

## CERTIFICATE OF ANALYSIS

**Client:** TTI Environmental Inc.  
1253 North Church St.  
Moorestown NJ 08057

**Report Date:** 4/6/2017  
**Report No.:** 533416 - Lead Water  
**Project:** Metuchen BOE; Campbell Elementary, 24 Durham Avenue  
**Project No.:** 16-1614

**Client:** TTI379

### LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6192543                      **Location:** Kitchen-Food Prep Table-Sink Faucet                      **Result(ppb):** <2.00  
**Client No.:** 1 CES-SF-K

**Lab No.:** 6192544                      **Location:** Hall At Gym (Left)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 2 CES-WC-HGYML

**Lab No.:** 6192545                      **Location:** Hall At Rm 27 (Left)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 4 CES-WC-H27L

**Lab No.:** 6192546                      **Location:** Hall At Rm 27 (Right)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 5 CES-WC-H27R

**Lab No.:** 6192547                      **Location:** Hall At Rm 23 (Left)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 6 CES-WC-H23L

**Lab No.:** 6192548                      **Location:** Hall At Rm 23 (Right)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 7 CES-WC-H23R


**Lab No.:** 6192549                      **Location:** Hall At Rm 90-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 8 CES-WC-H90

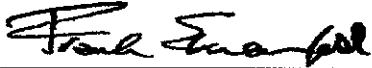
**Lab No.:** 6192550                      **Location:** Hall At Rm 12-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 9 CES-WC-H12

**Lab No.:** 6192551                      **Location:** Hall At Rm 46 (Left)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 10 CES-WC-H46L

**Lab No.:** 6192552                      **Location:** Hall At Rm 46 (Right)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 11 CES-WC-H46R

Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 4/3/2017  
**Date Analyzed:** 04/06/2017  
**Signature:**   
**Analyst:** Chad Shaffer

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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<b>Client:</b> TTI Environmental Inc. 1253 North Church St. Moorestown NJ 08057  <b>Client:</b> TTI379	<b>Report Date:</b> 4/6/2017 <b>Report No.:</b> 533416 - Lead Water <b>Project:</b> Metuchen BOE; Campbell Elementary, 24 Durham Avenue <b>Project No.:</b> 16-1614
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### LEAD WATER SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6192553	<b>Location:</b> Rm 46 Nurse Exam-Sink Faucet	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 12 CES-SF-NURSE1		

<b>Lab No.:</b> 6192554	<b>Location:</b> Rm 46 Nurse Office-Sink Faucet	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 13 CES-SF-NURSEO		

<b>Lab No.:</b> 6192555	<b>Location:</b> Hall At Rm 18 (Left)-Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 14 CES-WC-H18L		

<b>Lab No.:</b> 6192556	<b>Location:</b> Hall At Rm 18 (Right)-Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 15 CES-WC-H18R		

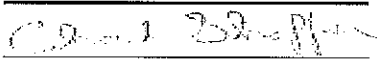
<b>Lab No.:</b> 6192557	<b>Location:</b> Hall At Rm 2-Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 16 CES-WC-H2		

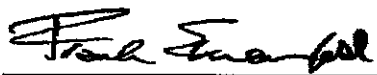
<b>Lab No.:</b> 6192558	<b>Location:</b> Hall At Rm 5-Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 17 CES-WC-H5		

<b>Lab No.:</b> 6192559	<b>Location:</b> Faculty Rm-Sink Faucet	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 18 CES-SF-FACULTY		

<b>Lab No.:</b> 6192560	<b>Location:</b> Blank	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> Blank		

Please refer to the Appendix of this report for further information regarding your analysis.

<b>Date Received:</b>	4/3/2017
<b>Date Analyzed:</b>	04/06/2017
<b>Signature:</b>	
<b>Analyst:</b>	Chad Shaffer

<b>Approved By:</b>	
	Frank E. Ehrenfeld, III
	Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** TTI Environmental Inc.  
1253 North Church St.  
Moorestown NJ 08057

**Report Date:** 4/6/2017  
**Report No.:** 533416 - Lead Water  
**Project:** Metuchen BOE; Campbell Elementary, 24  
Durham Avenue  
**Project No.:** 16-1614

**Client:** TTI379

### Appendix to Analytical Report:

**Customer Contact:** TTI Reports  
**Analysis:** AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com  
**iATL Office Manager:** cdavis@iatl.com  
**iATL Account Representative:** Shirley Clark  
**Sample Login Notes:** See Batch Sheet Attached  
**Sample Matrix:** Water  
**Exceptions Noted:** See Following Pages

#### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

#### Information Pertinent to this Report:

##### Analysis by AAS Graphite Furnace:

- ASTM D3559-08D, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B:7421 - Pb(AAS-GF, RL <2 ppb/sample)

##### Certification:

- NYS-DOH No. 11021
- NJDEP No. 03863

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 2.0 PPB

#### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

## Chain of Custody

– Environmental Lead –

### Contact Information

<b>Client Company:</b> <u>TTI Environmental, Inc.</u>	<b>Project Number:</b> <u>16-1614</u>
<b>Office Address:</b> <u>1253 North Church Street</u>	<b>Project Name:</b> <u>Metuchen BOE</u>
<b>City, State, Zip:</b> <u>Moorestown, NJ 08057</u>	<b>Primary Contact:</b> <u>Jim Guillard</u>
<b>Fax Number:</b> <u>856-840-8815</u>	<b>Office Phone:</b> <u>856-840-880</u>
<b>Email Address:</b> <u>Jimg@ttienv.com</u>	<b>Cell Phone:</b> <u>609-314-1683</u>

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

### Matrix/Method:

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- Other Lead in Water EPA 200.9

### Special Instructions:

PO# 022380 ESCNJ Co-Op  
 Campbell Elementary School  
(CES)

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax  
Specific date / time  
 10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*  
 \* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

### Chain of Custody

Relinquished (Name/Organization): _____	Date: _____	Time: _____	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b> </div>
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): <u>KV 4-3-17</u>	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>Call 4/7/17</u>	Date: _____	Time: _____	
QA/QC Review (Name / iATL): <u>[Signature]</u>	Date: _____	Time: _____	
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____	Time: _____	

APR - 3 2017

IATL - By KV



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

### LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

PROJECT #: 16-1614		CLIENT: Metuchen BOE		DATE: 4/1/2017		FACILITY: Campbell Elementary	
PO #: 022380		SAMPLER(S): A. Culliton		ADDRESS: 24 Durham Avenue			
Sample ID	Location/Description	Time	Sample Type: Initial Flush (30sec / 15min)	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...	
1	CES-SF-K Kitchen-Food Prep Table	9:15	Initial	Sink Faucet	250mL	6192543	
2	CES-WC-HGYML Hall at Gym (Left)	9:16	Initial	Water Cooler	250mL	6192544	
3	CES-WC-HGYMR Hall at Gym (Right)	-	Initial	Water Cooler	250mL	Fixture No Longer Present-No Sample Submitted	
4	CES-WC-H27L Hall at Rm 27 (Left)	9:19	Initial	Water Cooler	250mL	6192545	
5	CES-WC-H27R Hall at Rm 27 (Right)	9:20	Initial	Water Cooler	250mL	6192546	
6	CES-WC-H23L Hall at Rm 23 (Left)	9:23	Initial	Water Cooler	250mL	6192547	
7	CES-WC-H23R Hall at Rm 23 (Right)	9:23	Initial	Water Cooler	250mL	6192548	
8	CES-WC-H90 Hall at Rm 90	9:25	Initial	Water Cooler	250mL	6192549	
9	CES-WC-H12 Hall at Rm 12	9:27	Initial	Water Cooler	250mL	6192550	
10	CES-WC-H46L Hall at Rm 46 (Left)	9:28	Initial	Water Cooler	250mL	6192551	
11	CES-WC-H46R Hall at Rm 46 (Right)	9:29	Initial	Water Cooler	250mL	6192552	
12	CES-SF-NURSE1 Rm 46-Nurse Exam	9:30	Initial	Sink Faucet	250mL	6192553	
13	CES-SF-NURSE0 Rm 46-Nurse Office	9:31	Initial	Sink Faucet	250mL	6192554	
14	CES-WC-H18L Hall at Rm 18 (Left)	9:33	Initial	Water Cooler	250mL	6192555	
15	CES-WC-H18R Hall at Rm 18 (Right)	9:34	Initial	Water Cooler	250mL	6192556	
16	CES-WC-H2 Hall at Rm 2	9:40	Initial	Water Cooler	250mL	Flow Stop	
17	CES-WC-H5 Hall at Rm 5	9:42	Initial	Water Cooler	250mL	6192558	
18	CES-SF-FACULTY Faculty Rm	9:45	Initial	Sink Faucet	250mL	6192559	
	BLANK	9:15	-	-	250mL	6192560	

ACID T 11.13 17