



20-21 Wagaraw Road – Bldg. 35E, Fair Lawn, NJ 07410  
PH (973) 636-9145 / FAX (973) 636-9144  
Email: [info@envirovisionconsultants.com](mailto:info@envirovisionconsultants.com)

CLIENT: Linden School District  
PROJECT: Lead in Drinking Water  
ADDRESS: 1014 Bower St, Linden NJ 07036  
Field Technician: Jack Ruegg

Project Number 22-224  
School Number 5  
Report Date: June 30, 2022

As per your request, EnviroVision Consultants, Inc. was contracted by the Linden Public School District to conduct Lead (Pb) in water sampling at School Number 5 on June 11, 2022. The sample locations, in addition to unique sample location codes were determined/assigned by school district personnel. The school district performed the proper flushing of outlets prior to sampling and EnviroVision was instructed to collect only first draw samples for this sampling event. The school district's corresponding flushing logs should be attached to this report.

The facility was closed at the time of sampling in order to prevent occupants from utilizing any water outlets. After flushing, the water in the facility must remain motionless in the plumbing fixtures for a minimum of 8 hours, but no more than 48 hours. Cold water samples were collected in pre-cleaned high-density polyethylene (HDPE) 250mL wide mouth bottles.

The samples were analyzed at EMSL Analytical, Inc. in Cinnaminson, New Jersey \*(NJDEP#03036), accredited in accordance with NELAC (National Environmental Laboratory Accreditation Conference). The analytical method utilized was inductively coupled plasma mass spectrometry ICP-MS (EPA 200.8).

Seventeen samples were collected from School Number 5. In addition, a sample was collected and analyzed, as required, for Quality Assurance purposes.

Results: Twelve of the samples analyzed were either "None Detected" or less than the EPA established threshold for lead in drinking water. However, five of the samples were above the allowable limit established by The United States Environmental Protection Agency (USEPA) of 15 parts per billion (ppb) or ug/L. When a water outlet/faucet meets or exceeds the USEPA threshold, EnviroVision recommends that the outlet/faucet be put out of service until the system can be further evaluated and proper remedial action is achieved.



**SCHOOL NUMBER 5 - LEAD(Pb) in Water Result(s) of Concern**

<b>Outlet ID/Sample Number</b>	<b>Location</b>	<b>Results</b>
SC5-DW-03	Pre-k (A)	32.5 ppb, ug/L
SC5-DW-11	Pre-k (B)	18.4 ppb, ug/L
SC5-DW-12	Room 108	21.8 ppb, ug/L
SC5-WC-14	Outside Room 107	487 ppb, ug/L
SC5-WC-17	Cafeteria	26.0 ppb, ug/L

Note\* 1ppb = 1ug/L

Due to the elevated level in the above-mentioned outlet, we recommend that some or all of the following steps be taken at this time.

- Closure of the affected water outlet(s) until the system can be further evaluated and proper remedial action is achieved.
- Removal and replacement with non-lead containing fixtures.
- Installation of filtration systems.
- Development of a Flushing Program for those taps high in lead and turbidity (this may include automatic flushing systems).
- Contact the local water utility company to obtain information about their corrosion control procedures and how it might affect the District's control plans.
- Permanent closure of outlet(s).

Once the remedial action(s) are complete, follow up testing is required to ensure alterations/replacement to plumbing fixtures has lowered the amount of lead to acceptable levels.

Should you have any questions, or if we could be of any further assistance, please feel free to contact our office. EnviroVision looks forward to providing you with the service and attention to detail you have come to expect from us.

Sincerely,  
EnviroVision Consultants, Inc.

Cathy DiNardo

Cathy DiNardo, Project Manager  
Attached: Lab results, associated data sheets



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

**Frederick Larson  
EnviroVision Consultants, Inc  
20-21 Wagaraw Rd  
Bldg 35E  
Fair Lawn, NJ 07410**

7/11/2022

Phone: (973) 636-9145

Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/11/2022. The results are tabulated on the attached data pages for the following client designated project:

**22-224 Linden School #5**

The reference number for these samples is EMSL Order #012209556. 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

Report amended 07/11/2022 12:49:14 Replaces initial report from 06/30/2022 12:44:29 Sample description corrected for sample -0014 at the customer's request.

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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012209556  
 CustomerID: RAMA51  
 CustomerPO:  
 ProjectID:

Attn: **Frederick Larson**  
**EnviroVision Consultants, Inc**  
**20-21 Wagaraw Rd**  
**Bldg 35E**  
**Fair Lawn, NJ 07410**

Phone: (973) 636-9145  
 Fax: (973) 636-9144  
 Received: 06/15/22 9:00 AM

Project: 22-224 Linden School #5

**Analytical Results**

**Client Sample Description** SC5-WC-01  
 Outside Library Closet  
**Collected:** 6/11/2022 8:08:00 AM  
**Lab ID:** 012209556-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	2.63	1.00 µg/L	6/27/2022 KG	06/27/22 21:30 KG

**Client Sample Description** SC5-WC-02  
 Outside Faculty Room  
**Collected:** 6/11/2022 8:09:00 AM  
**Lab ID:** 012209556-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	2.66	1.00 µg/L	6/27/2022 KG	06/27/22 21:35 KG

**Client Sample Description** SC5-DW-03  
 Pre-k #A  
**Collected:** 6/11/2022 8:10:00 AM  
**Lab ID:** 012209556-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	32.5	1.00 µg/L	6/27/2022 KG	06/27/22 21:36 KG

**Client Sample Description** SC5-WF-04  
 Outside gym  
**Collected:** 6/11/2022 8:11:00 AM  
**Lab ID:** 012209556-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	5.40	1.00 µg/L	6/27/2022 KG	06/27/22 21:38 KG

**Client Sample Description** SC5-KS-05  
 Kitchen  
**Collected:** 6/11/2022 8:16:00 AM  
**Lab ID:** 012209556-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.20	1.00 µg/L	6/27/2022 KG	06/27/22 21:39 KG

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EMSL Order: 012209556  
 CustomerID: RAMA51  
 CustomerPO:  
 ProjectID:

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Project: 22-224 Linden School #5

**Analytical Results**

**Client Sample Description** SC5-FP-06 **Collected:** 6/11/2022 **Lab ID:** 012209556-0006  
 Kitchen 8:17:00 AM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	7.87	1.00 µg/L	6/27/2022 KG	06/27/22 21:41 KG

**Client Sample Description** SC5-FP-07 **Collected:** 6/11/2022 **Lab ID:** 012209556-0007  
 Kitchen 8:17:00 AM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	3.50	1.00 µg/L	6/27/2022 KG	06/27/22 21:49 KG

**Client Sample Description** SC5-WF-08 **Collected:** 6/11/2022 **Lab ID:** 012209556-0008  
 Gym Locker Room 8:19:00 AM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	6/27/2022 KG	06/27/22 21:50 KG

**Client Sample Description** SC5-WF-09 **Collected:** 6/11/2022 **Lab ID:** 012209556-0009  
 Gym Locker Room 8:29:00 AM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	10.1	1.00 µg/L	6/27/2022 KG	06/27/22 21:52 KG

**Client Sample Description** SC5-DW-10 **Collected:** 6/11/2022 **Lab ID:** 012209556-0010  
 Room D 8:22:00 AM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.01	1.00 µg/L	6/27/2022 KG	06/27/22 21:53 KG

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EMSL Order: 012209556  
 CustomerID: RAMA51  
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 ProjectID:

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 Received: 06/15/22 9:00 AM

Project: 22-224 Linden School #5

**Analytical Results**

**Client Sample Description** SC5-DW-11 Pre-k B **Collected:** 6/11/2022 8:25:00 AM **Lab ID:** 012209556-0011

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	18.4	1.00 µg/L	6/27/2022 KG	06/27/22 21:55 KG

**Client Sample Description** SC5-DW-12 Room 108 **Collected:** 6/11/2022 8:28:00 AM **Lab ID:** 012209556-0012

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	21.8	1.00 µg/L	6/22/2022 EM	06/23/22 12:17 JW

**Client Sample Description** SC5-DW-13 Room 109 **Collected:** 6/11/2022 8:30:00 AM **Lab ID:** 012209556-0013

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	4.16	1.00 µg/L	6/27/2022 KG	06/27/22 22:00 KG

**Client Sample Description** SC5-WC-14 Outside Room 107 **Collected:** 6/11/2022 8:31:00 AM **Lab ID:** 012209556-0014

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	487 D	10.0 µg/L	6/22/2022 EM	06/23/22 13:34 JW

**Client Sample Description** SC5-NS-15 Nurse Room **Collected:** 6/11/2022 8:33:00 AM **Lab ID:** 012209556-0015

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	2.70	1.00 µg/L	6/27/2022 KG	06/27/22 22:04 KG



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EMSL Order: 012209556  
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Phone: (973) 636-9145  
Fax: (973) 636-9144  
Received: 06/15/22 9:00 AM

Project: 22-224 Linden School #5

**Analytical Results**

**Client Sample Description** SC5-WC-16  
Outside 208  
**Collected:** 6/11/2022  
8:36:00 AM  
**Lab ID:** 012209556-0016

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	11.3	1.00 µg/L	6/27/2022 KG	06/27/22 22:06 KG

**Client Sample Description** SC5-WC-17  
Cafeteria  
**Collected:** 6/11/2022  
8:38:00 AM  
**Lab ID:** 012209556-0017

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	26.0	1.00 µg/L	6/27/2022 KG	06/27/22 22:07 KG

**Client Sample Description** SC5-BLANK  
**Collected:** 6/11/2022  
8:42:00 AM  
**Lab ID:** 012209556-0018

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	6/27/2022 KG	06/27/22 22:09 KG

**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

Pb 6/29/22 JD



**Lead Chain of Custody**

EMSL Order Number / Lab Use Only

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

012209556

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

EMSL ANALYTICAL, INC.  
TESTING LABS • PRODUCTS • TRAINING

Customer ID: RAMA51		Billing ID: RAMA51	
Company Name: EnviroVision Consultants, Inc.		Company Name: EnviroVision Consultants, Inc.	
Contact Name: Frederick Larson		Billing Contact: Frederick Larson	
Street Address: 20-21 Wagaraw Rd, Bldg 35E		Street Address: 20-21 Wagaraw Rd, Bldg 35E	
City, State, Zip: Fair Lawn, NJ, 07410	Country: US	City, State, Zip: Fair Lawn, NJ, 07410	Country: US
Phone: 973-636-9145		Phone: 973-636-9145	
Email(s) for Report: info@envirovisionconsultants.com		Email(s) for Invoice: info@envirovisionconsultants.com	

**Project Information**

Project Name/No: 22-224 Linden School #5

EMSL LIMS Project ID (if applicable, EMSL will provide)

US State where samples collected: \_\_\_\_\_ State of Connecticut (CT) must select project location:  Commercial (Taxable)  Residential (Non-Taxable)

Sampled By Name: Jack Rugg *Jack Rugg* Sampled By Signature: *Jack Rugg* No. of Samples in Shipment: \_\_\_\_\_

**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
CHPS <input type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm <sup>2</sup> *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	1.0µg/wipe	<input type="checkbox"/>
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLIC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO3 <input type="checkbox"/> PH<2	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input checked="" type="checkbox"/> Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input checked="" type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
1 SCS-WC-01	Outside library closet	250ml	8:08
2 SCS-WC-02	Outside Faculty room		8:09
3 SCS-DW-03	Pre-k #A		8:10
4 SCS-WF-04	outside gym		8:11
5 SCS-KS-05	Kitchen		8:16

Method of Shipment: \_\_\_\_\_ Sample Condition Upon Receipt: \_\_\_\_\_

Relinquished by: Jack Rugg Date/Time: 6/14/22 Received by: *MAJ* Courier Date/Time: 6/14/22 8:40pm

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: *Julyn* Date/Time: 6/15/22 9M

Controlled Document - CQC-26 Lead R17 05/09/2022 \*9010C 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.

Page 1 of 2 Date 6/15/22 11:30AM JD



