
WATER QUALITY TESTING

FOR

ROSEMONT SD 78

ROSEMONT, ILLINOIS

OCTOBER 13, 2017

PROJECT NUMBER: 17-18363



A DIVISION OF GALLAGHER BASSETT SERVICES, INC

1550 Hubbard Ave., Batavia, IL 60510, 630-879-3006

INTRODUCTION

Rosemont School District 78 implemented a proactive program of water testing at Rosemont Elementary School. Water sampling was conducted by Kathryn Hermann of Aires Consulting on October 13, 2017. Mr. Geoffrey J. Bacci II, P.E. designed the study and developed this report.

All sampling methodology followed protocol required by The Lead in Drinking Water Testing Bill (LDWTB) and guidelines published by the Illinois Department of Public Health (IDPH).

BACKGROUND INFORMATION

The Lead in Drinking Water Testing Bill (LDWTB) was signed into law by Governor Bruce Rauner effective January 17, 2017. The bill amends six (6) different Illinois Codes and Acts including:

- The Illinois School Code
- Illinois Plumbing License Law.

The LDWTB requires School buildings constructed prior to January 1, 2000 to test drinking water sources for lead and provide written notification of the results. The Bill also directs the Illinois department of Public Health to draft rules by 1/1/2018 which may have additional requirements. The IDPH has issued a guidance document for drinking water testing which is included in Appendix I. The following is a summary of those guidelines:

- All schools housing 5th grade and under built before 1/1/2000 must test drinking water sources used for drinking and cooking.
- Results of tests that are 5 parts per billion (ppb) or less can be communicated to parents at minimum by website posting.
- Locations that have results over 5 ppb must be communicated in writing or electronically to affected parents. That communication should also include

can also denote a first draw sample from one of the outlets (i.e. a combination sink/water fountain).

Samples were analyzed by Prairie Analytical Systems, Inc. Prairie Analytical is accredited by the National Environmental Laboratory Environmental Conference (NELAC).

The EPA recommends taking action to reduce lead levels if sample results exceed 20 ppb. That action could include water treatment or fixture replacement.

Public water supplies are required by the Safe Drinking Water Act to take corrective action if 10% or more of their sources contain lead levels greater than 15 ppb.

RESULTS

Field sheets identifying sample numbers and sample locations maps are included in Appendix II. Laboratory results are included in Appendix III.

The following locations exceeded 5 parts per billion (ppb).

- RS-2A: first draw at room 105 bathroom sink – 9.14 ppb

Parents with children in affected rooms that exceeded 5 ppb should be notified within 7 days per IDPH guidelines. Remaining results should be at minimum posted on the Districts website. All sample results should be e-mailed to IDPH within 7 days.

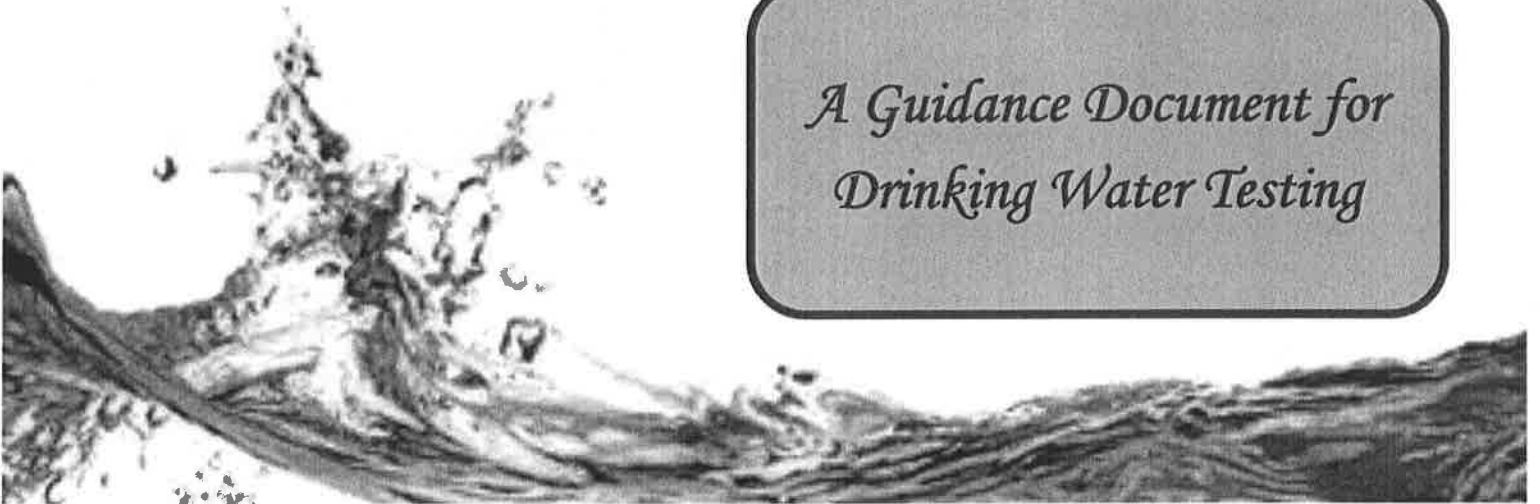
PROFESSIONAL CERTIFICATION

Aires Consulting, a division of Gallagher Bassett Services, Inc. conducted this study in the interest of **Rosemont School District 78** to assist in meeting environmental obligations and regulations. In this respect, we hope the results of this study are useful. *This study was not intended to include every environmental exposure that may be present at the facility; only those items specifically addressed in the report were evaluated.* If you have any questions concerning this study please let us know.

*Sampling Protocol for
Drinking Water in Schools*



*A Guidance Document for
Drinking Water Testing*



Action Steps Prior to Sampling

1. Your local water supply can be a great resource. Contact them to request assistance in establishing your sampling plan.
2. Obtain a general floor plan for each school building. Floor plans are available in the schools' asbestos management plan.
3. Identify all fixtures to be sampled on the general floor plan. All plumbing fixtures that are used for cooking or drinking must be sampled. Bathroom and utility sinks do not need to be sampled.
4. Assign a unique alphanumeric identifier to each fixture.
5. Label fixture identifiers on the floor plan. Make sure all samples are labeled with the corresponding alphanumeric identifier for each fixture.
6. Determine which IEPA accredited laboratory you will utilize for the analysis. A list can be found at <http://www.epa.illinois.gov/citizens/citizens-information/in-your-home/resources-on-lead/index>.
7. Contact the laboratory to obtain enough 250 mL sample bottles and Chain of Custody forms to allow you to collect 2 samples from each fixture. The laboratory will also provide sample shipping instructions.



Test Results

How to interpret your test results

1. Test results will be reported in either parts per billion (ppb) or micrograms per liter (ug/l). Both units of measure are appropriate.
2. If any sample exceeds 5 ppb of lead, the notification requirements are triggered.



Reporting and Notification Requirements

- ❖ Within 7 business days of receipt of test results, schools must email all results to IDPH at DPH.LeadH2O@illinois.gov.
- ❖ If all sample results are less than 5 ppb, schools may use their website (at minimum) to notify parents of the results.
- ❖ If any of the sample results exceed 5 ppb, schools must notify parents in writing or electronically, and include :
 - The location and source exceeding 5 ppb, and
 - The USEPA website for information about lead in drinking water: <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.

Parents should be advised to contact their health care provider with any concerns about their child's health, including blood tests for lead exposure.

Prairie Analytical Systems, Inc.

Date: 11/2/2017

LABORATORY RESULTS

Client:	Aires Consulting Group									
Project:	17-18363 Rosemont Elementary School					Lab Order:	17J0683			
Client Sample ID:	RWF-1A					Lab ID:	17J0683-01			
Collection Date:	10/13/17 4:52					Matrix:	Drinking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		U	2.00		µg/L	1	10/27/17 14:18	10/30/17 23:53	EPA200.8	KSH
Client Sample ID:	RWF-1B					Lab ID:	17J0683-02			
Collection Date:	10/13/17 4:53					Matrix:	Drinking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		U	2.00		µg/L	1	10/27/17 14:18	10/30/17 23:56	EPA200.8	KSH
Client Sample ID:	RS-2A					Lab ID:	17J0683-03			
Collection Date:	10/13/17 4:58					Matrix:	Drinking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		9.14	2.00		µg/L	1	10/27/17 14:18	10/30/17 23:59	EPA200.8	KSH
Client Sample ID:	RS-2B					Lab ID:	17J0683-04			
Collection Date:	10/13/17 4:59					Matrix:	Drinking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		2.08	2.00		µg/L	1	10/27/17 14:18	10/31/17 0:02	EPA200.8	KSH
Client Sample ID:	RCS-3A					Lab ID:	17J0683-05			
Collection Date:	10/13/17 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	10/27/17 14:18	10/31/17 0:05	EPA200.8	KSH
Client Sample ID:	RCS-3B					Lab ID:	17J0683-06			
Collection Date:	10/13/17 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	10/27/17 14:18	10/31/17 0:08	EPA200.8	KSH
Client Sample ID:	RKS-4A					Lab ID:	17J0683-07			
Collection Date:	10/13/17 5:07					Matrix:	Drinking Water			
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS										
*Lead		2.35	2.00		µg/L	1	10/27/17 14:18	10/31/17 0:22	EPA200.8	KSH

Prairie Analytical Systems, Inc.

Date: 11/2/2017

LABORATORY RESULTS

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Client: Aires Consulting Group Project: 17-18363 Rosemont Elementary School Client Sample ID: RWF-7B Collection Date: 10/13/17 5:17 Lab Order: 17J0683 Lab ID: 17J0683-14 Matrix: Drinking Water									
Client Sample ID: RWF-8A Collection Date: 10/13/17 5:24 Lab ID: 17J0683-15 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:05	EPA200.8	KSH
Client Sample ID: RWF-8B Collection Date: 10/13/17 5:25 Lab ID: 17J0683-16 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:08	EPA200.8	KSH
Client Sample ID: RB-8C Collection Date: 10/13/17 5:26 Lab ID: 17J0683-17 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:11	EPA200.8	KSH
Client Sample ID: RS-9A Collection Date: 10/13/17 5:31 Lab ID: 17J0683-18 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:14	EPA200.8	KSH
Client Sample ID: RS-9B Collection Date: 10/13/17 5:32 Lab ID: 17J0683-19 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:17	EPA200.8	KSH
Client Sample ID: RS-10A Collection Date: 10/13/17 5:35 Lab ID: 17J0683-20 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:25	EPA200.8	KSH

Prairie Analytical Systems, Inc.

Date: 11/2/2017

LABORATORY RESULTS

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Client: Aires Consulting Group Project: 17-18363 Rosemont Elementary School Client Sample ID: RS-14A Collection Date: 10/13/17 5:49 Lab Order: 17J0683 Lab ID: 17J0683-27 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	2.48	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:54	EPA200.8	KSH
Client Sample ID: RS-14B Collection Date: 10/13/17 5:50 Lab ID: 17J0683-28 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/27/17 14:19	10/31/17 1:57	EPA200.8	KSH
Client Sample ID: RIF-15 Collection Date: 10/13/17 6:02 Lab ID: 17J0683-29 Matrix: Drinking Water									
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/30/17 10:45	10/31/17 2:17	EPA200.8	KSH
Conventional Chemistry Parameters									
pH	8.27	0.0100		pH Units	1	10/13/17 6:02	10/13/17 6:02	EPA150.1	

Prairie Analytical Systems, Inc.

Date: 11/2/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: 17-18363 Rosemont Elementary School

Lab Order: 17J0683

Metals by ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch A006876 - EPA 200.8 Metals

Matrix Spike (A006876-MS2)

Source: 17J0683-19

Prepared: 10/27/201 Analyzed: 10/31/201

Lead 512 2.00 µg/L 500.00 0.551 102 75-125

Matrix Spike Dup (A006876-MSD1)

Source: 17J0683-09

Prepared: 10/27/201 Analyzed: 10/31/201

Lead 492 2.00 µg/L 500.00 0.401 98 75-125 1 20

Matrix Spike Dup (A006876-MSD2)

Source: 17J0683-19

Prepared: 10/27/201 Analyzed: 10/31/201

Lead 506 2.00 µg/L 500.00 0.551 101 75-125 1 20

Batch A006904 - EPA 200.8 Metals

Blank (A006904-BLK1)

Prepared: 10/30/201 Analyzed: 10/31/201

Lead U 2.00 µg/L

LCS (A006904-BS1)

Prepared: 10/30/201 Analyzed: 10/31/201

Lead 483 2.00 µg/L 500.00 97 85-115

Matrix Spike (A006904-MS1)

Source: 17J0683-29

Prepared: 10/30/201 Analyzed: 10/31/201

Lead 542 2.00 µg/L 500.00 0.0978 108 75-125

Matrix Spike (A006904-MS2)

Source: 17J0782-10

Prepared: 10/30/201 Analyzed: 10/31/201

Lead 498 2.00 µg/L 500.00 0.165 100 75-125

Matrix Spike Dup (A006904-MSD1)

Source: 17J0683-29

Prepared: 10/30/201 Analyzed: 10/31/201

Lead 524 2.00 µg/L 500.00 0.0978 105 75-125 3 20

Matrix Spike Dup (A006904-MSD2)

Source: 17J0782-10

Prepared: 10/30/201 Analyzed: 10/31/201

Lead 493 2.00 µg/L 500.00 0.165 98 75-125 1 20

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 - 3114 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		Aires Consulting - Gallagher Bassett				Reporting	
Address		1550 Hubbard Ave				<input type="checkbox"/> CCDD <input type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial <input type="checkbox"/> TACO	
City/State/Zip Code		Batavia, IL 60510				<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F	
Phone / Facsimile		630.879.3006				<input type="checkbox"/> Residential <input type="checkbox"/> Industrial	
Project Name / Number		17-18363				<input type="checkbox"/> RSC <input type="checkbox"/> Industrial	
Project Location		Rosemont Elementary School				Sampler Comments	
P.O. # or Invoice To		17-18363					
Contact Person		Geoff Baccii II					
Sample Description:		Sampling Date		Matrix Preserv Code		No. of Containers	
Lead in Drinking Water - IL						X	
See attached Addendum (2 pages) for sample information (29 samples)							
Unless otherwise noted:							
Matrix Code: DW/							
Preservative Code: 0							
No. of containers per sample: 1							
Sample Type: Grab							
Analysis requested: Lead in Drinking Water							
Matrix Code		A - Aqueous		DW - Drinking Water		GW - Ground Water	
Preservative Code		0 - None		1 - HCl		2 - H2SO4	
Fulfilled by		Date		Time		Received By	
Matthew Germain		10/13/17		4:00PM		Rebecca	
Bogdan		10/19/17		12:20		W. C. Lee	
K. Germain		10/19/17		1505		W. C. Lee	
Instructor		10/23/17		17:05		URS	
Turnaround Time: Standard		Rush		QC Level		On wet ice?	
Date Required:		2		3		4	
Temperature (°C)		21.7					

Appendix III

Revision 8
July 31, 2017

Page 1 of 3
10/24/17 10:40

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

IS6E ID: 60160780022001
 Building ID: 1
 Building Description: Rosemont Elementary School
 Sample Collect: 10/13/2017
 Collected by: Kathryn Herrmann

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
5:40 AM	RIF-11	Boiler/Pool Equip. Rm.	O - Other	10/12/2017	5:00 PM	First Draw	250	Incoming Source from Newer Side of Bldg; pH = 8.60
5:43 AM	RS-12A	S. Sink in Rm. 110	S - Sink	10/12/2017	5:00 PM	First Draw	250	
5:44 AM	RS-12B	S. Sink in Rm. 110	S - Sink	10/12/2017	5:00 PM	Flush	250	
5:45 AM	RS-13A	N. Sink in Rm. 110	S - Sink	10/12/2017	5:00 PM	First Draw	250	
5:46 AM	RS-13B	N. Sink in Rm. 110	S - Sink	10/12/2017	5:00 PM	Flush	250	
5:49 AM	RS-14A	Room 202	S - Sink	10/12/2017	5:00 PM	First Draw	250	
5:50 AM	RS-14B	Room 202	S - Sink	10/12/2017	5:00 PM	Flush	250	
6:02 AM	RIF-15	Custodial Closet Across Rm. 128	O - Other	10/12/2017	5:00 PM	First Draw		Incoming Source from Older Side of Bldg; pH = 8.27

Revision 8
 July 31, 2017