EnviroVision Consultants, Inc.
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 Coles Elementary School
ADDRESS: 16 Kevin Road, Scotch Plains, NJ 07076
FIELD TECHNICIAN(S) Jordan Prysko
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 Coles Elementary School on August 11, 2021. 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).

Eight samples were collected from Coles Elementary School. These eight water outlets were previously sampled and were above the Action Level for Lead in Drinking Water. A blank sample was also collected as required.

Results: Eight of the eleven samples analyzed were either "None Detected" or 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, three of the samples analyzed are 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.

EnviroVision Consultants, Inc.

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

Outlet ID/Sample Number	Location	Results
CO.DW.FL-1-120	Classroom 120	22.6 ug/L (ppb)
CO.DW.FL-1-138	Classroom 138	31.5 ug/L (ppb)
CO.DW.FL-1-144	Classroom 144	20.5 ug/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
Phone: (973) 636-9145
Fax: (973) 636-9144

8/19/2022

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 Coles Elementary School

The reference number for these samples is EMSL Order #012211970. 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: 012211970
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 Coles Elementary School**

Analytical Results

Client Sample Description CO.DW.FL-1-110 Room 110 ***Collected:*** 8/11/2022 7:01:00 AM ***Lab ID:*** *012211970-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.22	1.00	µg/L	8/16/2022 KG	8/16/2022 09:30 KG

Client Sample Description CO.DW.FL-1-111 Room 111 ***Collected:*** 8/11/2022 7:04:00 AM ***Lab ID:*** *012211970-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.56	1.00	µg/L	8/16/2022 KG	8/16/2022 09:35 KG

Client Sample Description CO.DW.FL-1-112 Room 112 ***Collected:*** 8/11/2022 7:06:00 AM ***Lab ID:*** *012211970-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	6.77	1.00	µg/L	8/16/2022 KG	8/16/2022 09:36 KG

Client Sample Description CO.DW.FL-1-118 Room 118 ***Collected:*** 8/11/2022 7:08:00 AM ***Lab ID:*** *012211970-0004*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	14.4	1.00	µg/L	8/16/2022 KG	8/16/2022 09:38 KG

Client Sample Description CO.DW.FL-1-120 Room 120 ***Collected:*** 8/11/2022 7:10:00 AM ***Lab ID:*** *012211970-0005*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	22.6	1.00	µg/L	8/16/2022 KG	8/16/2022 09:39 KG

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: 012211970
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 Coles Elementary School**

Analytical Results

Client Sample Description CO.DW.FL-1-135 Room 135 ***Collected:*** 8/11/2022 7:14:00 AM ***Lab ID:*** *012211970-0006*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.04	1.00	µg/L	8/16/2022 KG	8/16/2022 09:44 KG

Client Sample Description CO.DW.FL-1-137 Room 137 ***Collected:*** 8/11/2022 7:16:00 AM ***Lab ID:*** *012211970-0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.53	1.00	µg/L	8/16/2022 KG	8/16/2022 09:46 KG

Client Sample Description CO.DW.FL-1-138 Room 138 ***Collected:*** 8/11/2022 7:18:00 AM ***Lab ID:*** *012211970-0008*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	31.5	1.00	µg/L	8/16/2022 KG	8/16/2022 09:47 KG

Client Sample Description CO.DW.FL-1-141 Room 141 ***Collected:*** 8/11/2022 7:20:00 AM ***Lab ID:*** *012211970-0009*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.67	1.00	µg/L	8/16/2022 KG	8/16/2022 09:49 KG

Client Sample Description CO.DW.FL-1-142 Room 142 ***Collected:*** 8/11/2022 7:22:00 AM ***Lab ID:*** *012211970-0010*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.40	1.00	µg/L	8/16/2022 KG	8/16/2022 09:50 KG

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:	012211970
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 Coles Elementary School**

Analytical Results

Client Sample Description CO.DW.FL-1-144 Room 144 ***Collected:*** 8/11/2022 7:22:00 AM ***Lab ID:*** *012211970-0011*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	20.5	1.00	µg/L	8/16/2022 KG	8/16/2022 09:52 KG

Client Sample Description CO.BLANK Blank ***Collected:*** 8/11/2022 7:25:00 AM ***Lab ID:*** *012211970-0012*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	8/16/2022 KG	8/16/2022 09:56 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

OrderID: 012211970

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

012211970

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

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

Customer Information		Billing Information	
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	City, State, Zip:	Fair Lawn, NJ, 07410
Country:	US	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:	22-366 Coles Elementary 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:	Jordan Prysko
Sampled By Signature:	J Prysko
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
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *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)	☐
	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 *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	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 Unpreserved ☑ Preserved with HNO3 ☐ PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
	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
①	CO.DW.FL-1-110	Room 110	200mL	8/11/22 0701
②	CO.DW.FL-1-111	Room 111		8/11/22 0704
③	CO.DW.FL-1-112	Room 112		8/11/22 0706
④	CO.DW.FL-1-118	Room 118		8/11/22 0708
⑤	CO.DW.FL-1-120	Room 120		8/11/22 0710

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: J. Prysko	Date/Time:	Received by: (MD)	Date/Time: 8.11.22 @ 11:11am
Relinquished by:	Date/Time:	Received by: CRC 8/11/22	Date/Time: 845 pm

Controlled Document - COC-26 Lead R17 05/06/2022

*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.

HNO3 added 9.12 am A 8/12/22

Ellyn 8/12/22 9am

OrderID: 012211970

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Codes ES

Lead Chain of Custody

EMSL Order Number / Lab Use Only

012211970

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
⑥	CO.DW.FL-1-135	Room 135	250mL	8/11/20 0714
⑦	CO.DW.FL-1-137	Room 137	"	8/11/20 0716
⑧	CO.DW.FL-1-138	Room 138		8/11/20 0718
⑨	CO.DW.FL-1-141	Room 141		8/11/20 0720
⑩	CO.DW.FL-1-142	Room 142		8/11/20 0720
⑪	CO.DW.FL-1-144	Room 144		8/11/20 0720
⑫	CO-BLANK	Blank		8/11/20 0725

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: J. Ryska	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

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.)