



Medford Township Public Schools

137 Hartford Road, Medford, New Jersey 08055
 609-654-6416 Fax 609-654-7436

October 22, 2021

Dear Medford Township School Community:

The NJDOE regulations established in 2017 require extensive testing of all our water sources, including water fountains, sinks with attached fountain drinking bubblers, all general use faucets and utility sinks on an ongoing basis. Depending upon the results of the sampling, remedial measures may include, but are not limited to water flushing, fixture and/or valve replacement, pipe removal and/or general cleaning. We are directed as per the NJBOE regulations to implement immediate remedial measures for any potable water outlet with results greater than the action level of 15 ug/l [ppb] (parts per billion). These may include turning off an outlet, unless it is determined that the location must remain on for non-drinking purposes. In these cases, a sign posted **"Non-potable water only."**

An outline of the testing results are listed below. Based upon the technical guidance developed by the NJDEP, we identified and tested all potable water and food preparation outlets as identified in our sample plan submitted in 2017. Of the 163 samples taken, all but 20 tested below the lead action level established by NJDEP for lead in drinking water of 15 ug/l [ppb] (parts per billion).

When reviewing the attached results, you will notice that many outlets over the action limit are in fact drinking fountains or bubblers. This was not consistent with prior testing and likely due to these outlets not being used since the start of the pandemic. Prolonged periods of inactivity at these outlets gives trace amounts of lead time to seep into drinking water. Under normal circumstances the consistent flow of fresh water would have prevented this from happening. Prior to the start to the 2020-21 school year, in response to the pandemic, each school was outfitted with NO touch water bottle refilling stations, which are also filtered with low lead compliant filters. Students have been encouraged to use these and most conventional water fountains made inoperable. This was to minimize possible spread of SARS-cov2, however, the unintended consequence of this was the accumulation of lead at these unused outlets. These water bottle stations have proven very popular with students and an obvious benefit to public health, so in response to these results you will find the district is expanding the use of these outlets. This will make clean safe drinking water, that much more accessible to students and staff.

The table below identifies all water outlets that test above the 15 ug/l [ppb] (parts per billion) for lead. The actual lead levels and the immediate remedial actions that our district has already taken to remediate the levels of lead at these locations are also listed:

#	Sample Location	First Draw Result in ug/(ppb)	Flush Draw Result in ug/(ppb)	Interim Remedial Action	Basis/Follow Up
1	Allen School Room 2 Bubbler ALLN-DW-RM 2	124D	78.7	Bubbler removed from service	Permanent removal from service

2	Allen School Room 4 Sink ALLN-CS-RM 4	19.9	3.48	Sink removed from service	Label non-potable water only
3	Allen School Room 11 Sink ALLN-CS-RM 11	24.2	2.24	Sink removed from service	Label non-potable water only
4	Allen School GYM Water Cooler ALLN-WC-GYM	18.0		Water Cooler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
5	Chairville School Kitchen – Kettle Filler CHVL-KE-KITCH	124D	6.77	Filler removed from service	Label non-potable water only
6	Cranberry Pines School Room 302 – Bubblers CRAN-DW-RM-302	56.7	5.07	Bubbler removed from service	Permanent removal from service
7	Haines 6 th Grade Center Kitchen – Sink SIX-KC-KITCH	38.8	3.86	Sink removed from service	Label non-potable water only
8	Haines 6 th Grade Center Nurse’s Restroom – Sink SIX-NS-NURSERR	20.7	1.05	Sink removed from service	Label non-potable water only
9	Haines 6 th Grade Center Nurse’s Office - Sink SIX-NS-NURSE	196D	4.16	Sink removed from service	Label non-potable water only
10	Memorial MS Gym – Water Cooler MEM-WC-GYM	40.2		Water Cooler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
11	Memorial MS Girl’s Locker Room – Bubblers MEM-DW-GRLLR	23.8	5.47	Bubbler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
12	Memorial MS Boy’s Locker Room – Bubblers MEM-DW-BOYLR	144D	89.1	Bubbler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
13	Taunton Forge School Hall by Custodial Closet A – Water Cooler TAUN-WC-HALL1	230D		Water Cooler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
14	Taunton Forge School Room 3 – Bubblers TAUN-DW-RM3	58.8	14.9	Bubbler removed from service	Permanent removal from service
15	Taunton Forge School Room 6 – Bubblers TAUN-DW-RM6	18.7	16.5	Bubbler removed from service	Permanent removal from service
16	Taunton Forge School Room 7 – Bubblers TAUN-DW-RM7	40.7	1.53	Bubbler removed from service	Permanent removal from service
17	Taunton Forge School Room 8 – Bubblers TAUN-DW-RM8	17.6	1.57	Bubbler removed from service	Permanent removal from service
18	Taunton Forge School Room 10 – Bubblers TAUN-DW-RM10	15.6	1.38	Bubbler removed from service	Permanent removal from service
19	Taunton Forge School Hall by Music Room – Water Cooler TAUN-WC-HALL5	15.6		Water Cooler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system

20	Taunton Forge School Hall by Gymnasium – Water Cooler TAUN-WC-HALL4	278D	Water Cooler removed from service	Permanent removal from service; replaced with water bottle station and low lead filter system
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How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers, and lakes. Lead enters drinking water primarily because of corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes, and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain higher levels of lead.

Lead in Drinking Water

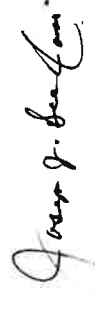
Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person’s total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of person’s total exposure of lead.

For More Information

A copy of our district’s test results are available at our Maintenance/Transportation Center, 28 Branin Road for inspection by staff, parents and the public, and can be viewed between the hours of 8:30 a.m. to 3:00 p.m. The results will also be available on our district website. For more information on reducing lead exposure in your home and the health effects of lead, visit EPA’s website at www.epa.gov/lead or call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

As I previously mentioned, the Medford Township Public School believes in being proactive and takes the safety of students and staff very seriously. We are grateful that our sampling program indicated relatively minor issues and we will be working expeditiously to correct all deficiencies outlined above. The installation of additional Water Bottle Filling Stations, with low lead filter, will be the best way to insure our students and staffs drinking water remains safe and accessible. As always, if you should have any questions/concerns or need additional information do not hesitate to contact me at your earliest convenience.

Sincerely,



Joseph J. Del Rossi, Ed. D.
Superintendent of Schools



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

James Eberts

Epic Environmental Services, LLC

80 Fork Bridge Road

Pittsgrove, NJ 08318

Phone: (856) 205-1077

Fax: (856) 205-0413

9/30/2021

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 9/3/2021. The results are tabulated on the attached data pages for the following client designated project:

**Project ID: NJ DOE
Kirby's Mill Elementary School**

The reference number for these samples is EMSL Order #012110406. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

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<http://www.EMSL.com>

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EMSL Order: 012110406
CustomerID: EPIC62
CustomerPO: NJ-DOE
ProjectID: NJ DOE

Attn: James Eberts

Epic Environmental Services, LLC
80 Fork Bridge Road
Pittsgrove, NJ 08318

Phone: (856) 205-1077

Fax: (856) 205-0413

Received: 9/3/2021 11:30 AM

Project: Kirby's Mill Elementary School

Analytical Results

Client Sample Description	KIRB-FB	Collected:	8/28/2021	Lab ID:	012110406-0001
			9:20:00 AM		
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 16:56

Client Sample Description	KIRB-KC-KITCH	Collected:	8/28/2021	Lab ID:	012110406-0002
			9:22:00 AM		
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.79	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:00

Client Sample Description	KIRB-TL-FACUL	Collected:	8/28/2021	Lab ID:	012110406-0004
			9:25:00 AM		
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	4.26	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:03

Client Sample Description	KIRB-WC-HALL 2	Collected:	8/28/2021	Lab ID:	012110406-0006
			9:27:00 AM		
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:06

Client Sample Description	KIRB-BF-HALL 2	Collected:	8/28/2021	Lab ID:	012110406-0007
			9:27:00 AM		
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:08



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Project: Kirby's Mill Elementary School

Analytical Results

Client Sample Description	KIRB-WC-HALL 3	Collected:	8/28/2021 9:31:00 AM	Lab ID:	012110406-0008
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:09

Client Sample Description	KIRB-WC-HALL 4	Collected:	8/28/2021 9:31:00 AM	Lab ID:	012110406-0009
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:14

Client Sample Description	KIRB-WC-HALL 5	Collected:	8/28/2021 9:34:00 AM	Lab ID:	012110406-0010
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:15

Client Sample Description	KIRB-WC-HALL-6	Collected:	8/28/2021 9:36:00 AM	Lab ID:	012110406-0011
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:17

Client Sample Description	KIRB-SO-MEDIA	Collected:	8/28/2021 9:38:00 AM	Lab ID:	012110406-0012
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.30	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:21



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Received: 9/3/2021 11:30 AM

Project: Kirby's Mill Elementary School

Analytical Results

Client Sample Description	KIRB-SO-MN OFF	Collected:	8/28/2021 9:42:00 AM	Lab ID:	012110406-0014
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:24

Client Sample Description	KIRB-NS-NURSE	Collected:	8/28/2021 9:45:00 AM	Lab ID:	012110406-0016
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS	Lead	10.3	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:27

Client Sample Description	KIRB-NS-NURSERR	Collected:	8/28/2021 9:45:00 AM	Lab ID:	012110406-0018
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS	Lead	3.73	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:33

Client Sample Description	KIRB-WC-HALL 7	Collected:	8/28/2021 9:47:00 AM	Lab ID:	012110406-0020
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:36

Client Sample Description	KIRB-DW-RMA2	Collected:	8/28/2021 9:49:00 AM	Lab ID:	012110406-0021
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS	Lead	4.62	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:42

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80 Fork Bridge Road
Pittsgrove, NJ 08318

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Project: Kirby's Mill Elementary School

Analytical Results

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>		
KIRB-DW-RMA1		8/28/2021 9:53:00 AM	012110406-0023		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:51

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>		
KIRB-DW-RMA3		8/28/2021 9:54:00 AM	012110406-0025		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
METALS					
200.8	Lead	ND	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:54

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>		
KIRB-DW-RMA4		8/28/2021 9:58:00 AM	012110406-0027		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
METALS					
200.8	Lead	2.01	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:56

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>		
KIRB-DW-RMA6		8/28/2021 10:00:00 AM	012110406-0029		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
METALS					
200.8	Lead	4.34	1.00 ppb	9/29/2021 VD	9/29/2021 VD 17:59

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>		
KIRB-DW-RMA5		8/28/2021 10:04:00 AM	012110406-0031		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>	<i>Analysis Date & Analyst</i>
METALS					
200.8	Lead	2.66	1.00 ppb	9/29/2021 VD	9/29/2021 VD 18:02



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Received: 9/3/2021 11:30 AM

Project: Kirby's Mill Elementary School

Analytical Results

Client Sample Description KIRB-DW-RMA7

Collected: 8/28/2021 10:05:00 AM
Lab ID: 012110406-0033

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.85	1.00 ppb	9/27/2021 KG	9/28/2021 JW 13:40

Definitions:

- MDL - method detection limit
- J - Result was below the reporting limit, but at or above the MDL
- ND - Indicates that the analyte was not detected at the reporting limit
- RL - Reporting Limit (Analytical)
- D - Dilution Sample required a dilution which was used to calculate final results