

Tiffany J. Moutis
Superintendent



Fred Knaak
Facilities Manager

Mansfield Township School District
Office of Superintendent
www.mansfieldschool.com
200 Mansfield Road East
Columbus, New Jersey 08022
Phone: 609-298-2037 Ext. 2600

9/14/2021

Mansfield Township School District
John Hydock Elementary School
200 Mansfield Road East
Columbus, NJ 08022

Dear John Hydock Elementary School
Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, Mansfield Township School District tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, Mansfield Township School District will implement immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 $\mu\text{g/l}$ (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" sign will be posted.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within Mansfield Township School District. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 16 samples taken, all but two tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 $\mu\text{g/l}$ [ppb]).

The table below identifies the drinking water outlets that tested above the 15 $\mu\text{g/l}$ for lead, the actual lead level, and what temporary remedial action John Hydock Elementary School has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
WDL01-01 <i>Lab ID: 012108655-0001</i> Boiler Room / Water Meter Hose Bib / Initial	38.5	Posted signage "DO NOT DRINK- SAFE FOR HANDWASHING ONLY".
WDL01-04 <i>Lab ID: 012108655-0002</i> Corridor C101 / Water Cooler / Initial	71.0	Water cooler was taken out of service. Supply line will be flushed out; filter will be changed before re-tested.

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

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 as a result of the 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 fairly high 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 a person's total exposure to lead.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. and are also available on our website at www.mansfieldschool.com/. For

more information about water quality in our schools, contact Fred Knaak at the Buildings and Grounds Department 609-298-2037 x2600.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at **www.epa.gov/lead**, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

Tiffany Moutis
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:

Tim Popp
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

8/12/2021

Phone: (856) 840-8800

Fax: (856) 840-8815

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/30/2021. The results are tabulated on the attached data pages for the following client designated project:

21-356 Mansfield - Hydock School

The reference number for these samples is EMSL Order #012108655. 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.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012108655

CustomerID: TTIE54

CustomerPO: 033226

ProjectID:

Attn: **Tim Popp**
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
 Fax: (856) 840-8815
 Received: 7/30/2021 01:59 PM

Project: 21-356 Mansfield - Hydock School

Analytical Results

Client Sample Description 1 / WDL01-01
 Boiler Room / Water Meter / Initial
Collected: 7/30/2021 6:01:00 AM
Lab ID: 012108655-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	38.5	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:32

Client Sample Description 2 / WDL01-04
 Corridor C101 / Water Cooler / Initial
Collected: 7/30/2021 6:03:00 AM
Lab ID: 012108655-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	71.0	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:34

Client Sample Description 3 / WDL01-05
 Corridor C101 / Water Cooler / Initial
Collected: 7/30/2021 6:06:00 AM
Lab ID: 012108655-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	4.61	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:36

Client Sample Description 4 / WDL01-07
 Kitchen / Sink / Initial
Collected: 7/30/2021 6:07:00 AM
Lab ID: 012108655-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	6.72	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:42

Client Sample Description 5 / WDL01-08
 Kitchen / Sink / Initial
Collected: 7/30/2021 6:09:00 AM
Lab ID: 012108655-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	9.82	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:44

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EMSL Order: 012108655

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Project: 21-356 Mansfield - Hydock School

Analytical Results

Client Sample Description 6 / WDL01-09
Kitchen / Sink / Initial
Collected: 7/30/2021 6:10:00 AM
Lab ID: 012108655-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.59	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:46

Client Sample Description 7 / WDL01-11
Corridor D100 / Water Cooler / Initial
Collected: 7/30/2021 6:14:00 AM
Lab ID: 012108655-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:48

Client Sample Description 8 / WDL01-12
Corridor D100 / Bubbler / Initial
Collected: 7/30/2021 6:15:00 AM
Lab ID: 012108655-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:50

Client Sample Description 9 / WDL01-12A
Corridor D100 / Bottle Filler / Initial
Collected: 7/30/2021 6:15:00 AM
Lab ID: 012108655-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:56

Client Sample Description 10 / WDL01-14
Nurses Office / Sink / Initial
Collected: 7/30/2021 6:18:00 AM
Lab ID: 012108655-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.13	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 20:58

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EMSL Order: 012108655
CustomerID: TTIE54
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Phone: (856) 840-8800
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Received: 7/30/2021 01:59 PM

Project: 21-356 Mansfield - Hydock School

Analytical Results

Client Sample Description 11 / WDL01-15
Nurses Office / Sink / Initial
Collected: 7/30/2021 6:18:00 AM
Lab ID: 012108655-0011

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	7.70	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:00

Client Sample Description 12 / WDL01-17
Corridor A100 / Bubbler / Initial
Collected: 7/30/2021 6:22:00 AM
Lab ID: 012108655-0012

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:07

Client Sample Description 13 / WDL01-17A
Corridor A100 / Bottle Filler / Initial
Collected: 7/30/2021 6:22:00 AM
Lab ID: 012108655-0013

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:09

Client Sample Description 14 / WDL01-19
Corridor A100 / Water Cooler / Initial
Collected: 7/30/2021 6:24:00 AM
Lab ID: 012108655-0014

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:11

Client Sample Description 15 / WDL01-22
Corridor B100 / Water Cooler / Initial
Collected: 7/30/2021 6:26:00 AM
Lab ID: 012108655-0015

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:13

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EMSL Order: 012108655

CustomerID: TTIE54

CustomerPO: 033226

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Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received: 7/30/2021 01:59 PM

Project: 21-356 Mansfield - Hydock School

Analytical Results

Client Sample Description 16 / WDL01-23
Corridor B100 / Water Cooler / Initial

Collected: 7/30/2021 6:28:00 AM

Lab ID: 012108655-0016

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:15

Client Sample Description 17 / BLANK

Collected: 7/30/2021 6:29:00 AM

Lab ID: 012108655-0017

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	8/10/2021 VD	8/10/2021 VD 21:17

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