
WATER QUALITY TESTING

FOR

***GENEVA COMMUNITY UNIT SCHOOL DISTRICT 304
MILL CREEK ELEMENTARY SCHOOL***

GENEVA, ILLINOIS

MAY 3, 2018

PROJECT NUMBER: 17-18349

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INTRODUCTION

Geneva Community Unit School District 304 has implemented a proactive program of water testing at Mill Creek Elementary School. Initial sampling was conducted on September 12, 2017 which identified several sources with lead concentrations exceeding the Lead in Drinking Water Testing Bill (LDWTB) reporting limit (5.0 ppb) and the USEPA's recommended action level (20.0 ppb).

The District performed corrective action and mitigation and all sources that exceeded the LDWTB reporting limit were re-sampled.

Re-sampling was conducted by Mr. Dan Petras of Aires Consulting on May 3, 2018. Mr. Geoffrey J. Bacci II, P.E. designed the study and developed this report.

METHODOLOGY

Water testing followed protocol recommended by IDPH and the LDWTB. All water sources have two samples collected. The first collection at each source is a "first draw" sample. Water collection occurs in first draw samples after sources were unused for at least eight (8) hours but not more than 18 hrs. The second sample at that source is collected after 30 seconds of flushing. Each sample is given an identifier with letters that identify the school and a number that identifies the source. An "A" after the letter indicates a first draw sample and a "B" identifies a flush sample. For example sample MKS-1A was collected at the first location at Mill Creek Elementary and is a first draw sample at a kitchen sink.

Samples were analyzed by Suburban Laboratories, Inc. Suburban Laboratories is accredited by the National Environmental Laboratory Environmental Conference (NELAC).

The USEPA 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 are included in Appendix I. Laboratory results are included in Appendix II.

The following locations exceeded 5 parts per billion (ppb). Locations that exceeded the USEPA recommended action level of 20 ppb are shown in **bold print**.

- MCS-7A: first draw sample from the classroom sink in Room 172 – 5.71 ppb
- MWF-9A: first draw sample from the drinking fountain in Classroom 174 - 6.13 ppb
- MCS-10A: first draw sample from the classroom sink in the Room 174 – 7.02 ppb
- MCS-13A: first draw sample from the classroom sink in the Room 175 – 7.54 ppb
- MWF-14A: first draw sample from the drinking fountain in Classroom 175 - 6.82 ppb
- MCS-16A: first draw sample from the classroom sink in the Room 173 – 9.96 ppb
- MS-19A: first draw sample from the sink in the Nurse's Office – 5.90 ppb
- MS-20A: first draw sample from the bathroom sink in the Nurse's Office – 15.8 ppb
- **MS-24A: first draw sample from the bathroom sink in Classroom 142 – 20.2 ppb**
- MS-27A: first draw sample from the bathroom sink in Classroom 140 – 19.0 ppb
- MCS-54A: first draw sample from the south sink in the Art Room 11 - 7.13 ppb
- MCS-55A: first draw sample from the east sink in the Art Room 11 – 14.4 ppb

- MCS-56A: first draw sample from the north sink in the Art Room 11 - 11.4 ppb
- MWF-60A: first draw sample from the drinking fountain in Classroom 18 – 14.9 ppb
- **MS-74A: first draw sample from the sink at the south end of the Library – 22.1 ppb.**

Drinking fountains that exceed the EPA action level of 20 ppb should be taken out of service. Sinks that exceed the EPA action level of 20 ppb should be taken out of service or labeled to avoid using as a drinking or cooking source. In order to use the sources further investigation and corrective action would be necessary to identify the lead source and identify corrective action to reduce lead levels.

The re-testing results should be proactively shared with parents or guardians and other stakeholders and at a minimum be posted on the District's website.

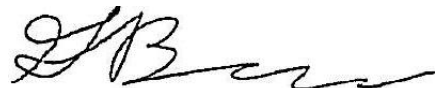
PROFESSIONAL CERTIFICATION

Aires Consulting, a division of Gallagher Bassett Services, Inc. conducted this study in the interest of Geneva Community Unit School District 304 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.

Respectfully Submitted,



Daniel Petras
Environmental Health and Safety Consultant



Geoffrey J. Bacci II, P.E.
Director of Operations

FIELD DATA FORM

School/Facility Name	Address	Sample Collector Name(s)
Mill Creek	N900 Brundige Drive	Dan Petras
ISBE ID: (ex:01-001-0001-01-00001)	Geneva, IL 60134	
310453040262006		

Water system last used Date: 05/02/2018 Time: 7:00

All samples must be collected in unpreserved

	Bldg. ID	Bldg. Desc	Sample ID#	Sample Loc. Desc	Collection Date MMDDYYYY	Collection Time HH24MM	Fixture Type	Sample Type	Sample Vol.	Notes
1	0001	Main Building	MKS-1A	Kitchen	05/03/2018	5:09	KS - Kitchen Sink	First Draw	250	
2	0001	Main Building	MKS-1B	Kitchen	05/03/2018	5:09	KS - Kitchen Sink	Flush	250	
3	0001	Main Building	MCS-7A	Classroom 172	05/03/2018	5:13	S - Sink	First Draw	250	
4	0001	Main Building	MCS-7B	Classroom 172	05/03/2018	5:13	S - Sink	Flush	250	
5	0001	Main Building	MWF-9A	Classroom 174	05/03/2018	5:14	WF - Water Cooler	First Draw	250	
6	0001	Main Building	MWF-9B	Classroom 174	05/03/2018	5:14	WF - Water Cooler	Flush	250	
7	0001	Main Building	MCS-10A	Classroom 174	05/03/2018	5:20	S - Sink	First Draw	250	
8	0001	Main Building	MCS-10B	Classroom 174	05/03/2018	5:20	S - Sink	Flush	250	
9	0001	Main Building	MCS-12A	Classroom 177	05/03/2018	5:23	S - Sink	First Draw	250	
10	0001	Main Building	MCS-12B	Classroom 177	05/03/2018	5:23	S - Sink	Flush	250	
11	0001	Main Building	MCS-13A	Classroom 175	05/03/2018	5:28	S - Sink	First Draw	250	
12	0001	Main Building	MCS-13B	Classroom 175	05/03/2018	5:28	S - Sink	Flush	250	
13	0001	Main Building	MWF-14A	Classroom 175	05/03/2018	5:29	WF - Water Cooler	First Draw	250	
14	0001	Main Building	MWF-14B	Classroom 175	05/03/2018	5:29	WF - Water Cooler	Flush	250	
15	0001	Main Building	MCS-16A	Classroom 173	05/03/2018	5:33	S - Sink	First Draw	250	
16	0001	Main Building	MCS-16B	Classroom 173	05/03/2018	5:33	S - Sink	Flush	250	
17	0001	Main Building	MS-19A	Nurse's office	05/03/2018	5:40	S - Sink	First Draw	250	
18	0001	Main Building	MS-19B	Nurse's office	05/03/2018	5:40	S - Sink	Flush	250	
19	0001	Main Building	MS-20A	Nurse's bathroom	05/03/2018	5:41	S - Sink	First Draw	250	
20	0001	Main Building	MS-20B	Nurse's bathroom	05/03/2018	5:41	S - Sink	Flush	250	
21	0001	Main Building	MS-24A	lassroom 142 bathroom	05/03/2018	5:45	S - Sink	First Draw	250	
22	0001	Main Building	MS-24B	lassroom 142 bathroom	05/03/2018	5:45	S - Sink	Flush	250	
23	0001	Main Building	MS-27A	lassroom 140 bathroom	05/03/2018	5:48	S - Sink	First Draw	250	
24	0001	Main Building	MS-27B	lassroom 140 bathroom	05/03/2018	5:48	S - Sink	Flush	250	
25	0001	Main Building	MCS-54A	Art Room 11	05/03/2018	5:55	S - Sink	First Draw	250	
26	0001	Main Building	MCS-54B	Art Room 11	05/03/2018	5:55	S - Sink	Flush	250	
27	0001	Main Building	MCS-55A	Art Room 11	05/03/2018	5:56	S - Sink	First Draw	250	
28	0001	Main Building	MCS-55B	Art Room 11	05/03/2018	5:56	S - Sink	Flush	250	
29	0001	Main Building	MCS-56A	Art Room 11	05/03/2018	5:57	S - Sink	First Draw	250	
30	0001	Main Building	MCS-56B	Art Room 11	05/03/2018	5:57	S - Sink	Flush	250	
31	0001	Main Building	MCS-59A	Classroom 18	05/03/2018	6:00	S - Sink	First Draw	250	
32	0001	Main Building	MCS-59B	Classroom 18	05/03/2018	6:00	S - Sink	Flush	250	
33	0001	Main Building	MWF-60A	Classroom 18	05/03/2018	6:05	WF - Water Cooler	First Draw	250	
34	0001	Main Building	MWF-60A	Classroom 18	05/03/2018	6:05	WF - Water Cooler	Flush	250	
35	0001	Main Building	MS-74A	Library	05/03/2018	6:07	S - Sink	First Draw	250	
36	0001	Main Building	MS-74B	Library	05/03/2018	6:07	S - Sink	Flush	250	
37	0001	Main Building	MIF	Water Main	05/03/2018	6:20	O - Other	Flush	250	flush off of the incoming water source
38									250	
39									250	
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68									250	

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

May 10, 2018

Geoff Bacci
Aires Consulting
1550 Hubbard Ave
Batavia, IL 60510

Workorder: 1805282

TEL: (630) 593-6078

FAX:

RE: Mill Creek Drinking Water Lead Analysis

Dear Geoff Bacci:

Suburban Laboratories, Inc. received 37 sample(s) on 5/3/2018 for the analyses presented in the following report.

Customer has provided 250 mL volume sample bottles for all samples collected. Please note, all sample results that exceed 5.00 ug/L should be promptly reported to parents or guardians of all enrolled students. Results that are below 5.00 ug/L should be reported on the school website. Please refer to Public Act 099-0922 or the Illinois Department of Public Health for specific reporting requirements. Suburban Laboratories will forward all results to the IDPH within seven (7) business days from the date of this report.

This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc. If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Pat Rodriguez
Project Manager
708-544-3260 ext 214
pat@suburbanlabs.com



SUBURBAN LABORATORIES, Inc.

Appendix II



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

Client ID: Aires Consulting

Report Date: May 10, 2018

Project Name: Mill Creek Drinking Water Lead Analysis

Workorder: 1805282

Analyte: Lead

Method: EPA 200.8

Matrix: Drinking Water

Sample ID	Client Sample ID	Result	MRL	Units	Date & Time Water System Last Used	Date Collected	Date Analyzed
1805282-001A	MKS-1A~Kitchen~First Draw	4.59	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-002A	MKS-1B~Kitchen~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-003A	MCS-7A~Classroom 172~First Draw	5.71	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-004A	MCS-7B~Classroom 172~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-005A	MWF-9A~Classroom 174~First Draw	6.13	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-006A	MWF-9B~Classroom 174~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-007A	MCS-10A~Classroom 174~First Draw	7.02	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-008A	MCS-10B~Classroom 174~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-009A	MCS-12A~Classroom 177~First Draw	4.66	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-010A	MCS-12B~Classroom 177~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-011A	MCS-13A~Classroom 175~First Draw	7.54	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-012A	MCS-13B~Classroom 175~Flush	2.07	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-013A	MWF-14A~Classroom 175~First Draw	6.82	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-014A	MWF-14B~Classroom 175~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-015A	MCS-16A~Classroom 173~First Draw	9.96	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-016A	MCS-16B~Classroom 173~Flush	2.73	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-017A	MS-19A~Nurse's office~First Draw	5.90	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-018A	MS-19B~Nurse's office~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-019A	MS-20A~Nurse's bathroom~First Draw	15.8	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-020A	MS-20B~Nurse's bathroom~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-021A	MS-24A~Classroom 142 bathroom~First Draw	20.2	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-022A	MS-24B~Classroom 142 bathroom~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-023A	MS-27A~Classroom 140 bathroom~First Draw	19.0	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-024A	MS-27B~Classroom 140 bathroom~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-025A	MCS-54A~Art Room 11~First Draw	7.13	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018

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ND - Not Detected Down to the Laboratory Minimum Reporting Limit (MRL)



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Client ID: Aires Consulting

Report Date: May 10, 2018

Project Name: Mill Creek Drinking Water Lead Analysis

Workorder: 1805282

Analyte: Lead

Method: EPA 200.8

Matrix: Drinking Water

Sample ID	Client Sample ID	Result	MRL	Units	Date & Time Water System Last Used	Date Collected	Date Analyzed
1805282-026A	MCS-54B~Art Room 11~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-027A	MCS-55A~Art Room 11~First Draw	14.4	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-028A	MCS-55B~Art Room 11~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-029A	MCS-56A~Art Room 11~First Draw	11.4	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-030A	MCS-56B~Art Room 11~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-031A	MCS-59A~Classroom 18~First Draw	2.93	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-032A	MCS-59B~Classroom 18~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-033A	MWF-60A~Classroom 18~First Draw	14.9	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-034A	MWF-60B~Classroom 18~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-035A	MS-74A~Library~First Draw	22.1	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-036A	MS-74B~Library~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018
1805282-037A	MIF~Water Main~Flush	ND	2.00	µg/L	05/02/18 07:00	5/3/2018	5/8/2018

1805282-1A-37A

FIELD DATA FORM

School/Facility Name
Mill Creek
ISBE ID: (ex:01-001-0001-01-00001)
310453040262006

Address
N900 Brundige Drive
Geneva, IL 60134

Sample Collector Name(s)
Dan Petras

Water system last used Date:

05/02/2018

Time:

7:00

All samples must be collected in unpreserved

	Bldg. ID	Bldg. Desc	Sample ID#	Sample Loc. Desc	Collection Date MMDDYYYY	Collection Time HH24MM	Fixture Type	Sample Type	Sample Vol.	Notes
1	0001	Main Building	MKS-1A	Kitchen	05/03/2018	5:09	KS - Kitchen Sink	First Draw	250	
2	0001	Main Building	MKS-1B	Kitchen	05/03/2018	5:09	KS - Kitchen Sink	Flush	250	
3	0001	Main Building	MCS-7A	Classroom 172	05/03/2018	5:13	S - Sink	First Draw	250	
4	0001	Main Building	MCS-7B	Classroom 172	05/03/2018	5:13	S - Sink	Flush	250	
5	0001	Main Building	MWF-9A	Classroom 174	05/03/2018	5:14	WF - Water Cooler	First Draw	250	
6	0001	Main Building	MWF-9B	Classroom 174	05/03/2018	5:14	WF - Water Cooler	Flush	250	
7	0001	Main Building	MCS-10A	Classroom 174	05/03/2018	5:20	S - Sink	First Draw	250	
8	0001	Main Building	MCS-10B	Classroom 174	05/03/2018	5:20	S - Sink	Flush	250	
9	0001	Main Building	MCS-12A	Classroom 177	05/03/2018	5:23	S - Sink	First Draw	250	
10	0001	Main Building	MCS-12B	Classroom 177	05/03/2018	5:23	S - Sink	Flush	250	
11	0001	Main Building	MCS-13A	Classroom 175	05/03/2018	5:28	S - Sink	First Draw	250	
12	0001	Main Building	MCS-13B	Classroom 175	05/03/2018	5:28	S - Sink	Flush	250	
13	0001	Main Building	MWF-14A	Classroom 175	05/03/2018	5:29	WF - Water Cooler	First Draw	250	
14	0001	Main Building	MWF-14B	Classroom 175	05/03/2018	5:29	WF - Water Cooler	Flush	250	
15	0001	Main Building	MCS-16A	Classroom 173	05/03/2018	5:33	S - Sink	First Draw	250	
16	0001	Main Building	MCS-16B	Classroom 173	05/03/2018	5:33	S - Sink	Flush	250	
17	0001	Main Building	MS-19A	Nurse's office	05/03/2018	5:40	S - Sink	First Draw	250	
18	0001	Main Building	MS-19B	Nurse's office	05/03/2018	5:40	S - Sink	Flush	250	
19	0001	Main Building	MS-20A	Nurse's bathroom	05/03/2018	5:41	S - Sink	First Draw	250	
20	0001	Main Building	MS-20B	Nurse's bathroom	05/03/2018	5:41	S - Sink	Flush	250	
21	0001	Main Building	MS-24A	Classroom 142 bathroom	05/03/2018	5:45	S - Sink	First Draw	250	
22	0001	Main Building	MS-24B	Classroom 142 bathroom	05/03/2018	5:45	S - Sink	Flush	250	
23	0001	Main Building	MS-27A	Classroom 140 bathroom	05/03/2018	5:48	S - Sink	First Draw	250	
24	0001	Main Building	MS-27B	Classroom 140 bathroom	05/03/2018	5:48	S - Sink	Flush	250	
25	0001	Main Building	MCS-54A	Art Room 11	05/03/2018	5:55	S - Sink	First Draw	250	
26	0001	Main Building	MCS-54B	Art Room 11	05/03/2018	5:55	S - Sink	Flush	250	
27	0001	Main Building	MCS-55A	Art Room 11	05/03/2018	5:56	S - Sink	First Draw	250	
28	0001	Main Building	MCS-55B	Art Room 11	05/03/2018	5:56	S - Sink	Flush	250	
29	0001	Main Building	MCS-56A	Art Room 11	05/03/2018	5:57	S - Sink	First Draw	250	
30	0001	Main Building	MCS-56B	Art Room 11	05/03/2018	5:57	S - Sink	Flush	250	
31	0001	Main Building	MCS-59A	Classroom 18	05/03/2018	6:00	S - Sink	First Draw	250	
32	0001	Main Building	MCS-59B	Classroom 18	05/03/2018	6:00	S - Sink	Flush	250	
33	0001	Main Building	MWF-60A	Classroom 18	05/03/2018	6:05	WF - Water Cooler	First Draw	250	
34	0001	Main Building	MWF-60B	Classroom 18	05/03/2018	6:05	WF - Water Cooler	Flush	250	
35	0001	Main Building	MS-74A	Library	05/03/2018	6:07	S - Sink	First Draw	250	
36	0001	Main Building	MS-74B	Library	05/03/2018	6:07	S - Sink	Flush	250	
37	0001	Main Building	MIF	Water Main	05/03/2018	6:20	O - Other	Flush	250	flush off of the incoming water source
38										
39										
40										
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42										
43										
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MP 5/3/18 10:30