Dinoseb

MCPP



