



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

CLIENT: Linden Public Schools
PROJECT: Lead in Drinking Water
ADDRESS: 128 W. ST. Georges Ave, Linden, NJ 07036
Field Technician: Leonardo Bitondo

Project Number 22-224
H.S. Academy Building
Report Date: July 1, 2022

As per your request, EnviroVision Consultants, Inc. was contracted by the Linden Public School District to conduct Lead (Pb) in drinking water sampling at the High School Academy Building 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 the 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).

Results: Twenty-three samples were collected from the High School Academy Building. In addition, a blank sample was collected and analyzed, as required, for Quality Assurance purposes.

Twenty-one of the samples analyzed were either "None Detected" or below the United States Environmental Protection Agency (US EPA) threshold for lead in drinking water. However, two of the samples were above the US EPA threshold of 15 parts per billion (ppb) or ug/L. The action limit or threshold has been further defined for compliance by the New Jersey Department of Environmental Protection Agency (NJ DEP) as an amount greater than 15.5 ug/L (1ug/L=1ppb). 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.



HS ACADEMY BUILDING- LEAD(Pb) in Water Result(s) of Concern

Outlet ID/Sample Number	Location	Results
AWC06	Across Teachers Room	19.4 ppb, ug/L
AWC15	IT Room	191 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**

7/1/2022

Phone: (973) 636-9145

Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/15/2022. The results are tabulated on the attached data pages for the following client designated project:

22-224 Linden Academy

The reference number for these samples is EMSL Order #012209533. 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

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: 012209533

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: 6/15/2022 09:00 AM

Project: 22-224 Linden Academy

Analytical Results

Client Sample Description 01 AWC01
Room 111A
Collected: 6/11/2022 9:30:00 AM
Lab ID: 012209533-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/29/2022 KG 00:14

Client Sample Description 02 AWC02
Room 109A
Collected: 6/11/2022 9:33:00 AM
Lab ID: 012209533-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/29/2022 KG 00:16

Client Sample Description 03 AWC03
Room 107A
Collected: 6/11/2022 9:34:00 AM
Lab ID: 012209533-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/29/2022 KG 00:18

Client Sample Description 04 AKSO4
Room 107A
Collected: 6/11/2022 9:35:00 AM
Lab ID: 012209533-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/29/2022 KG 00:19

Client Sample Description 05 AWF05
Room 105A
Collected: 6/11/2022 9:37:00 AM
Lab ID: 012209533-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:37

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Phone: (973) 636-9145
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 Received: 6/15/2022 09:00 AM

Project: 22-224 Linden Academy

Analytical Results

Client Sample Description		06 AWC06 Across Teacher Room	Collected:	6/11/2022 9:39:00 AM	Lab ID:	012209533-0006	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst		
METALS							
200.8	Lead	19.4	1.00 µg/L	6/29/2022 KG	6/29/2022 16:41	KG	
Client Sample Description		07 ATL07 Teacher Room	Collected:	6/11/2022 9:40:00 AM	Lab ID:	012209533-0007	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst		
METALS							
200.8	Lead	15.4	1.00 µg/L	6/29/2022 KG	6/29/2022 16:43	KG	
Client Sample Description		08 ANS08 Nurse Room	Collected:	6/11/2022 9:41:00 AM	Lab ID:	012209533-0008	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst		
METALS							
200.8	Lead	10.6	1.00 µg/L	6/29/2022 KG	6/29/2022 16:44	KG	
Client Sample Description		09 AWC09 Hallway Room 123A	Collected:	6/11/2022 9:43:00 AM	Lab ID:	012209533-0009	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst		
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 16:46	KG	
Client Sample Description		10 AWC09A Hallway Room 123A	Collected:	6/11/2022 9:45:00 AM	Lab ID:	012209533-0010	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst		
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 16:47	KG	

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Fair Lawn, NJ 07410

Phone: (973) 636-9145
Fax: (973) 636-9144
Received: 6/15/2022 09:00 AM

Project: 22-224 Linden Academy

Analytical Results

Client Sample Description 11 AWC10 Across Office		Collected: 6/11/2022 9:46:00 AM		Lab ID: 012209533-0011	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.07	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:49
Client Sample Description 12 AWC11 Room 103A		Collected: 6/11/2022 9:47:00 AM		Lab ID: 012209533-0012	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:54
Client Sample Description 13 AWF12 Room 114A		Collected: 6/11/2022 9:50:00 AM		Lab ID: 012209533-0013	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:55
Client Sample Description 14 AS13 Room 113A		Collected: 6/11/2022 9:53:00 AM		Lab ID: 012209533-0014	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:57
Client Sample Description 15 AWC14 Room 113A		Collected: 6/11/2022 9:55:00 AM		Lab ID: 012209533-0015	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 16:58

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Phone: (973) 636-9145
 Fax: (973) 636-9144
 Received: 6/15/2022 09:00 AM

Project: 22-224 Linden Academy

Analytical Results

Client Sample Description 16 AWC15 IT Room		Collected: 6/11/2022 9:58:00 AM		Lab ID: 012209533-0016	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	191 D	5.00 µg/L	6/22/2022 EM	6/23/2022 JW 13:36
Client Sample Description 17 AWC16 Outside Room 223A		Collected: 6/11/2022 10:00:00 AM		Lab ID: 012209533-0017	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 17:03
Client Sample Description 18 AWC16A Outside Room 223A		Collected: 6/11/2022 10:01:00 AM		Lab ID: 012209533-0018	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 17:05
Client Sample Description 19 AWC18 Outside Room 202A		Collected: 6/11/2022 10:04:00 AM		Lab ID: 012209533-0019	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.12	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 17:06
Client Sample Description 20 AWC19 Outside Room 323A		Collected: 6/11/2022 10:07:00 AM		Lab ID: 012209533-0020	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/29/2022 KG	6/29/2022 KG 17:08

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EMSL Order: 012209533

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Phone: (973) 636-9145
 Fax: (973) 636-9144
 Received: 6/15/2022 09:00 AM

Project: 22-224 Linden Academy

Analytical Results

Client Sample Description		21 AWC19A Outside Room 323A	Collected:	6/11/2022 10:09:00 AM	Lab ID:	012209533-0021	
Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022	KG	6/29/2022 17:12	KG
Client Sample Description		22 AWC21 Outside Room 392A	Collected:	6/11/2022 10:11:00 AM	Lab ID:	012209533-0022	
Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022	KG	6/29/2022 17:14	KG
Client Sample Description		23 AWC22 Room 322A	Collected:	6/11/2022 10:15:00 AM	Lab ID:	012209533-0023	
Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022	KG	6/29/2022 17:15	KG
Client Sample Description		24 AWCBLANK	Collected:	6/11/2022 10:20:00 AM	Lab ID:	012209533-0024	
Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst	
METALS							
200.8	Lead	ND	1.00 µg/L	6/29/2022	KG	6/29/2022 17:17	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



EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: Cinnaminson.LeadLab@emsl.com

012209533

Customer Information	Customer ID	RAMA51		Billing Information	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 Academy		Purchase Order
EMSL LIMS Project ID (If applicable, EMSL will provide)	US State where samples collected:	State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)	

Sampled By Name:	Sampled By Signature:	No. of Samples in Shipment
------------------	-----------------------	----------------------------

Turn-Around-Time (TAT)	
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 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 <input type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input type="checkbox"/>
*Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-8010D*	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	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
If no box is checked, non-ASTM Wipe is assumed	SW 846-8010D	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 846-8010D*	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 846-8010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-8010D*	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 846-8010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	SW 846-8010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Unpreserved	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Preserved with HNO ₃ <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input checked="" type="checkbox"/>
Unpreserved	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Preserved with HNO ₃ <input type="checkbox"/> PH<2				<input type="checkbox"/>
TSP/SPM Filter				<input type="checkbox"/>
Other:				<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
1 AWCO1	Rm 111A	255mL	6/11/22 9:30
2 AWCO2	Rm 109A		9:33
3 AWCO3	Rm 107A		9:34
4 AKSO4	Rm 107A		9:35
5 AWFOS	Rm 105A		9:37

Method of Shipment	Sample Condition Upon Receipt
Relinquished by: <i>[Signature]</i>	Received by: <i>Ann Courier</i>
Date/Time: 6/11/22	Date/Time: 6/14/22 8:40 pm
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Date/Time: 6/15/22	Date/Time: 6/15/22 9:15

Controlled Document - COC-25 Lead R17 05/09/2022

*010C 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.



EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

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

PHONE: (800) 220-3675

EMAIL: CinneminsonLeadLab@gmail.com

012209533

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.)

Academy School

[illegible]

Controlled Document - COC-25 Lead R17 05/09/2022

☒ **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.