



Lead Testing in Drinking Water

Site:

Moulton Middle School
1101 W. North 6th Street
Shelbyville, IL 62565

Local Education Agency:
Shelbyville C.U.S.D. 4

Completion Date:
November 28, 2017



Public Act 099-0922

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

Scope of Service

On November 28, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Moulton Middle School in Shelbyville, IL at the request of the LEA. The water source locations were provided to IDEAL by the LEA.

Purpose of Sampling

Moulton Middle School is a facility built prior to January 1, 2000, where 4th and 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

24 water samples were collected from 12 sources. All results are shown in Table 1.1.

Table 1.1

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
M 01a	4th Grade Wing	DF - Drinking Fountain	First Draw	ND
M 01b	4th Grade Wing	DF - Drinking Fountain	Flush	ND
M 02a	5th Grade Wing - Outside Office	DF - Drinking Fountain	First Draw	ND
M 02b	5th Grade Wing - Outside Office	DF - Drinking Fountain	Flush	ND
M 03a	5th Grade Wing - Outside Room 114	DF - Drinking Fountain	First Draw	ND
M 03b	5th Grade Wing - Outside Room 114	DF - Drinking Fountain	Flush	ND
M 04a	Kitchen - Prep - NW	KS - Kitchen Sink	First Draw	3.74 ppb
M 04b	Kitchen - Prep - NW	KS - Kitchen Sink	Flush	ND
M 05a	Kitchen - Prep - NE	KS - Kitchen Sink	First Draw	7.35 ppb
M 05b	Kithcen - Prep - NE	KS - Kitchen Sink	Flush	ND
M 06a	Kitchen - Prep - SW	KS - Kitchen Sink	First Draw	ND
M 06b	Kitchen - Prep - SW	KS - Kitchen Sink	Flush	ND
M 07a	Kitchen - Prep - SE	KS - Kitchen Sink	First Draw	ND
M 07b	Kitchen - Prep - SE	KS - Kitchen Sink	Flush	ND
M 08a	6th Grade Wing - Outside Room 209	DF - Drinking Fountain	First Draw	ND
M 08b	6th Grade Wing - Outside Room 209	DF - Drinking Fountain	Flush	ND
M 09a	7th/8th Grade Wing - Outside Rm 213 - Left	DF - Drinking Fountain	First Draw	ND
M 09b	7th/8th Grade Wing - Outside Rm 213 - Left	DF - Drinking Fountain	Flush	ND
M 10a	7th/8th Grade Wing - Outside Rm 213 - Right	DF - Drinking Fountain	First Draw	ND
M 10b	7th/8th Grade Wing - Outside Rm 213 - Right	DF - Drinking Fountain	Flush	ND
M 11a	7th/8th Grade Wing - Outside Room 217	DF - Drinking Fountain	First Draw	ND
M 11b	7th/8th Grade Wing - Outside Room 217	DF - Drinking Fountain	Flush	ND
M 12a	Outbuilding	DF - Drinking Fountain	First Draw	ND
M 12b	Outbuilding	DF - Drinking Fountain	Flush	ND
ND = None Detected				



Notifications

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

Notification Requirements:

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

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

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

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

Table 1.2 – Results over 5 ppb

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
M 05a	Kitchen - Prep - NE	KS - Kitchen Sink	First Draw	7.35 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

Table 1.3 – Results over 2 ppb

Sample ID	Sample Location Description	Fixture Type	Sample Type	Concentration
M 04a	Kitchen - Prep - NW	KS - Kitchen Sink	First Draw	3.74 ppb
M 05a	Kitchen - Prep - NE	KS - Kitchen Sink	First Draw	7.35 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

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.

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

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

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



Paul Weber

From: Paul Weber
Sent: Thursday, December 21, 2017 9:58 AM
To: 'dph.leadh2O@illinois.gov'
Subject: Lead in Water Results - Shelbyville CUSD 4
Attachments: J#20928B Moulton MD Lab Analysis Results.pdf; J#20928B Moulton MS IDPH Data Report.xlsx; Prairie Analytical Accreditation.pdf

On behalf of Shelbyville C.U.S.D. 4, lead-in-water laboratory results and laboratory accreditation are attached for the following school(s):

Moulton Middle School

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

Paul Weber

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

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Sample Notification Letter

<DATE>

Re: Moulton Middle 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 28, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Moulton Middle School in Shelbyville, IL.

This building was built prior to January 1, 2000, and 4th and 5th 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
Kitchen - Prep - NE	KS - Kitchen Sink	First Draw	7.35 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 this notification.

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

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

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

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

If you have any questions, please contact <school personnel name & phone number>.

Sincerely,

<School Personnel>



Wednesday, December 20, 2017

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

RE: Shelbyville CUSD 4/ Moulton Middle School

PAS WO: 17L0068

Prairie Analytical Systems, Inc. received 24 sample(s) on 12/1/2017 for the analyses presented in the following report.

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

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

Respectfully submitted,

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

Christina E. Pierce
Project Manager

Certifications: NELAP/NELAC - IL #100323

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

Prairie Analytical Systems, Inc.

Date: 12/20/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17L0068			
Project:	Shelbyville CUSD 4/ Moulton Middle School					Lab ID:	17L0068-01			
Client Sample ID:	M 01a					Matrix:	Drinking Water			
Collection Date:	11/28/17 6:06									
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:23	EPA200.8 R5	LAH	
Client Sample ID:	M 01b					Lab ID:	17L0068-02			
Collection Date:	11/28/17 6:06					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:25	EPA200.8 R5	LAH	
Client Sample ID:	M 02a					Lab ID:	17L0068-03			
Collection Date:	11/28/17 6:10					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:27	EPA200.8 R5	LAH	
Client Sample ID:	M 02b					Lab ID:	17L0068-04			
Collection Date:	11/28/17 6:10					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:31	EPA200.8 R5	LAH	
Client Sample ID:	M 03a					Lab ID:	17L0068-05			
Collection Date:	11/28/17 6:14					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:34	EPA200.8 R5	LAH	
Client Sample ID:	M 03b					Lab ID:	17L0068-06			
Collection Date:	11/28/17 6:14					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:36	EPA200.8 R5	LAH	

Prairie Analytical Systems, Inc.

Date: 12/20/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17L0068				
Project:	Shelbyville CUSD 4/ Moulton Middle School					Lab ID:	17L0068-07				
Client Sample ID:	M 04a					Matrix:	Drinking Water				
Collection Date:	11/28/17 6:20										
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	3.74	2.00		µg/L	1	12/18/17 9:20	12/18/17 15:38	EPA200.8 R5	LAH		
Client Sample ID:	M 04b					Lab ID:	17L0068-08				
Collection Date:	11/28/17 6:20					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	12/18/17 9:21	12/18/17 15:51	EPA200.8 R5	LAH		
Client Sample ID:	M 05a					Lab ID:	17L0068-09				
Collection Date:	11/28/17 6:22					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	7.35	2.00		µg/L	1	12/18/17 9:21	12/18/17 15:58	EPA200.8 R5	LAH		
Client Sample ID:	M 05b					Lab ID:	17L0068-10				
Collection Date:	11/28/17 6:22					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	12/18/17 9:21	12/18/17 16:00	EPA200.8 R5	LAH		
Client Sample ID:	M 06a					Lab ID:	17L0068-11				
Collection Date:	11/28/17 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	12/18/17 9:21	12/18/17 16:02	EPA200.8 R5	LAH		
Client Sample ID:	M 06b					Lab ID:	17L0068-12				
Collection Date:	11/28/17 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	12/18/17 9:21	12/18/17 16:04	EPA200.8 R5	LAH		

Prairie Analytical Systems, Inc.

Date: 12/20/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17L0068				
Project:	Shelbyville CUSD 4/ Moulton Middle School					Lab ID:	17L0068-13				
Client Sample ID:	M 07a					Matrix:	Drinking Water				
Collection Date:	11/28/17 6:27										
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:07	EPA200.8 R5	LAH		
Client Sample ID:	M 07b					Lab ID:	17L0068-14				
Collection Date:	11/28/17 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	12/18/17 9:21	12/18/17 16:09	EPA200.8 R5	LAH		
Client Sample ID:	M 08a					Lab ID:	17L0068-15				
Collection Date:	11/28/17 6:32					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:18	EPA200.8 R5	LAH		
Client Sample ID:	M 08b					Lab ID:	17L0068-16				
Collection Date:	11/28/17 6:32					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:20	EPA200.8 R5	LAH		
Client Sample ID:	M 09a					Lab ID:	17L0068-17				
Collection Date:	11/28/17 6:35					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:31	EPA200.8 R5	LAH		
Client Sample ID:	M 09b					Lab ID:	17L0068-18				
Collection Date:	11/28/17 6:35					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:33	EPA200.8 R5	LAH		

Prairie Analytical Systems, Inc.

Date: 12/20/2017

LABORATORY RESULTS

Client:	Ideal Environmental Engineering, Inc.					Lab Order:	17L0068				
Project:	Shelbyville CUSD 4/ Moulton Middle School					Lab ID:	17L0068-19				
Client Sample ID:	M 10a					Matrix:	Drinking Water				
Collection Date:	11/28/17 6:38										
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:46	EPA200.8 R5	LAH		
Client Sample ID:	M 10b					Lab ID:	17L0068-20				
Collection Date:	11/28/17 6:38					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:48	EPA200.8 R5	LAH		
Client Sample ID:	M 11a					Lab ID:	17L0068-21				
Collection Date:	11/28/17 6:42					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	12/18/17 9:21	12/18/17 16:51	EPA200.8 R5	LAH		
Client Sample ID:	M 11b					Lab ID:	17L0068-22				
Collection Date:	11/28/17 6:42					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	12/18/17 9:21	12/18/17 16:53	EPA200.8 R5	LAH		
Client Sample ID:	M 12a					Lab ID:	17L0068-23				
Collection Date:	11/28/17 6:46					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:55	EPA200.8 R5	LAH		
Client Sample ID:	M 12b					Lab ID:	17L0068-24				
Collection Date:	11/28/17 6:46					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	12/18/17 9:21	12/18/17 16:59	EPA200.8 R5	LAH		

Prairie Analytical Systems, Inc.

Date: 12/20/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Shelbyville CUSD 4/ Moulton Middle School

Lab Order: 17L0068

Notes and Definitions

- R RPD outside acceptance limits.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



Client / Address		Sample Location Details		Miscellaneous	
Ideal Environmental Engineering, Inc. / 2904 Tractor Lane					
City, State, Zip Code	Bloomington, IL 61704	Source Type:	When Side by Side Fountains, etc. exist, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable.	250 ml Collected?	First Draw Sample = 1
Phone / Facsimile	309-828-4259 / 309-828-5735	WF=Water Cooler, KS=Kitchen Sink, DF=Drinking Fountain, S=Sink, BF=Bottle Filler, O=Other			
P.O. (J#) / LEA	J#20928B / Shelbyville C.U.S.D. 4				
Building Description	Moulton Middle School				
Address	1101 W. North 6th Street, Shelbyville, IL 62565				
ISBE ID	11-087-0040-26-2002				
Contact/IE-Mail Address	Central Office Staff / leadinwater@idealenvironmental.com				
Sample ID	Sample Location Description	Date	Time	Sample	Time
M-01a	4th grade wing	11/23/17	6:06a	✓	6:06a
M-01b	5th grade wing				
M-02a	5th grade wing outside office		6:10a		
M-02b					
M-03a	5th grade wing outside Rm 114		6:14a		
M-03b					
M-04a	Kitchen Prep		6:20a		
M-04b	N.W				
M-05a	N.E		6:22a		
M-05b	N.E				
M-06a	S.W		6:24a		
M-06b	S.W				

Matrix: Drinking Water		Preservative: None		Analysis/Method Requested: Lead	
Relinquished By	Date	Time	Received By	Date	Time
Collected By: <i>[Signature]</i>	11/30/17	8:45am	IDEAL Lead in Water Dept., <i>[Signature]</i>	12/11/17	
IDEAL Lead in Water Dept., <i>[Signature]</i>	12/11/17	11:30		12/17	3:00

Instructions:	
Standard	<input checked="" type="checkbox"/> No
Rush	<input type="checkbox"/> No
Turnaround Time:	16.8
Temperature (°C)	16.8



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.

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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
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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

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FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

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

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

FOT Name: Non Potable Water, Inorganic

Method: SM2130B,2001

Matrix Type: NPW/SCM

Turbidity

Method: SM2310B,1997

Matrix Type: NPW/SCM

Acidity

Method: SM2320B,1997

Matrix Type: NPW

Alkalinity

Method: SM2340B,1997

Matrix Type: NPW

Hardness

Method: SM2540B,1997

Matrix Type: NPW

Residue (Total)

Method: SM2540C,1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D,1997

Matrix Type: NPW

Residue (TSS)

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Prairie Analytical Systems, Incorporated
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 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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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

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Prairie Analytical Systems, Incorporated
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FOT Name: Non Potable Water, Inorganic

Method: USEPA200.7,1994

Matrix Type: NPW/SCM

Vanadium

Titanium

Zinc

Method: USEPA200.8,1994

Matrix Type: NPW/SCM

Aluminum

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Nickel

Selenium

Sodium

Tin

Vanadium

Antimony

Barium

Boron

Calcium

Cobalt

Iron

Magnesium

Molybdenum

Potassium

Silver

Thallium

Titanium

Zinc

Method: USEPA245.2,1974

Matrix Type: NPW/SCM

Mercury

Method: USEPA300.0R2.1,1993

Matrix Type: NPW

Bromide

Fluoride

Nitrate-Nitrite (as N)

Orthophosphate (as P)

Chloride

Nitrate

Nitrite

Sulfate

Method: USEPA310.2,1974

Matrix Type: NPW

Alkalinity

Method: USEPA335.4R1.0,1993

Matrix Type: NPW/SCM

Cyanide

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

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Prairie Analytical Systems, Incorporated
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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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Prairie Analytical Systems, Incorporated
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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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Prairie Analytical Systems, Incorporated
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Springfield, IL 62707-8413

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

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

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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Prairie Analytical Systems, Incorporated
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 Springfield, IL 62707-8413

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

FOT Name: Solid and Chemical Materials, Organic

Method: 8321B

Matrix Type: NPW/SCM

Dicamba

MCPA

Oxamyl

Dalapon

Dinoseb

MCPP

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 60155 - Phone (847) 651-2604 - Facsimile (847) 456-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



Client / Address		Ideal Environmental Engineering, Inc. / 2904 Tractor Lane	
City, State, Zip Code		Bloomington, IL 61704	
Phone / Facsimile		309-828-4259 / 309-828-5735	
P.O. / # / LEA		JH20928B / Shelbyville C.U.S.D. 4	
Building Description		Moulton Middle School	
Address		1101 W. North 6th Street, Shelbyville, IL 62565	
SBE ID		11-087-0040-26-2002	
Contact/E-Mail Address		Central Office Staff / leadinwater@idealenvironmental.com	
Sample ID	Sample Location Description	Date	Sample Time
M-07a	Kitchen trap SE	11/26/17	6:22a
M-07b	SE		
M-08a	6th grade wing Outside Room 209		6:32a
M-08b	↓		
M-09a	7th 8th grade wing outside Room 213		6:35a
M-09b	↓		
M-10a	↓		6:38a
M-10b	7th 8th grade wing outside Room 217		6:42a
M-11a	↓		
M-11b	↓		6:46a
M-12a	Outbuilding		
M-12b	↓		

Sample Location Details		Miscellaneous	
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?
WF=Water Cooler, KS=Kitchen Sink, BF=Bottle Filler, O=Other			
KS	-	SS	Y
↓	-		
DF	-		
DF	-		
DF	L		
DF	L		
DF	R		
DF	R		
DF	-		
DF	-		
DF	-		
DF	-		
DF	-		
DF	-		

Analysis/Method Requested: Lead		Method of Shipment	
Received By	Date		
IDEAL Lead in Water Dept.,	12/17	13-00	17

Turnaround Time:		Standard		Rush	
Yes	No	Yes	No	Yes	No

Temperature (°C)	
At Collection	At Analysis
16.8	16.8



