FOLLOW-UP LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Gerry Mihalitsianos
Hasbrouck Heights BOE
379 Boulevard
Hasbrouck Heights, NJ 07604

SITE INVESTIGATED: Lincoln School
302 Burton Ave
Hasbrouck Heights, NJ 07604

ASSESSMENT BY: Ross Hernandez
Omega Environmental Services, Inc.
280 Huyler Street
South Hackensack, NJ 07606

INVESTIGATION CONDUCTED: 3/29/2022

DATE OF REPORT: 4/14/2022

(Omega Project # 22-1068)

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

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EXECUTIVE SUMMARY:

The Hasbrouck Heights Board of Education requested follow-up lead in water testing of potable water outlets at Lincoln School located at 302 Burton Ave, Hasbrouck Heights, NJ 07604.

Previous Testing (2/2/2022)

On February 2, 2022, Omega performed a full testing of all potable outlets. First draw and flush samples (30 second) were collected at six (6) water fountains and sinks. One (1) first draw sample and the associated flush sample were above 15 µg/L.

See report dated March 18, 2022.

Follow-up Current Testing (3/29/2022)

In order to comply with the NJDEP *Lead in Drinking Water at Schools Facilities (April 2021),* follow-up testing of positive potable outlets was performed on March 29, 2022.

Reportedly the outlets were flushed the day prior to sampling.

School reported that the following outlet is not used. The outlet was not flushed and not tested for both rounds of testing:

- Cold Supply

First draw and flush samples (30 second) were collected at one (1) water cooler.

Results of all first draw and flush samples analyzed were below the Lead and Copper Rule action level of 15 µg/L.

See Section 3 Discussion of Results

Applicable Corrective Action

No corrective action is recommended at this time.

Water Management/Plumbing Plan

A Lead in Water Sampling Plan exists for Lincoln School.

1 RESULTS TABLE:

Sample #	Type	Location	1st draw (FD) or flush (FL)	Lead	
				Results (µg/L)	LCR Action Level (1) (µg/L)
LS 01 FD	Water Chiller	3rd Floor Water Cooler at Room 306	FD	ND	15
LS 02 FL	Water Chiller	3rd Floor Water Cooler at Room 306	FL	ND	15
LS 03 FB	Blank	Field Blank	BL	ND	---

(1) EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.
FD – First Draw Sample
FL – Flush Sample (30 sec)
NA – Not Analyzed

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2 SAMPLING METHODOLOGY:

(First Draw Samples) - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO_3) as a preservative.

(Flush Samples) – After the collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to EMSL Analytical, Inc. in Cinnaminson, NJ for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

Results of all first draw and flush samples analyzed were below the Lead and Copper Rule action level of 15 µg/L.

4 RECOMMENDATIONS:

Short term:

- No corrective action is recommended at this time.

Contact Omega Environmental to discuss specific recommendations.

Long Term:

- If any outlets are not regularly used, or after extended periods without use (such as winter and summer breaks) flush all outlets for a few minutes prior to normal use.
- Repeat full building testing on an annual basis. Generally, this should be performed in August prior to the start of the school season.

A. Lead in Water Laboratory Reports

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Lab**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797

4/13/2022

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/30/2022. The results are tabulated on the attached data pages for the following client designated project:

22-1068 Hasbrouck Heights BOE - Lincoln School

The reference number for these samples is EMSL Order #012205017. 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:

Owen McKenna, 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

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: 012205017
CustomerID: OMEG50
CustomerPO:
ProjectID:

Attn: Lab
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 3/30/2022 09:00 AM

Project: **22-1068 Hasbrouck Heights BOE - Lincoln School**

Analytical Results

Client Sample Description LS 01 FD
3rd Floor Water Cooler at Room 306
Collected: 3/29/2022 9:26:00 AM
Lab ID: 012205017-0001

Method	Parameter	Result	RL	Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS								
200.8	Lead	ND	1.00	µg/L	4/7/2022	JM	4/7/2022 21:23	VD

Client Sample Description LS 02 FL
3rd Floor Water Cooler at Room 306
Collected: 3/29/2022 9:27:00 AM
Lab ID: 012205017-0002

Method	Parameter	Result	RL	Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS								
200.8	Lead	ND	1.00	µg/L	4/7/2022	JM	4/7/2022 21:25	VD

Client Sample Description LS 03 BD
Field Blank
Collected: 3/29/2022 10:35:00 AM
Lab ID: 012205017-0003

Method	Parameter	Result	RL	Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS								
200.8	Lead	ND	1.00	µg/L	4/7/2022	JM	4/7/2022 21:27	VD

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

OrderID: 012205017

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TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

012205017

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Omega Environmental Services	Company Name:	Omega Environmental Services
Contact Name:		Billing Contact:	
Street Address:	280 Huyler Street	Street Address:	280 Huyler Street
City, State, Zip:	South Hackensack, NJ 07606	City, State, Zip:	South Hackensack, NJ 07606
Country:	USA	Country:	USA
Phone:	201-489-8700	Phone:	201-489-8700
Email(s) for Report:	lab@omega-env.com	Email(s) for Invoice:	ap@omega-env.com

Project Information

Project Name/No: 22-1068 Hasbrouck Heights BOE- Lincoln School
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: NJ
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: Ross Hernandez
Sampled By Signature:
No. of Samples in Shipment: 3

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☑ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only, samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☐
*Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☑ PH<2 3/30	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☑
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
Samples begin on the following page.			

Method of Shipment: Pick UP
Sample Condition Upon Receipt:

Relinquished by: Ross Hernandez	Date/Time: 3/29/2022 11:00	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: COURIER	Date/Time: 3/29/22 7:45 pm

Controlled Document - COC-25 Lead R19 4/19/2021

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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3/30/22 9am

(3)a

OrderID: 012205017

EMSL ANALYTICAL, INC.
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Lead Chain of Custody

EMSL Order Number / Lab Use Only: 012205017

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

	Sample Number	Sample Location	Volume / Area	Date / Time Sampled
1	LS 01 FD	3rd Floor Water Cooler at Room 306	250 mL	3/29/2022 9:26
2	LS 02 FL	↓	↓	9:27
3	LS 03 FB	Field Blank.	↓	10:35

Method of Shipment: Pick up

Sample Condition Upon Receipt:

Relinquished by	Date/Time	Received by	Date/Time
Ross Hernandez	3/29/2022 11:00		
Relinquished by	Date/Time	Received by	Date/Time
		ANN CRUCIER	3/29/22 7:45 pm

Controlled Document • COC-25 Lead R18 4/19/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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