

CERTIFICATE OF ANALYSIS

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

Report Date: 6/12/2017
Report No.: 538065 - Lead Water
Project: "Old Consortium LIDW"; Betty McElmon Schools (BME)
Project No.: 17-390

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252324 **Location:**Room 23-Nurse's Office-Sink Bubbler **Result(ppb):**<2.00
Client No.:1-BME-SB-NURSE

Lab No.:6252325 **Location:**Room 23-Nurse's Office-Sink Faucet **Result(ppb):**<2.00
Client No.:2-BME-SF-NURSE

Lab No.:6252326 **Location:**Room 23-Nurse's Restroom-Sink Faucet **Result(ppb):**<2.00
Client No.:3-BME-SF-NURSERR

Lab No.:6252327 **Location:**Kitchen-Sink Faucet w/Sprayer **Result(ppb):**<2.00
Client No.:4-BME-SFS-K

Lab No.:6252328 **Location:**Kitchen (2 Tub)-Sink Faucet **Result(ppb):**<2.00
Client No.:5-BME-SF-K2T

Lab No.:6252329 **Location:**Cafe-Water Cooler **Result(ppb):**<2.00
Client No.:6-BME-WC-CAFE


Lab No.:6252330 **Location:**Room 31-Sink Bubbler **Result(ppb):**<2.00
Client No.:7-BME-SB-31


Lab No.:6252331 **Location:**Room 22-Sink Bubbler **Result(ppb):**<2.00
Client No.:8-BME-SB-22

Lab No.:6252332 **Location:**Room 21-Sink Bubbler **Result(ppb):**<2.00
Client No.:9-BME-SB-21

Lab No.:6252333 **Location:**Hall At Room 21-Water Fountain **Result(ppb):**<2.00
Client No.:10-BME-WF-H21

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

Date Received: 6/5/2017
Date Analyzed: 06/12/2017
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252334 **Location:**Room 20-Sink Bubblers **Result(ppb):**<2.00
Client No.:11-BME-SB-20

Lab No.:6252335 **Location:**Faculty-Room 34-Sink Faucet **Result(ppb):**<2.00
Client No.:12-BME-SF-FACULTY

Lab No.:6252336 **Location:**Room 19-Sink Bubblers **Result(ppb):**<2.00
Client No.:13-BME-SB-19

Lab No.:6252337 **Location:**Room 18-Sink Bubblers **Result(ppb):**<2.00
Client No.:14-BME-SB-18

Lab No.:6252338 **Location:**Hall At Room 18-Water Fountain **Result(ppb):**<2.00
Client No.:15-BME-WF-H18

Lab No.:6252339 **Location:**Room 17-Sink Bubblers **Result(ppb):**<2.00
Client No.:16-BME-SB-17


Lab No.:6252340 **Location:**Room 16-Sink Bubblers **Result(ppb):**<2.00
Client No.:17-BME-SB-16


Lab No.:6252341 **Location:**Room 15-Sink Bubblers **Result(ppb):**<2.00
Client No.:18-BME-SB-15

Lab No.:6252342 **Location:**Room 3C-Sink Bubblers **Result(ppb):**<2.00
Client No.:19-BME-SB-3C

Lab No.:6252343 **Location:**Room 3A-Sink Bubblers **Result(ppb):**<2.00
Client No.:20-BME-SB-3A

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

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252344 **Location:**Hall At Room 15-Water Fountain **Result(ppb):**<2.00
Client No.:21-BME-WF-H15

Lab No.:6252345 **Location:**Room 14-Sink Bubblers **Result(ppb):**<2.00
Client No.:22-BME-SB-14

Lab No.:6252346 **Location:**Room 9-Sink Bubblers **Result(ppb):**<2.00
Client No.:23-BME-SB-9

Lab No.:6252347 **Location:**Room 13-Sink Bubblers **Result(ppb):**<2.00
Client No.:24-BME-SB-13


Lab No.:6252348 **Location:**Room 10-Sink Bubblers **Result(ppb):**2.80
Client No.:25-BME-SB-10


Lab No.:6252349 **Location:**Room 11-Sink Bubblers **Result(ppb):**<2.00
Client No.:26-BME-SB-11

Lab No.:6252350 **Location:**Room 12-Sink Bubblers **Result(ppb):**<2.00
Client No.:27-BME-SB-12

Lab No.:6252351 **Location:**Blank **Result(ppb):**<2.00
Client No.:Blank

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

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Signature: 
Analyst: Chad Shaffer

Approved By: 
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Laboratory Director

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Schools (BME)
Project No.: 17-390

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 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.

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

| | |
|--|--|
| Client Company: <u>TTI Environmental, Inc.</u> | Project Number: <u>17-390</u> |
| Office Address: <u>1253 North Church Street</u> | Project Name: <u>West Long Branch Schools</u> |
| City, State, Zip: <u>Moorestown, NJ 08057</u> | Primary Contact: <u>Jim Guilardi</u> |
| Fax Number: <u>856-840-8815</u> | Office Phone: <u>856-840-8800</u> |
| Email Address: <u>Jimg@ttienv.com</u> | Cell Phone: <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:

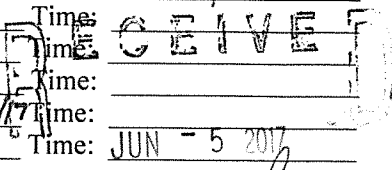
PO # 072782 ESCNJ Co-Op (Old Pricing)
 Betty McElmon School (BME) << Please use School Name as Project Name on COA >>

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): <u>ACull for TTI</u> | Date: <u>6-5-17</u> | Time: <u>3:45pm</u> |
| Received (Name / iATL): _____ | Date: _____ | Time: _____ |
| Sample Login (Name / iATL): <u>L2 9/6/17</u> | Date: _____ | Time: _____ |
| Analysis(Name(s) / iATL): _____ | Date: _____ | Time: _____ |
| QA/QC Review (Name / iATL): <u>for eng/zh7</u> | Date: <u>6/12/17/6/17/17</u> | Time: _____ |
| Archived / Released: _____ | QA/QC InterLAB Use: _____ | Date: _____ |





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

87 + Blank
1/2

LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

| PROJECT #: 17-390 | | CLIENT: West Long Branch School District | | FACILITY: Betty McElmon School | | |
|-------------------|----------------------|--|--|---|--------|---|
| PO #: 022782 | | SAMPLER(S): A. Cullen | | ADDRESS: 20 Parker Road, West Long Branch, NJ | | |
| Sample ID | Location/Description | Time | Sample Type: Initial Flush (30sec / 15min) | Outlet Type: | Volume | Notes: Discolored, Odor, Low Flow, Etc... |
| 1 | BME-SB-NURSE | 8:51 | Initial | Sink Bubblers | 250mL | 6252324 |
| 2 | BME-SF-NURSE | 8:51 | | Sink Faucet | 250mL | 6252325 |
| 3 | BME-SF-NURSERR | 8:53 | | Sink Faucet | 250mL | 6252326 |
| 4 | BME-SFS-K | 8:54 | | Sink Faucet w/ Sprayer | 250mL | 6252327 |
| 5 | BME-SF-K2T | 8:55 | | Sink Faucet | 250mL | 6252328 |
| 6 | BME-WC-CAFÉ | 8:55 | | Water Cooler | 250mL | 6252329 |
| 7 | BME-SB-31 | 8:57 | | Sink Bubblers | 250mL | 6252330 |
| 8 | BME-SB-22 | 8:57 | | Sink Bubblers | 250mL | 6252331 |
| 9 | BME-SB-21 | 8:59 | | Sink Bubblers | 250mL | 6252332 |
| 10 | BME-WF-H21 | 9:00 | | Water Fountain | 250mL | 6252333 |
| 11 | BME-SB-20 | 9:01 | | Sink Bubblers | 250mL | 6252334 |
| 12 | BME-SF-FACULTY | 9:03 | | Sink Faucet | 250mL | 6252335 |
| 13 | BME-SB-19 | 9:04 | | Sink Bubblers | 250mL | 6252336 |
| 14 | BME-SB-18 | 9:05 | | Sink Bubblers | 250mL | 6252337 |
| 15 | BME-WF-H18 | 9:07 | | Water Fountain | 250mL | 6252338 |
| 16 | BME-SB-17 | 9:08 | | Sink Bubblers | 250mL | 6252339 |
| 17 | BME-SB-16 | 9:09 | | Sink Bubblers | 250mL | 6252340 |
| 18 | BME-SB-15 | 9:10 | | Sink Bubblers | 250mL | 6252341 |
| 19 | BME-SB-3C | 9:12 | | Sink Bubblers | 250mL | 6252342 |

