



**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](mailto:Envirovision@optonline.net)

CLIENT: Garfield School District  
PROJECT: Lead in Drinking Water  
ADDRESS: 175 Lanza Avenue, Garfield, NJ 07026  
Field Technician: Leonardo Bitondo

Project Number 22-106  
Garfield Middle School  
Report Date: June 15, 2022

As per your request, EnviroVision Consultants, Inc. was contracted by Garfield Public School District to conduct Lead (Pb) in water sampling at the Garfield Middle School on May 21, 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.

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).

Seven samples were collected from the Garfield Middle School. An additional sample was collected, as required, for Quality Assurance purposes.

Results: Six of the samples analyzed were either "None Detected" or less than the EPA established threshold for lead in drinking water. However, one of the samples was 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.



**GARFIELD MIDDLE SCHOOL - LEAD(Pb) in Water Results of Concern**

<b>Outlet ID/Sample Number</b>	<b>Location</b>	<b>Results</b>
5-MS-S	Kitchen	16.4 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: **EnviroVision Consultants, Inc.**  
**EnviroVision Consultants, Inc**  
**20-21 Wagaraw Rd**  
**Bldg 35E**  
**Fair Lawn, NJ 07410**

6/13/2022

Phone: (973) 636-9145  
Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/28/2022. The results are tabulated on the attached data pages for the following client designated project:

**20-106 Garfield Public Schools - Garfield Middle School**

The reference number for these samples is EMSL Order #012208439. 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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012208439  
 CustomerID: RAMA51  
 CustomerPO:  
 ProjectID:

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

Phone: (973) 636-9145  
 Fax: (973) 636-9144  
 Received: 5/24/2022 09:00 AM

Project: 20-106 Garfield Public Schools - Garfield Middle School

**Analytical Results**

*Client Sample Description* 2-MS-S *Collected:* 5/21/2022 *Lab ID:* 012208439-0001  
 Kitchen 7:48:00 AM

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date &amp; Analyst</i>	<i>Analysis Date &amp; Analyst</i>
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 10:09 VD
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*Client Sample Description* 3-MS-S *Collected:* 5/21/2022 *Lab ID:* 012208439-0002  
 Kitchen 7:50:00 AM

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date &amp; Analyst</i>	<i>Analysis Date &amp; Analyst</i>
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 10:14 VD
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*Client Sample Description* 4-MS-S *Collected:* 5/21/2022 *Lab ID:* 012208439-0003  
 Kitchen 7:51:00 AM

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date &amp; Analyst</i>	<i>Analysis Date &amp; Analyst</i>
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**METALS**

200.8	Lead	4.72	1.00 µg/L	6/7/2022 VD	6/8/2022 10:15 VD
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*Client Sample Description* 5-MS-S *Collected:* 5/21/2022 *Lab ID:* 012208439-0004  
 Kitchen 7:52:00 AM

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date &amp; Analyst</i>	<i>Analysis Date &amp; Analyst</i>
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**METALS**

200.8	Lead	16.4	1.00 µg/L	6/7/2022 VD	6/8/2022 10:20 VD
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*Client Sample Description* 6-MS-S *Collected:* 5/21/2022 *Lab ID:* 012208439-0005  
 Kitchen 7:57:00 AM

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date &amp; Analyst</i>	<i>Analysis Date &amp; Analyst</i>
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 10:22 VD
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**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: 012208439  
 CustomerID: RAMA51  
 CustomerPO:  
 ProjectID:

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

Phone: (973) 636-9145  
 Fax: (973) 636-9144  
 Received: 5/24/2022 09:00 AM

Project: 20-106 Garfield Public Schools - Garfield Middle School

**Analytical Results**

**Client Sample Description** 71-MS-DS Kitchen **Collected:** 5/21/2022 8:00:00 AM **Lab ID:** 012208439-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 04:53 VD
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**Client Sample Description** 1-MS-IC Kitchen **Collected:** 5/21/2022 8:01:00 AM **Lab ID:** 012208439-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 04:54 VD
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**Client Sample Description** MS-Blank Blank **Collected:** 5/21/2022 8:02:00 AM **Lab ID:** 012208439-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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**METALS**

200.8	Lead	ND	1.00 µg/L	6/7/2022 VD	6/8/2022 04:56 VD
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**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



### 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: CinnaminsonLeadLab@emsl.com

EMSL ANALYTICAL, INC.  
TESTING LABS • PRODUCTS • TRAINING

OF 012208439

<b>Customer Information</b> Customer ID: Company Name: <b>EnviroVision Consultants, Inc</b> Contact Name: <b>EnviroVision Consultants, Inc</b> Street Address: <b>20-21 Wagaraw Rd Bldg 35E</b> City, State, Zip: <b>Fair Lawn, NJ 07410</b> Country: <b>US</b> Phone: <b>973-636-9145</b> Email(s) for Report: <b>info@envirovisionconsultants.com</b>	<b>Billing Information</b> Billing ID: Company Name: <b>EnviroVision Consultants, Inc</b> Billing Contact: <b>EnviroVision Consultants, Inc</b> Street Address: <b>20-21 Wagaraw Rd Bldg 35E</b> City, State, Zip: <b>Fair Lawn, NJ 07410</b> Country: <b>US</b> Phone: <b>973-636-9145</b> Email(s) for Invoice: <b>info@envirovisionconsultants.com</b>
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<b>Project Information</b>	
Project Name/No: <b>22-106 Garfield Public Schools - Garfield Middle school</b>	Purchase Order:
EMSL LIMS Project ID: (if applicable, EMSL will provide)	US State where samples collected: <b>NJ</b> State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
Sampled By Name: <b>Leo Biorde</b>	Sampled By Signature: <i>[Signature]</i> 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 <input type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm <sup>2</sup>	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input type="checkbox"/>
*Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>
	NIOSH 7092	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	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
*If no box is checked, non-ASTM Wipe is assumed	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	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 <sub>3</sub> <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.6	ICP-MS	0.001 mg/L (ppm)	<input checked="" type="checkbox"/>
Unpreserved <input checked="" type="checkbox"/>	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Preserved with HNO <sub>3</sub> <input type="checkbox"/> PH<2	Other:			<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
1 2-MS-S	Kitchen	250 mL	5/21/22 748
2 3-MS-S	Kitchen	250 mL	5/21/22 750
3 4-MS-S	Kitchen	↓	751
4 5-MS-S	Kitchen	↓	752
5 6-MS-S	Kitchen	↓	757

Method of Shipment: <b>Prep off</b>	Sample Condition Upon Receipt: <b>HNO<sub>3</sub> added 5/24/22 805 of</b>
Relinquished by: <i>[Signature]</i>	Date/Time: <b>5-23-22 0205</b>
Relinquished by: <b>NEW COURIER</b>	Date/Time: <b>5/23/22 8:05pm</b>



### Lead Chain of Custody

EMSL Order Number / Lab Use Only

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

EMSL ANALYTICAL, INC.  
TESTING LABS • PRODUCTS • TRAINING

012208439

PHONE: (800) 220-3676

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.)

*Garfield Middle school*

*6*  
*7*  
*8*

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
<i>71-MS-DS</i>	<i>Kitchen</i>	<i>250ml</i>	<i>5/21/22 800</i>
<i>I-MS-Ic</i>	<i>Kitchen</i>	↓	<i>5/21/22 801</i>
<i>MS-Blank</i>	<i>Blank</i>	↓	<i>5/21/22 802</i>

Method of Shipment: <i>Drop off</i>		Sample Condition Upon Receipt:	
Relinquished by: <i>[Signature]</i>	Date/Time:	Received by: <i>Neil carrier</i>	Date/Time: <i>5/23/22 8:05am</i>
Relinquished by:	Date/Time:	Received by:	Date/Time:

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.