



20-21 Wagaraw Road – Bldg. 35E, Fair Lawn, NJ 07410
PH (973) 636-9145 FAX (973) 636-9144
Email: Envirovision@optonline.net

CLIENT: Scotch Plains – Fanwood School District Project No. 22-366
PROJECT: Lead (Pb) in Water Sampling Brunner Elementary School
ADDRESS: 721 Westfield Rd, Scotch Plains, NJ 07076
FIELD TECHNICIAN(S) Jordan Pryske
REPORT DATE: August 24, 2022

As per your request, EnviroVision Consultants, Inc. was contracted by Scotch Plains – Fanwood School District to conduct Lead (Pb) in water sampling at the Brunner Elementary School on August 11, 2022. The sample locations, in addition to a unique sample location code was 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.

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).

Two samples were collected from the Brunner Elementary School. These two water outlets were previously sampled and above the EPA established threshold for Lead in Drinking Water. A blank sample was also collected as required.

Results: One of the two samples analyzed was less than the EPA established threshold for lead in drinking water of 15 parts per billion (ppb). The action level has been further defined for compliance by the New Jersey Department of Environmental Protection Agency as an amount greater than or equal to 15.5 ug/L (1ug/L = 1ppb). However, one of the samples was still above the action level. When a water outlet/faucet meets or exceeds the USEPA/NJDEP threshold, EnviroVision recommends that the outlet/faucet be immediately put out of service until the system can be further evaluated and proper remedial action is achieved.



BRUNNER ELEMENTARY SCHOOL – LEAD (Pb) in Water Results of Concern

Outlet ID/Sample Number	Location	Results
BRDW-FL-1-124	Classroom 124	36.4ug/L (ppb)

Note: 1 ug/L = 1ppb

Due to the elevated levels in the above outlets, we recommend some or all of the following steps be taken at this time;

- Closure of the affected water outlet until the system can be further evaluated and proper remedial action is achieved.
- Removal and replacement with non-containing lead 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.

I have also enclosed documents with detailed steps from the New Jersey Department of Environmental Protection regarding notifications that must be made, posting of results, and initial and long-term remedial requirements.

If 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**

8/18/2022

Phone: (973) 636-9145

Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/12/2022. The results are tabulated on the attached data pages for the following client designated project:

22-366 Brunner Elementary School

The reference number for these samples is EMSL Order #012211974. 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: 012211974

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: 8/12/2022 09:00 AM

Project: 22-366 Brunner Elementary School

Analytical Results

Client Sample Description		BRDW-FL-1-124 ROOM 124	Collected:		8/11/2022 7:55:00 AM	Lab ID:		012211974-0001	
Method	Parameter		Result	RL Units		Prep Date & Analyst		Analysis Date & Analyst	
METALS									
200.8	Lead		36.4	1.00 µg/L		8/15/2022	KC	8/16/2022 18:03	JW
Client Sample Description		BRDW-FL2-208 ROOM 208	Collected:		8/11/2022 7:57:00 AM	Lab ID:		012211974-0002	
Method	Parameter		Result	RL Units		Prep Date & Analyst		Analysis Date & Analyst	
METALS									
200.8	Lead		2.80	1.00 µg/L		8/15/2022	KG	8/15/2022 13:22	KG
Client Sample Description		BRDW-BLANK BLANK	Collected:		8/11/2022 8:00:00 AM	Lab ID:		012211974-0003	
Method	Parameter		Result	RL Units		Prep Date & Analyst		Analysis Date & Analyst	
METALS									
200.8	Lead		ND	1.00 µg/L		8/15/2022	KG	8/15/2022 13:26	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 Order Number / Lab Use Only

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsj.com


EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

012211974

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

Project Information	
Project Name/No:	22-366 Brunner Elementary School
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)
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Sampled By Name: Jordan Prysko	Sampled By Signature: 	No. of Samples in Shipment
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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; sample 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 *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"/>
	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>
AIR	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"/>
TTLC	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	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Unpreserved <input type="checkbox"/>	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 <input checked="" type="checkbox"/> 				
Preserved with HNO ₃ <input type="checkbox"/> PH<2				
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
BROW-FL-1-1241	Room 1241	250ml	8/11/22 0755
BROW-FL2-208	Room 208	↓	8/11/22 0757
BROW-BLANK	Blank	↓	8/11/22 0800

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: J. Pysko	Date/Time:	Received by: (signature) (WT)	Date/Time: 8-11-22 11
Relinquished by:	Date/Time:	Received by: CPE	Date/Time: 8/11/22 8:45 PM

Controlled Document - COC-25 Lead R17 03/09/2022

*5010C 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.

HNO₃ added PL
9:10 am 8/12/22

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Submission of samples to EMSL Analytical, Inc. constitutes
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