



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

CLIENT: Springfield Public Schools Project Number 21-358
PROJECT: Lead (Pb) in Water Sampling Thelma Sandmeier Elementary School
ADDRESS: 666 S. Springfield Avenue, Springfield NJ 07081
FIELD TECHNICIANS: Leonardo Bitondo REPORT DATE: September 15, 2021

As per your request, EnviroVision Consultants, Inc. was contracted by Springfield Public Schools to conduct Lead (Pb) in water sampling at the Sandmeier Elementary School on August 27, 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).

Five of the eight initially requested samples were collected from the Sandmeier Elementary School. The remaining water outlets were either permanently out of service or disabled due to Covid-19 restrictions.

Results: Three of the samples analyzed were either "None Detected" or less than the EPA established threshold for lead in drinking water. However, two of the samples were above the allowable limit established by The United States Environmental Protection Agency (USEPA) of 15 parts per billion (ppb). When a water outlet/faucet meets or exceeds the USEPA 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.



SANDMEIER ELEMENTARY SCHOOL- LEAD (Pb) in Water Results of Concern

Outlet ID/Sample Number	Location	Results
P1 (TSS)	Principal's Office Kitchen Faucet	190 ppb
NS1 (TSS)	Nurses Office Outlet	99.7 ppb

Due to the elevated levels in the above outlets, 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.

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, DEP Overview of Lead in Drinking Water at School Facilities, DEP Guidance for Selecting a Remedial Measure for Lead Removal



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

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

9/14/2021

Phone: (973) 636-9145

Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/30/2021. The results are tabulated on the attached data pages for the following client designated project:

Thelma Sandmeier - 666 South Springfield Ave

The reference number for these samples is EMSL Order #012110097. 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:

Phillip Worby, Environmental 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: 012110097

CustomerID: RAMA51

CustomerPO:

ProjectID:

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

Phone: (973) 636-9145
Fax: (973) 636-9144
Received: 8/30/2021 09:00 AM

Project: **Thelma Sandmeier - 666 South Springfield Ave****Analytical Results**

Client Sample Description WC1-TSBF		Collected: 8/27/2021 7:05:00 AM		Lab ID: 012110097-0001	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/9/2021 14:20 VD
Client Sample Description P1-TSS		Collected: 8/27/2021 7:06:00 AM		Lab ID: 012110097-0002	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	190 D	5.00 µg/L	9/10/2021 IC	9/13/2021 17:16 JW
Client Sample Description KC1-TSS		Collected: 8/27/2021 7:07:00 AM		Lab ID: 012110097-0003	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	8.49	1.00 µg/L	9/9/2021 VD	9/9/2021 14:22 VD
Client Sample Description NS1-TSS		Collected: 8/27/2021 7:08:00 AM		Lab ID: 012110097-0004	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	99.7	1.00 µg/L	9/9/2021 VD	9/9/2021 14:26 VD
Client Sample Description WC3-TSBF		Collected: 8/27/2021 7:16:00 AM		Lab ID: 012110097-0005	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/10/2021 IC	9/13/2021 16:36 JW

**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: 012110097

CustomerID: RAMA51

CustomerPO:

ProjectID:

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

Phone: (973) 636-9145
Fax: (973) 636-9144
Received: 8/30/2021 09:00 AM

Project: **Thelma Sandmeier - 666 South Springfield Ave****Analytical Results**

Client Sample Description	Blank	Collected:	8/27/2021 7:18:00 AM	Lab ID:	012110097-0006
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Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/9/2021 14:27 VD

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

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3676
EMAIL: EnvChemistry2@EMSL.com

EMSL ANALYTICAL, INC.

012110097

Customer ID		Billing ID	
Company Name: EnviroVision		Company Name: US A M E	
Contact Name: Leonardo Bitondo		Billing Contact:	
Street Address: 20-21 Wagaraw Road - Bldg. 35E		Street Address:	
City, State, Zip: Fair Lawn, New Jersey		City, State, Zip:	
Phone: 973 636 9145		Phone:	
Email(s) for Report: Envirovision@optonline.net		Email(s) for Invoice:	
Project Name/No: Thelma Sandmeier - 666 South Springfield Ave		Purchase Order:	
EMSL LIMS Project ID: (if applicable, EMSL will provide)		State of Connecticut (CT) must select project location: Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) <input type="checkbox"/>	
Samples for Compliance? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		State Reporting Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples Collected by (Check One): <input checked="" type="checkbox"/> EMSL <input type="checkbox"/> CLIENT <input type="checkbox"/> Other (Specify)		PWS ID	
Sampled By Name: Leo Bitone		Sample(s) Temperature Upon Receipt (LAB ONLY)	
Standard Turn-Around-Time: <input checked="" type="checkbox"/> 2 Weeks <input type="checkbox"/> 1 Week <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day		No. of Samples in Shipment:	

The following TATs are subject to Lab approval. Call lab to confirm TAT before submit!

List Test(s) Needed (Write in test below, then check on sample line.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix	Preservative	Test Results										Comments	
						Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10		
1 WCL-TSS BF			7/27/21 7:05	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Special Instructions											No add/No color	
2 PL-TSS			7/27/21 7:06														Dark - it
3 KCL-TSS			7/27/21 7:07														7.6
4 NSI-TSS			7/27/21 7:08														7.6

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.):

Reporting Requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hz results EDD ☐ Excel ☐ Other (Describe Above)

Method of Shipment:

Relinquished by: **Leo Bitone** Date/Time: **8/27/21**

Relinquished by: **Jon Cover** Date/Time: **8/27/21**

Controlled Document - COC-07 Chemistry R11 02/28/2021

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.

Order ID: 012110097

Page 1 of 2

RECEIVED
AUG 27 2021
BY **EMSL PISCATAWAY**
8/27/21 8:30 pm
8/27/21 9:00 am per purchase order 8/27/21



EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

012110097

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE (800) 220-3675
EMAIL EnvChemistry2@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.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix	Preservative	List Test(s) Needed (Write in test below, then check on sample line.)								Comments
						Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	
5 WC3-TSBF	<input type="checkbox"/>	<input type="checkbox"/>	8/27/21	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BF
6 Blank	<input type="checkbox"/>	<input type="checkbox"/>	716	W	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	718	W	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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Method of Shipment:	Drop off	
Relinquished by:	[Signature]	
Relinquished by:	[Signature]	
Date/Time:	8/27/21	
Date/Time:	8/27/21	
Received by:	[Signature]	
Received by:	[Signature]	
Date/Time:	8/27/21	
Date/Time:	8/27/21	

Controlled Document - COC-07 Chemistry R11 02/26/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

RECEIVED

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.

AUG 27 2021

Page 2 of 2

BY EMSL PISCATAWAY

SPRINGFIELD PUBLIC SCHOOLS Sampling Plan

1/04/17
Version 01

Attachment C – Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Thelma Sandmeier

Address: 666 South Springfield Ave

Grade Levels: 3, 4, 5 Year School Constructed: 1960 Renovated/Additions: 2004

Individual school project officer Name/Signature: _____

Date Completed: _____

# ¹	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
1	Water cooler	Main hallway by media center	WC1	Yes	No	No	Unkn own	Yes	No	Yes			
2	Water cooler	Main hallway by media center	WC2	Yes	No	No	Unkn own	Yes	No	Yes			
3	Kitchen faucet	Principal's office	P1	Yes	Yes	Yes	Yes	Yes	No	No			
4	Kitchen outlet	Kitchenette	KC1	Yes	No	No	Yes	Yes	No	No			

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

SPRINGFIELD PUBLIC SCHOOLS Sampling Plan

1/04/17

Version 01

5	Nurses office outlet	Nurses office	NS1	Yes	No	No	Yes	Yes	No	No		
6	Water cooler	Main hallway by gymnasium	WC3	Yes	No	Yes	Yes	Yes	Yes	No		
7	Water fountain	Main hallway by gymnasium	DW1	Yes	No	No	Yes	No	No	No		
8	Kitchen faucet	Teachers room	TL1	Yes	No	No	Yes	Yes	No	No		