

CERTIFICATE OF ANALYSIS

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

Report Date: 6/13/2017
Report No.: 538068 - Lead Water
Project: "Old Consortium LIDW"; Shore Regional High School (SR)
Project No.: 17-329

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252412 **Location:**BOE Restroom-Sink Faucet **Result(ppb):**5.30
Client No.:1-SR-SF-BOERR

Lab No.:6252413 **Location:**Hall At BOE Office-Water Cooler **Result(ppb):**5.20
Client No.:2-SR-WC-HBOE

Lab No.:6252414 **Location:**Info Center-Sink Faucet **Result(ppb):**5.10
Client No.:3-SR-SF-INFO

Lab No.:6252415 **Location:**Hall At Info Center-Water Cooler **Result(ppb):**<2.00
Client No.:4-SR-WC-HINFO

Lab No.:6252416 **Location:**Hall At E-2-Water Cooler **Result(ppb):**<2.00
Client No.:5-SR-WC-HE2


Lab No.:6252417 **Location:**Hall At E-11-Water Cooler **Result(ppb):**<2.00
Client No.:6-SR-WC-HE11

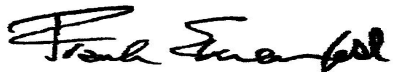
Lab No.:6252418 **Location:**Hall At B-2-Water Cooler **Result(ppb):**<2.00
Client No.:7-SR-WC-HB2

Lab No.:6252419 **Location:**Hall At C-1-Water Cooler **Result(ppb):**<2.00
Client No.:8-SR-WC-HC1

Lab No.:6252420 **Location:**Nurse's Office-Girl's Restroom-Sink Faucet **Result(ppb):**2.30
Client No.:9-SR-SF-NURSERRG

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

Date Received: 6/5/2017
Date Analyzed: 06/13/2017
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252421 **Location:**Nurse's Office-Sink Faucet **Result(ppb):**<2.00
Client No.:10-SR-SF-NURSEO

Lab No.:6252422 **Location:**Nurse's Office-Men's Restroom-Sink Faucet **Result(ppb):**2.30
Client No.:11-SR-SF-NURSERRM

Lab No.:6252423 **Location:**Athletic Trainer's Office-Ice Machine **Result(ppb):**<2.00
Client No.:12-SR-IM-TRAINER

Lab No.:6252424 **Location:**Athletic Trainer's Office-Slop Sink **Result(ppb):**4.00
Client No.:13-SR-SS-TRAINER

Lab No.:6252425 **Location:**Athletic Trainer's Office-Faucet Outlet **Result(ppb):**5.00
Client No.:14-SR-FO-TRAINER


Lab No.:6252426 **Location:**D-5-Sink Faucet **Result(ppb):**<2.00
Client No.:16-SR-SF-D5.1
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.
Sample analyzed on 6/14/17 by Chad Shaffer.

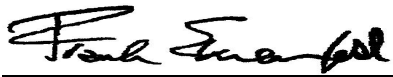
Lab No.:6252427 **Location:**D-5-Sink Faucet **Result(ppb):**<2.00
Client No.:17-SR-SF-D5.2

Lab No.:6252428 **Location:**D-5-Sink Faucet **Result(ppb):**<2.00
Client No.:18-SR-SF-D5.3

Lab No.:6252429 **Location:**D-5-Sink Faucet **Result(ppb):**2.20
Client No.:19-SR-SF-D5.4

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.:6252430 **Location:**D-5-Sink Faucet **Result(ppb):**<2.00
Client No.:20-SR-SF-D5.5

Lab No.:6252431 **Location:**D-5-Sink Faucet **Result(ppb):**<2.00
Client No.:21-SR-SF-D5.6


Lab No.:6252432 **Location:**Hall At D-10-Water Cooler **Result(ppb):**<2.00
Client No.:22-SR-WC-HD10


Lab No.:6252433 **Location:**Weight Room-Water Cooler **Result(ppb):**<2.00
Client No.:23-SR-WC-WEIGHT

Lab No.:6252434 **Location:**Faculty-Men's Restroom-Sink Faucet **Result(ppb):**<2.00
Client No.:24-SR-SF-FACULTY-M

Lab No.:6252435 **Location:**Faculty-Women's Restroom-Sink Faucet **Result(ppb):**<2.00
Client No.:25-SR-SF-FACULTY-W

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

Date Received: 6/5/2017
Date Analyzed: 06/13/2017
Signature: 
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6252436

Location: Kitchen (Left)-Coffee Machine

Result(ppb):

Client No.: 28-SR-CM-KL

Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

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

Date Received: 6/5/2017

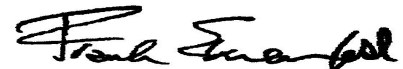
Date Analyzed: 06/09/2017

Signature:



Analyst: Mark Stewart

Approved By:



Frank E. Ehrenfeld, III

Laboratory Director

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Project No.: 17-329

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6252437 **Location:**Kitchen (Right)-Coffee Machine **Result(ppb):**<2.00
Client No.:29-SR-CM-KR

Lab No.:6252438 **Location:**Kitchen-Ice Machine **Result(ppb):**<2.00
Client No.:30-SR-IM-K

Lab No.:6252439 **Location:**Kitchen-3 Tub-Sink Faucet w/Sprayer **Result(ppb):**5.30
Client No.:31-SR-SFS-K

Lab No.:6252440 **Location:**Kitchen-3 Tub (Right)-Sink Faucet **Result(ppb):**<2.00
Client No.:32-SR-SF-K3TR

Lab No.:6252441 **Location:**Kitchen-3 Tub (Center)-Sink Faucet **Result(ppb):**2.50
Client No.:33-SR-SF-K3TC


Lab No.:6252442 **Location:**Kitchen-3 Tub (Left)-Sink Faucet **Result(ppb):**18.4
Client No.:34-SR-SF-K3TL

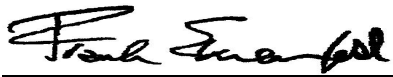
Lab No.:6252443 **Location:**Kitchen-2 Tub (Right)-Sink Faucet **Result(ppb):**3.60
Client No.:35-SR-SF-K2TR

Lab No.:6252444 **Location:**Kitchen-2 Tub (Left)-Sink Faucet **Result(ppb):**34.0
Client No.:36-SR-SF-K2TL

Lab No.:6252445 **Location:**Kitchen-1 Tub-Sink Faucet **Result(ppb):**<2.00
Client No.:37-SR-SF-K1T

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

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Date Analyzed: 06/13/2017
Signature: 
Analyst: Mark Stewart

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6252446

Location: Kitchen-Pot/Kettle Filler (Right)-Faucet Outlet

Result(ppb): 17.0

Client No.: 38-SR-FO-K1

Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.: 6252447

Location: Kitchen-Pot/Kettle Filler (Left)-Faucet Outlet

Result(ppb): 32.9

Client No.: 39-SR-FO-K2

Lab No.: 6252448
Client No.: Blank

Location: Blank

Result(ppb): <2.00

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

Date Received: 6/5/2017

Date Analyzed: 06/13/2017

Signature: 

Analyst: Mark Stewart

Approved By: 

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Laboratory Director

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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>17-329</u>
Office Address: <u>1253 North Church Street</u>	Project Name: <u>Shore Regional 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 # 022783 ESCNJ Co-Op (Old Pricing)
 Shore Regional High School (SR) << 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>A. Culliton / TTI</u>	Date: <u>6-5-17</u>	Time: <u>3:45pm</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	RECEIVED
Sample Login (Name / iATL): <u>6/6/17</u>	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>MS</u>	Date: <u>6/13/17</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____	Time: <u>JUN - 5 2017</u>	

iATL - BY AA -1-



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

LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

(36) + Blank

1/3

PROJECT #: 17-329		CLIENT: Shore Regional School District		FACILITY: Shore Regional High School		
PO #:	SAMPLER(S):	DATE:	ADDRESS:	ADDRESS:	ADDRESS:	
Sample ID	Location/Description	Time	Sample Type: Initial Flush (30sec / 15min)	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...
1	SR-SF-BOERR BOE Restroom	7:03	Initial	Sink Faucet	250mL	6202412
2	SR-WC-HBOE Hall at BOE Office	7:04	Initial	Water Cooler	250mL	6202413
3	SR-SF-INFO Info Center	7:05	Initial	Sink Faucet	250mL	6202414
4	SR-WC-HINFO Hall at Info Center	7:06	Initial	Water Cooler	250mL	6202415
5	SR-WC-HE2 Hall at E-2	7:08	Initial	Water Cooler	250mL	6202416
6	SR-WC-HE11 Hall at E-11	7:09	Initial	Water Cooler	250mL	6202417
7	SR-WC-HB2 Hall at B-2	7:11	Initial	Water Cooler	250mL	6202418
8	SR-WC-HC1 Hall at C-1	7:13	Initial	Water Cooler	250mL	6202419
9	SR-SF-NURSERRG Nurse's Office-Girl's Restroom	7:14	Initial	Sink Faucet	250mL	6202420
10	SR-SF-NURSEO Nurse's Office	7:15	Initial	Sink Faucet	250mL	6202421
11	SR-SF-NURSERRM Nurse's Office-Men's Restroom	7:15	Initial	Sink Faucet	250mL	6202422
12	SR-JIM-TRAINER Athletic Trainer's Office	7:16	Initial	Ice Machine	250mL	6202423
13	SR-SS-TRAINER Athletic Trainer's Office	7:19	Initial	Slop Sink	250mL	6202424
14	SR-FO-TRAINER Athletic Trainer's Office	7:20	Initial	Faucet Outlet	250mL	6202425
15	SR-WC-D2 D-2	—	Initial	Water Cooler	250mL	Supersature
16	SR-SF-D5.1 D-5	7:24	Initial	Sink Faucet	250mL	6202426
17	SR-SF-D5.2 D-5	7:25	Initial	Sink Faucet	250mL	6202427
18	SR-SF-D5.3 D-5	7:25	Initial	Sink Faucet	250mL	6202428
19	SR-SF-D5.4 D-5	7:26	Initial	Sink Faucet	250mL	6202429



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LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

2/3

PROJECT #: 17-329		CLIENT: Shore Regional School District		FACILITY: Shore Regional High School		
PO #:	SAMPLER(S):	DATE:	ADDRESS:	ADDRESS:	ADDRESS:	
Sample ID	Location/Description	Time	Sample Type: Initial Flush (30sec / 15min)	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...
20	SR-SF-D5.5 D-5	7:29	Initial	Sink Faucet	250mL	6202430
21	SR-SF-D5.6 D-5	7:30	Initial	Sink Faucet	250mL	6202401
22	SR-WC-HD10 Hall at D-10	7:31	Initial	Water Cooler	250mL	6202402
23	SR-WC-WEIGHT Weight Room	7:32	Initial	Water Cooler	250mL	6202403
24	SR-SF-FACULTY-M Faculty-Men's Restroom	7:33	Initial	Sink Faucet	250mL	6202404
25	SR-SF-FACULTY-W Faculty-Women's Restroom	7:33	Initial	Sink Faucet	250mL	6202405
26	SR-DW-LOCKERB Boy's Locker Room	—	Initial	Drinking Water Bubbler	250mL	Inoperative
27	SR-WC-HGIRLS Hall at Girl's Locker Room	—	Initial	Water Cooler	250mL	Inoperative
28	SR-CM-KL Kitchen (Left)	7:40	Initial	Coffee Machine	250mL	6202406 Tapped at approximately 7:00 AM
29	SR-CM-KR Kitchen (Right)	7:41	Initial	Coffee Machine	250mL	6202407
30	SR-IM-K Kitchen	7:43	Initial	Ice Machine	250mL	6202408
31	SR-SFS-K Kitchen-3 Tub	7:45	Initial	Sink Faucet w/ Sprayer	250mL	6202409
32	SR-SF-K3TR Kitchen-3 Tub (Right)	7:46	Initial	Sink Faucet	250mL	6202410
33	SR-SF-K3TC Kitchen-3 Tub (Center)	7:46	Initial	Sink Faucet	250mL	6202411
34	SR-SF-K3TL Kitchen-3 Tub (Left)	7:47	Initial	Sink Faucet	250mL	6202412
35	SR-SF-K2TR Kitchen-2 Tub (Right)	7:48	Initial	Sink Faucet	250mL	6202413
36	SR-SF-K2TL Kitchen-2 Tub (Left)	7:49	Initial	Sink Faucet	250mL	6202414
37	SR-SF-K1T Kitchen-1 Tub	7:50	Initial	Sink Faucet	250mL	6202415
38	SR-FO-K1 Kitchen-Pot/Kettle Filler (Right)	7:51	Initial	Faucet Outlet	250mL	6202416

