



TTI ENVIRONMENTAL, INC.
Consulting & Contracting

1253 North Church Street, Moorestown, NJ 08057
www.ttienv.com o 856-840-8800 f 856-840-8815

June 27, 2022

Ms. Lil Brendel
Island Heights BOE
PO Box #329, 115 Summit Ave
Island Heights, New Jersey 08732

Reference: Lead in Water Testing – Island Heights Elementary School
115 Summit Avenue, Island Heights, NJ
TTI Project No. 22-789

Dear Ms. Brendel:

Thank you for selecting TTI Environmental, Inc. (TTI) for your environmental needs. This correspondence is being forwarded to report the results of the Lead in Water Testing conducted for your district.

1.0 Introduction

TTI followed the recommended practices outlined in the Environmental Protection Agency (EPA) 3 T's for Reducing Lead in Drinking Water October 2006, New Jersey Department of Environmental Protection (NJDEP) Division of Water Supply & Geoscience – Lead in Drinking Water: Guidance for Schools & Child Care Facilities. The protocol, which consists of an established sample size volume and water retention time, is designed to identify lead problems at outlets and upstream plumbing within school facilities, and in the water entering the facility.

The initial sampling was conducted on June 17, 2022, and samples were collected from bubblers, fountains, and other outlets used for consumption and were all first-draw samples (i.e., the stagnant water is sampled before any use occurs). The goal is to compare the lead level of water from your facility's service connection to water that has remained stagnant between 8 and 48 hours in an outlet or fixture.

2.0 Summary

The results of the initial sampling revealed that the below location(s) tested had elevated sources above the standard as set forth in NJAC 6A:26-1.2 and 12.4 of 15 parts per billion (ppb). The following fixture(s) were immediately removed from service:

Lunchroom – Sink #01(Large)
Lunchroom – Sink #02(Small)
Nurse's Office – Sink

The following attachments are provided for your review:

- Attachment 1 - Sampling Data and Analytical Results
- Attachment 2 – Quality Assurance Project Plan (QAPP) Certification

If you should have any questions or require additional information, please feel free to contact me directly.

Sincerely,

TTI ENVIRONMENTAL, INC.

James A. Guilardi
Director – Industrial Hygiene Division



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ATTACHMENT 1

Sampling Data and Analytical Results

PB 6/27/22 JD

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS - TRANSMISSION

Lead Chain of Custody

EMSL Order Number / Lab Use Only

012209651

EMSL Analytical, Inc.
200 Route 130 NorthCinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

Customer ID:		Billing ID:	
Company Name: TTI Environmental Inc.		Company Name: TTI Environmental Inc.	
Contact Name: James Guillard		Billing Contact: James Guillard	
Street Address: 1253 North Church Street		Street Address: 1253 North Church Street	
City, State, Zip: Moorestown NJ 08057	Country: US	City, State, Zip: Moorestown NJ 08057	Country: US
Phone: 856-840-8800		Phone: 856-840-8800	
Email(s) for Report: jimg@ttienv.com		Email(s) for Invoice:	

Project Name/No: 22-789 Island Heights BOE		Purchase Order: 22-789
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: Jim Guillard	Sampled By Signature:	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
CHNPS ☐ % by wt. ☐ ppm (avg/typ) ☐ mg/l	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☐
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/liter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/liter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/liter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
If no box is checked, non-ASTM Wipe is assumed	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)	☐
TYLC	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	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Preserved with HNO3 ☐ PH-2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
Unpreserved ☒ PH-2	40 CFR Part 50	ICP-OES	12 µg/liter	☐
Preserved with HNO3				☐
TSP/SPM Filter				☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
SEE ATTACHED COC			

Method of Shipment:		Sample Condition Upon Receipt:	
Regulated by: <i>James Guillard</i>	Date/Time: 6/20/22 8:30A	Received by: <i>WJZ</i>	Date/Time: 6/20/22 7:50
Regulated by: <i>E. Cole</i>	Date/Time: 6/20/22 8:45A	Received by: <i>WJZ</i>	Date/Time: 6/20/22 8:50

Controlled Document - COC-25 Lead R19 4/19/2021

*8010C 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.

Page 1 of 2

WJZ added WJZ 6/20/22 JD

012209651 P6 62712235



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815

LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

[illegible]



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

**James Guilard
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057**

6/29/2022

Phone: (856) 840-8800

Fax: (856) 840-8815

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/20/2022. The results are tabulated on the attached data pages for the following client designated project:

22-789 Island Heights BOE

The reference number for these samples is EMSL Order #012209651. 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: 012209651

CustomerID: TTIE54

CustomerPO: 22-789

ProjectID:

Attn: **James Guilard**
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
 Fax: (856) 840-8815
 Received: 6/20/2022 08:50 AM

Project: 22-789 Island Heights BOE

Analytical Results

Client Sample Description 01 LR-SINK-01 Lunch Room		Collected: 6/17/2022 7:04:00 AM		Lab ID: 012209651-0001	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	22.6	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:30
Client Sample Description 02 LR-SINK-02 Lunch Room		Collected: 6/17/2022 7:05:00 AM		Lab ID: 012209651-0002	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	15.9	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:38
Client Sample Description 03 HW-WFC-04 Hallway by Main Office		Collected: 6/17/2022 7:08:00 AM		Lab ID: 012209651-0003	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:39
Client Sample Description 04 TL-SINK-06 Teacher's Lounge		Collected: 6/17/2022 8:12:00 AM		Lab ID: 012209651-0004	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.65	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:41
Client Sample Description 05 LO-SINK-07 Lil's Office		Collected: 6/17/2022 7:14:00 AM		Lab ID: 012209651-0005	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	3.05	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:42

**EMSL Analytical, Inc.**

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Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012209651

CustomerID: TTIE54

CustomerPO: 22-789

ProjectID:

Attn: **James Guillard**
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received: 6/20/2022 08:50 AM

Project: 22-789 Island Heights BOE

Analytical Results

Client Sample Description 06 NO-SINK-08 Nurse's Office		Collected: 6/17/2022 7:16:00 AM		Lab ID: 012209651-0006	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	21.4	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:44
Client Sample Description 07 NOB-SINK-09 Bathroom in Nurse's Office		Collected: 6/17/2022 7:17:00 AM		Lab ID: 012209651-0007	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	8.15	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:45
Client Sample Description 08 R109-S-10 Room 109		Collected: 6/17/2022 7:20:00 AM		Lab ID: 012209651-0008	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	6.96	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:47
Client Sample Description 09 NOB-SINK-09 Room 201		Collected: 6/17/2022 7:24:00 AM		Lab ID: 012209651-0009	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.65	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:48
Client Sample Description 10 GYM-WFC-12 Gymnasium		Collected: 6/17/2022 7:28:00 AM		Lab ID: 012209651-0010	
Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	6/28/2022 KG	6/28/2022 KG 18:50

**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: 012209651

CustomerID: TTIE54

CustomerPO: 22-789

ProjectID:

Attn: **James Guillard**
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received: 6/20/2022 08:50 AM

Project: 22-789 Island Heights BOE

Analytical Results

Client Sample Description		11 GYM-WFC-13 Gymnasium	Collected:		6/17/2022 7:29:00 AM	Lab ID:		012209651-0011
Method	Parameter	Result	RL Units	Prep Date & Analyst		Analysis Date & Analyst		
METALS								
200.8	Lead	ND	1.00 µg/L	6/28/2022	KG	6/28/2022 18:52	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



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ATTACHMENT 2

QAPP Lab Certification

**Quality Assurance Project Plan
(QAPP)
Drinking Water Sampling
of Lead Concentrations in School Drinking Water
Outlets**

Approvals

School District Representatives:

Program Manager:	_____	_____	_____
	<i>Print Name</i>	<i>Signature</i>	<i>Date</i>
Project Manager(s):	_____	_____	_____
	<i>Print Name</i>	<i>Signature</i>	<i>Date</i>

Individual School Project Officer(s)
(See Attachment 1)

Third Party Sampling Firm: TTI Environmental Inc
(N/A if Third Party not Involved) *Name of Firm*

<u>Tim Popp</u>	<u>[Signature]</u>	<u>7/15/21</u>
<i>Print Name</i>	<i>Signature</i>	<i>Date</i>

Laboratory: EMSL Analytical, Inc.
Name of Laboratory

Laboratory Manager:	<u>Phillip M. Warby</u>	<u>[Signature]</u>	<u>07/13/2021</u>
	<i>Print Name</i>	<i>Signature</i>	<i>Date</i>

Laboratory QA Officer:	<u>Patrick Villarante</u>	<u>[Signature]</u>	<u>07/08/21</u>
	<i>Print Name</i>	<i>Signature</i>	<i>Date</i>

For additional laboratories conducting sampling and/or analysis, use additional sheet for sign-off.