

May 31, 2022

Mr. James Perrette
Manager of Buildings & Grounds
Livingston Public Schools
11 Foxcroft Drive
Livingston, NJ 07039

RE: NJDOE Mandated Lead in Drinking Water Testing
2022 Results Summary

Dear Mr. Perrette:

Between April 19, 2022 and April 23, 2022, Tara Ekiert, B.S., and Brittney Christie, B.S., both from Garden State Environmental, Inc. (GSE), collected water samples from 377 outlets at ten (10) Livingston Public School District (hereinafter District) facilities. The sample locations were determined by the Drinking Water Outlet Inventory for each facility.

The New Jersey Department of Education (NJDOE) has a Lead Action Level (AL) of 15 PPB. Outlets with results above the 15 PPB AL must be **immediately** taken out of service and the flush sample **must** be sent to the lab for analysis. GSE identified ten (10) outlets that have results above the NJDOE AL.

In addition to following the NJDOE standard, to be proactive with controlling lead concentrations within drinking water outlets, Garden State Environmental, Inc. has developed their own lead AL of 10 PPB. GSE uses this AL so the District is aware of any outlets that may be approaching the NJDOE AL. This way remedial action can take place before an exceedance of 15 PPB occurs. 19 of the outlets were above the GSE AL. While outlets with results below the NJDOE AL do not need the flush sample sent to the laboratory for analysis; we highly recommend they are sent.

Per your request, GSE has provided the following summary of laboratory results from the 2022 sampling. All outlets not listed below had lead concentrations of <10 PPB. Therefore, we do not recommend having the second draw (flush) samples analyzed.

Lead Analysis of Drinking Water					
School	Sample ID#	Sample Location	First Draw Result in µg/l (ppb)	Remedial Action	
Livingston HS	LHS-1-S-06A	Sink Comp by Serv. Line Left	11.6		
	LSH-1-S-15A	Sink B141 Middle Wall Right	11.4		
	LHS-1-S-13A	Sink B141 Middle Window Right	12.0		
	LHS-2-H-01A	Hose CIP B234 Back	14.9		
WO 54609	LHAR-1-S-03A	Sink Main Office	16.9	Outlet immediately taken out of service.	Repaired
WO 54610	LHAR-2-B-05A	Bubbler Room 206	17.9	Outlet immediately taken out of service.	Repaired
WO 54611	LHAR-2-B-07A	Bubbler Room 207	16.6	Outlet immediately taken out of service.	Capped off
WO 54613	LHAR-1-S-06A	Sink Kitchen 2 Comp Right	23.4	Outlet immediately taken out of service.	Repaired
WO 54614 Harrison ES	LHAR-1-B-29A	Bubbler Room 13	17.9	Outlet immediately taken out of service.	Capped off
	LHAR-2-B-08A	Bubbler Room 208	10.8		
	LHAR-1-B-12A	Reading Room Bubbler	12.5		
	LHAR-1-B-14A	Bubbler Room K-1	10.5		
	LHAR-1-B-22A	Bubbler Room 17	14.0		
	LHAR-1-B-24A	Bubbler Room 15	11.7		
WO 54673 Burnet Hill ES	LBH-1-B-10A	Bubbler Hall By Room 26	74.0	Outlet Immediately Taken Out of Service	Capped off
	LBH-1-B-01A	Bubbler Room 1	11.0		
	LBH-1-B-20A	Bubbler Room 34	12.0		
Collins ES	-	-	-	No outlets >10PPB	

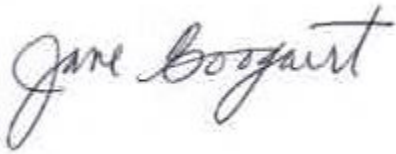
School	Sample ID#	Sample Location	First Draw Result in µg/l (ppb)	Remedial Action	
Riker Hills ES	LRH-1-B-02A	Bubbler Room K-2	11.3		
	LRH-1-S-07A	Sink Kitchen Single Comp	12.2		
	LRH-1-B-05A	Bubbler Room 15	11.6		
	LRH-1-B-08A	Bubbler Room 18	14.0		
	LRH-1-B-22A	Bubbler Room 1	14.1		
Heritage MS	LHER-1-B-12A	Bubbler Faculty Room	10.5		
	LHER-1-S-12A	Sink Nurse	10.4		
Hillside ES	-	-	-	No outlets >10PPB	
BOE/Admin	-	-	-	No outlets >10PPB	
Mt. Pleasant	LMP-1-B-10A	Bubbler Room 10	12.7		
WO 54619	LMC-B-S-01A	Sink Basement Kitchen Left	57.2	Outlet immediately taken out of service.	Repaired
WO 54617 Monmouth Court	LMC-2-WC-02A	Water Cooler Upstairs Hall	111	Outlet immediately taken out of service.	Replaced
WO 54620	LMC-2-S-05A	Sink Room 216	65.6	Outlet immediately taken out of service.	Repaired
WO 54621	LMC-2-S-06A	Sink Room 213	29.2	Outlet immediately taken out of service.	Repaired
Fitness & Wellness Center				Not Sampled	

Laboratory Certificates may be found in Appendix I.

Once you have reviewed these results, please contact GSE to advise which flush samples you would like sent to the lab for analysis. Please keep in mind that outlets completely taken out of service do not need the flush sample sent, and will be noted as such on the facility specific Drinking Water Outlet Inventories. Additionally, GSE has not sampled at the Fitness and Wellness Center. The Center must be completely unoccupied for two consecutive days so that we can sample.

Thank you for the opportunity to assist you in this project and we look forward to continuing to assist you in the future.

Sincerely,

A handwritten signature in cursive script that reads "Jane Boogaert". The signature is written in black ink and is positioned above the printed name.

Jane Boogaert
Office Manager
Garden State Environmental, Inc.

APPENDIX I

CERTIFICATE OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/10/2022
Report No.: 660320 - Lead Water Rev #2, 5/31/2022
Project: Livingston High School
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421390 Location: Hall By B134a (R) Result(ppb): 2.30
Client No.: LHS-1-WC-02A * Sample acidified to pH <2.

Lab No.: 7421391 Location: Hall By B130a (L) Result(ppb): 2.50
Client No.: LHS-1-WC-01A * Sample acidified to pH <2.

Lab No.: 7421392 Location: Hall By B130a (L) Result(ppb): 2.60
Client No.: LHS-1-BF-01A * Sample acidified to pH <2.

Lab No.: 7421393 Location: Room B133 L Result(ppb): 3.10
Client No.: LHS-1-S-09A * Sample acidified to pH <2.

Lab No.: 7421394 Location: Kitchen 3 Comp L Result(ppb): 2.40
Client No.: LHS-1-SP-01A * Sample acidified to pH <2.

Lab No.: 7421395 Location: Kitchen 3 Comp R Result(ppb): 4.90
Client No.: LHS-1-S-02A * Sample acidified to pH <2.


Lab No.: 7421396 Location: Kitchen Back Island Result(ppb): 3.40
Client No.: LHS-1-SP-02A * Sample acidified to pH <2.

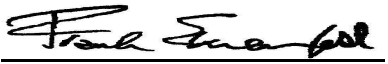
Lab No.: 7421397 Location: Kitchen Middle Island Result(ppb): 3.90
Client No.: LHS-1-S-05A * Sample acidified to pH <2.

Lab No.: 7421398 Location: Comp By Serve Line L Result(ppb): 11.6
Client No.: LHS-1-S-06A * Sample acidified to pH <2.

Lab No.: 7421399 Location: Comp By Serve Line R Result(ppb): 5.70
Client No.: LHS-1-S-07A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/10/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421400 Location: Single Comp Result(ppb): 7.70
Client No.: LHS-1-S-08A * Sample acidified to pH <2.

Lab No.: 7421401 Location: Kitchen Serve Line Result(ppb): <1.00
Client No.: LHS-1-IM-01 * Sample acidified to pH <2.

Lab No.: 7421402 Location: Cafeteria AB Result(ppb): 3.10
Client No.: LHS-1-WC-35A * Sample acidified to pH <2.

Lab No.: 7421403 Location: Cafeteria AB Result(ppb): 2.80
Client No.: LHS-1-BF-08A * Sample acidified to pH <2.

Lab No.: 7421404 Location: C154 Band Room Result(ppb): 2.30
Client No.: LHS-1-WC-40A * Sample acidified to pH <2.

Lab No.: 7421405 Location: C152 Orchestra Result(ppb): 2.90
Client No.: LHS-1-WC-39A * Sample acidified to pH <2.


Lab No.: 7421406 Location: Hall By C152 Result(ppb): 2.40
Client No.: LHS-1-WC-36A * Sample acidified to pH <2.

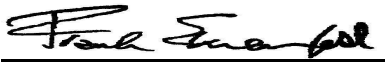
Lab No.: 7421407 Location: Hall By C152 Result(ppb): 3.00
Client No.: LHS-1-BF-09A * Sample acidified to pH <2.

Lab No.: 7421408 Location: Hall By A102 R Result(ppb): 3.10
Client No.: LHS-1-WC-12A * Sample acidified to pH <2.

Lab No.: 7421409 Location: Hall By A102 L Result(ppb): 3.00
Client No.: LHS-1-WC-11A * Sample acidified to pH <2.

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

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Project: Livingston High School
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421410 Location: Hall By A102 L Result(ppb): 2.60
Client No.: LHS-1-BF-03A * Sample acidified to pH <2.

Lab No.: 7421411 Location: Hall By B137 R Result(ppb): 3.00
Client No.: LHS-1-WC-04A * Sample acidified to pH <2.

Lab No.: 7421412 Location: Hall By B137 L Result(ppb): 3.00
Client No.: LHS-1-WC-03A * Sample acidified to pH <2.

Lab No.: 7421413 Location: Hall By B137 L Result(ppb): 3.20
Client No.: LHS-1-BF-05A * Sample acidified to pH <2.

Lab No.: 7421414 Location: B141 Back Wall Result(ppb): 7.60
Client No.: LHS-1-S-11A * Sample acidified to pH <2.

Lab No.: 7421415 Location: B141 Middle Wall R Result(ppb): 11.4
Client No.: LHS-1-S-15A * Sample acidified to pH <2.


Lab No.: 7421416 Location: B141 Middle Wall L Result(ppb): 6.70
Client No.: LHS-1-S-14A * Sample acidified to pH <2.


Lab No.: 7421417 Location: B141 Middle Window L Result(ppb): 4.50
Client No.: LHS-1-S-12A * Sample acidified to pH <2.

Lab No.: 7421418 Location: B141 Middle Window R Result(ppb): 12.0
Client No.: LHS-1-S-13A * Sample acidified to pH <2.

Lab No.: 7421419 Location: Boy Locker Right Result(ppb): 3.20
Client No.: LHS-1-WC-06A * Sample acidified to pH <2.

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

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Client: GAR373		

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421420 Location: Boy Locker Left Result(ppb): Sample Not Received
Client No.: LHS-1-WC-05A * Sample acidified to pH <2.

Lab No.: 7421421 Location: Girls Locker Right Result(ppb): 3.00
Client No.: LHS-1-WC-07A * Sample acidified to pH <2.

Lab No.: 7421422 Location: Girls Locker Left Result(ppb): 3.20
Client No.: LHS-1-WC-08A * Sample acidified to pH <2.

Lab No.: 7421423 Location: Trainer Room Result(ppb): <1.00
Client No.: LHS-1-IM-04 * Sample acidified to pH <2.

Lab No.: 7421424 Location: Trainer Room Result(ppb): 3.40
Client No.: LHS-1-H-02A * Sample acidified to pH <2.

Lab No.: 7421425 Location: Trainer Room Result(ppb): 3.00
Client No.: LHS-1-S-22A * Sample acidified to pH <2.


Lab No.: 7421426 Location: Main Office Result(ppb): 2.90
Client No.: LHS-1-S-16A * Sample acidified to pH <2.

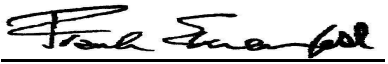
Lab No.: 7421427 Location: Nurse Room B Result(ppb): 2.80
Client No.: LHS-1-S-18A * Sample acidified to pH <2.

Lab No.: 7421428 Location: Hall By D161 Left Result(ppb): 2.80
Client No.: LHS-1-WC-09A * Sample acidified to pH <2.

Lab No.: 7421429 Location: Hall By D161 Right Result(ppb): 3.00
Client No.: LHS-1-BF-02A * Sample acidified to pH <2.

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Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421430 Location: Hall By D161 Right Result(ppb): 3.10
Client No.: LHS-1-WC-10A * Sample acidified to pH <2.

Lab No.: 7421431 Location: Hall By B143 Left Result(ppb): 3.10
Client No.: LHS-1-WC-50A * Sample acidified to pH <2.

Lab No.: 7421432 Location: Hall By B143 Right Result(ppb): 3.10
Client No.: LHS-1-BF-10A * Sample acidified to pH <2.

Lab No.: 7421433 Location: Hall By B143 Right Result(ppb): 3.30
Client No.: LHS-1-WC-51A * Sample acidified to pH <2.

Lab No.: 7421434 Location: Hall By E183 Left Result(ppb): 2.90
Client No.: LHS-1-B-06A * Sample acidified to pH <2.

Lab No.: 7421435 Location: Hall By E183 Left Result(ppb): 3.50
Client No.: LHS-1-B-07A * Sample acidified to pH <2.


Lab No.: 7421436 Location: Hall By S13 Right Result(ppb): 3.00
Client No.: LHS-1-WC-19A * Sample acidified to pH <2.

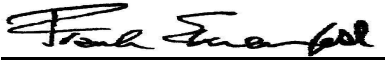
Lab No.: 7421437 Location: Main Office Result(ppb): 3.60
Client No.: LHS-1-S-23A * Sample acidified to pH <2.

Lab No.: 7421438 Location: Main Office Result(ppb): 3.20
Client No.: LHS-1-B-08A * Sample acidified to pH <2.

Lab No.: 7421439 Location: Outside S13 Middle Result(ppb): 2.20
Client No.: LHS-1-WC-18A * Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421440 Location: Outside S13 Left Result(ppb): 3.00
Client No.: LHS-1-WC-17A * Sample acidified to pH <2.

Lab No.: 7421441 Location: Hall By C254 Right Result(ppb): 2.90
Client No.: LHS-2-WC-38A * Sample acidified to pH <2.

Lab No.: 7421442 Location: Hall By C254 Left Result(ppb): 3.00
Client No.: LHS-2-WC-37A * Sample acidified to pH <2.

Lab No.: 7421443 Location: Hall By C254 Left Result(ppb): 3.10
Client No.: LHS-2-BF-07A * Sample acidified to pH <2.

Lab No.: 7421444 Location: Hall By A206 Right Result(ppb): 3.10
Client No.: LHS-2-WC-14A * Sample acidified to pH <2.

Lab No.: 7421445 Location: Hall By A206 Left Result(ppb): 3.00
Client No.: LHS-2-WC-13A * Sample acidified to pH <2.


Lab No.: 7421446 Location: Hall By A206 Left Result(ppb): 3.00
Client No.: LHS-2-BF-04A * Sample acidified to pH <2.

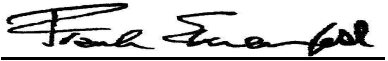
Lab No.: 7421447 Location: Hall By B232 Right Result(ppb): 3.10
Client No.: LHS-2-WC-36A * Sample acidified to pH <2.

Lab No.: 7421448 Location: Hall By B232 Left Result(ppb): 2.90
Client No.: LHS-2-WC-35A * Sample acidified to pH <2.

Lab No.: 7421449 Location: Hall By B232 Left Result(ppb): 3.10
Client No.: LHS-2-BF-06A * Sample acidified to pH <2.

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

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LEAD WATER SAMPLE ANALYSIS SUMMARY

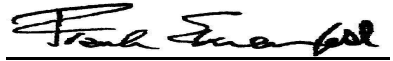
Lab No.: 7421450 **Location:** CIP B234 Front **Result(ppb):** 5.20
Client No.: LHS-2-S-17A * Sample acidified to pH <2.

Lab No.: 7421451 **Location:** CIP B234 Back **Result(ppb):** 14.9
Client No.: LHS-2-H-01A * Sample acidified to pH <2.

Lab No.: 7421452 **Location:** CIP B234 Back **Result(ppb):** 5.00
Client No.: LHS-2-S-21A * Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421454 Client No.: LHS-1-WC-13A	Location: Hall By D261 Left * Sample acidified to pH <2.	Result(ppb): 3.20
Lab No.: 7421455 Client No.: LHS-2-WC-16A	Location: Hall By D261 Right * Sample acidified to pH <2.	Result(ppb): 2.80
Lab No.: 7421456 Client No.: LHS-2-B-03A	Location: Hall By E287 Right * Sample acidified to pH <2.	Result(ppb): 7.80
Lab No.: 7421457 Client No.: LHS-2-B-05A	Location: Hall By E282 Left * Sample acidified to pH <2.	Result(ppb): 3.40
Lab No.: 7421458 Client No.: LHS-2-B-04A	Location: Hall By E282 Right * Sample acidified to pH <2.	Result(ppb): 2.70
Lab No.: 7421459 Client No.: LHS-2-WC-22A	Location: Hall By S23 Right * Sample acidified to pH <2.	Result(ppb): 2.70
Lab No.: 7421460 Client No.: LHS-2-WC-21A	Location: Hall By S23 Middle * Sample acidified to pH <2.	Result(ppb): 2.80
Lab No.: 7421461 Client No.: LHS-2-WC-20A	Location: Hall By S23 Left * Sample acidified to pH <2.	Result(ppb): 2.50
Lab No.: 7421462 Client No.: LHS-4-24-FBA	Location: * Sample acidified to pH <2.	Result(ppb): <1.00

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

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Analyst: Mark Stewart

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Frank E. Ehrenfeld, III
Laboratory Director

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Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421464
Client No.: LHS-2-BF-05A

Location: Additional Sample Received
* Sample acidified to pH <2.


Result(ppb): 3.20


Lab No.: 7421465
Client No.: LHS-1-WC-13A

Location: Additional Sample Received
* Sample acidified to pH <2.

Result(ppb): 3.20

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

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Client: GAR373

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Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: wchampion@iatl.com
iATL Account Representative: Kelly Klippel
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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/10/2022
Report No.: 660320 - Lead Water
Project: Livingston High School
Project No.: 7852

Client: GAR373

Disclaimers / Qualifiers:

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Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/20/2022
Report No.: 661395 - Lead Water
Project: Livingston High School
Project No.: 7852

Client: GAR373


LEAD WATER SAMPLE ANALYSIS SUMMARY


Lab No.: 7429698
Client No.: LHS-1-WC-05A

Location: Boy's Locker Room Aux Gym Left
* Sample acidified to pH <2.

Result(ppb): <1.00

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

Date Received: 5/19/2022
Date Analyzed: 05/20/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/20/2022
Report No.: 661395 - Lead Water
Project: Livingston High School
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: ?wchampion@iatl.com
iATL Account Representative: Kelly Klippel
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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/20/2022
Report No.: 661395 - Lead Water
Project: Livingston High School
Project No.: 7852

Client: GAR373

Disclaimers / Qualifiers:

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Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7429699 **Location:** Faculty Lounge Basement **Result(ppb):** 3.20
Client No.: LHAR-1-S-01A * Sample acidified to pH <2.

Lab No.: 7429700 **Location:** Faculty Room First Floor **Result(ppb):** 8.00
Client No.: LHAR-1-S-02A * Sample acidified to pH <2.

Lab No.: 7429701 **Location:** Room 106 CST **Result(ppb):** 7.40
Client No.: LHAR-1-B-01A * Sample acidified to pH <2.

Lab No.: 7429702 **Location:** Main Office **Result(ppb):** 16.9
Client No.: LHAR-1-S-03A * Sample acidified to pH <2.

Lab No.: 7429703 **Location:** Nurse **Result(ppb):** 5.70
Client No.: LHAR-1-S-04A * Sample acidified to pH <2.

Lab No.: 7429704 **Location:** Hall Outside 102 **Result(ppb):** <1.00
Client No.: LHAR-1-WC-01A * Sample acidified to pH <2.


Lab No.: 7429705 **Location:** Hall Outside 102 **Result(ppb):** <1.00
Client No.: LHAR-1-BF-01A * Sample acidified to pH <2.

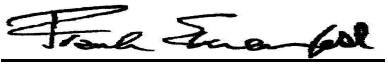
Lab No.: 7429706 **Location:** Hall Outside 203 **Result(ppb):** <1.00
Client No.: LHAR-2-WC-02A * Sample acidified to pH <2.

Lab No.: 7429707 **Location:** Hall Outside 203 **Result(ppb):** <1.00
Client No.: LHAR-2-BF-02A * Sample acidified to pH <2.

Lab No.: 7429708 **Location:** Room 206 **Result(ppb):** 17.9
Client No.: LHAR-2-B-05A * Sample acidified to pH <2.

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

Date Received: 5/19/2022
Date Analyzed: 05/20/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852


Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7429709 Client No.: LHAR-2-B-07A	Location: Room 207 * Sample acidified to pH <2.	Result(ppb): 16.6
Lab No.: 7429710 Client No.: LHAR-2-B-08A	Location: Room 208 * Sample acidified to pH <2.	Result(ppb): 10.8
Lab No.: 7429711 Client No.: LHAR-1-IM-01	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7429712 Client No.: LHAR-1-S-06A	Location: Kitchen 2 Comp Right * Sample acidified to pH <2.	Result(ppb): 23.4
Lab No.: 7429713 Client No.: LHAR-1-S-07A	Location: Kitchen 2 Comp Left * Sample acidified to pH <2.	Result(ppb): 2.70
Lab No.: 7429714 Client No.: LHAR-1-WC-03A	Location: Cafe Right * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7429715 Client No.: LHAR-1-WC-04A	Location: Cafe Left * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7429716 Client No.: LHAR-1-B-09A	Location: Hall Outside Multi Purpose Room * Sample acidified to pH <2.	Result(ppb): 9.50
Lab No.: 7429717 Client No.: LHAR-1-B-11A	Location: Room K-3 * Sample acidified to pH <2.	Result(ppb): 9.50
Lab No.: 7429718 Client No.: LHAR-1-B-10A	Location: Room 3 * Sample acidified to pH <2.	Result(ppb): 7.30

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

Date Received: 5/19/2022
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7429719 Location: Reading Room Result(ppb): 12.5
Client No.: LHAR-1-B-12A * Sample acidified to pH <2.

Lab No.: 7429720 Location: Room K-4 Result(ppb): 5.70
Client No.: LHAR-1-B-13A * Sample acidified to pH <2.

Lab No.: 7429721 Location: Room 5 Result(ppb): 4.20
Client No.: LHAR-1-B-16A * Sample acidified to pH <2.

Lab No.: 7429722 Location: Room K-1 Result(ppb): 10.5
Client No.: LHAR-1-B-14A * Sample acidified to pH <2.

Lab No.: 7429723 Location: Room K-2 Result(ppb): 6.30
Client No.: LHAR-1-B-15A * Sample acidified to pH <2.

Lab No.: 7429724 Location: Room 18 Result(ppb): 5.70
Client No.: LHAR-1-B-17A * Sample acidified to pH <2.


Lab No.: 7429725 Location: Room 19 Result(ppb): 6.80
Client No.: LHAR-1-B-18A * Sample acidified to pH <2.

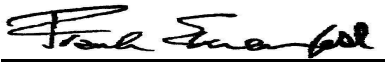
Lab No.: 7429726 Location: Room 20 Result(ppb): 2.30
Client No.: LHAR-1-B-19A * Sample acidified to pH <2.

Lab No.: 7429727 Location: Room 17 Result(ppb): 14.0
Client No.: LHAR-1-B-22A * Sample acidified to pH <2.

Lab No.: 7429728 Location: Outside Girl's Room/Room 16 Result(ppb): <1.00
Client No.: LHAR-1-WC-05A * Sample acidified to pH <2.

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

Date Received: 5/19/2022
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Frank E. Ehrenfeld, III
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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7429729 Location: Outside Girl's Restroom/Room 16 Result(ppb): <1.00
Client No.: LHAR-1-BF-04A * Sample acidified to pH <2.

Lab No.: 7429730 Location: Room 16 Result(ppb): 6.10
Client No.: LHAR-1-B-23A * Sample acidified to pH <2.

Lab No.: 7429731 Location: Outside Boy's Restroom /Room 16 Result(ppb): <1.00
Client No.: LHAR-1-WC-06A * Sample acidified to pH <2.

Lab No.: 7429732 Location: Outside Boy's Restroom /Room 16 Result(ppb): <1.00
Client No.: LHAR-1-BF-05A * Sample acidified to pH <2.

Lab No.: 7429733 Location: Room 10 Result(ppb): 7.10
Client No.: LHAR-1-B-25A * Sample acidified to pH <2.

Lab No.: 7429734 Location: Room 15 Result(ppb): 11.7
Client No.: LHAR-1-B-24A * Sample acidified to pH <2.


Lab No.: 7429735 Location: Room 14 Result(ppb): 9.00
Client No.: LHAR-1-B-27A * Sample acidified to pH <2.


Lab No.: 7429736 Location: Room 11 Result(ppb): 4.90
Client No.: LHAR-1-B-26A * Sample acidified to pH <2.

Lab No.: 7429737 Location: Room 13 Result(ppb): 17.9
Client No.: LHAR-1-B-29A * Sample acidified to pH <2.

Lab No.: 7429738 Location: Room 12 Result(ppb): 5.80
Client No.: LHAR-1-B-28A * Sample acidified to pH <2.

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Date Received: 5/19/2022
Date Analyzed: 05/20/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7429739 Location: SG: 1 1 Result(ppb): 3.10
Client No.: LHAR-1-B-30A * Sample acidified to pH <2.

Lab No.: 7429740 Location: SG: 1 2 Result(ppb): 3.50
Client No.: LHAR-1-B-31A * Sample acidified to pH <2.

Lab No.: 7429741 Location: SG: 1 3 Result(ppb): 2.90
Client No.: LHAR-1-B-32A * Sample acidified to pH <2.


Lab No.: 7429742 Location: Outside Gym Left Result(ppb): <1.00
Client No.: LHAR-1-WC-07A * Sample acidified to pH <2.


Lab No.: 7429743 Location: Outside Gym Left Result(ppb): <1.00
Client No.: LHAR-1-BF-06A * Sample acidified to pH <2.

Lab No.: 7429744 Location: Outside Gym Right Result(ppb): <1.00
Client No.: LHAR-1-WC-08A * Sample acidified to pH <2.

Lab No.: 7429745 Location: Result(ppb): <1.00
Client No.: LHAR-4-20-FBA * Sample acidified to pH <2.

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

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Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
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Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

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- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/20/2022
Report No.: 661396 - Lead Water
Project: Harrison; ES; Livingston
Project No.: 7852

Client: GAR373

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421670 **Location:** Room 1 **Result(ppb):** 11.0
Client No.: LBH-1-B-01A * Sample acidified to pH <2.

Lab No.: 7421671 **Location:** Kitchen, 3 Comp **Result(ppb):** 5.90
Client No.: LBH-1-S-01A * Sample acidified to pH <2.

Lab No.: 7421672 **Location:** Kitchen, 3 Comp **Result(ppb):** 5.20
Client No.: LBH-1-SP-01A * Sample acidified to pH <2.

Lab No.: 7421673 **Location:** Room 2 **Result(ppb):** 1.60
Client No.: LBP-1-B-02A * Sample acidified to pH <2.

Lab No.: 7421674 **Location:** Room 3 **Result(ppb):** <1.00
Client No.: LBH-1-B-03A * Sample acidified to pH <2.

Lab No.: 7421675 **Location:** Hall By Main Office L **Result(ppb):** <1.00
Client No.: LBH-1-WC-01A * Sample acidified to pH <2.


Lab No.: 7421676 **Location:** Hall By Main Office L **Result(ppb):** <1.00
Client No.: LBH-1-BF-01A * Sample acidified to pH <2.


Lab No.: 7421677 **Location:** Hall By Main Office R **Result(ppb):** <1.00
Client No.: LBH-1-WC-02A * Sample acidified to pH <2.

Lab No.: 7421678 **Location:** Hall By Activity Rm L **Result(ppb):** <1.00
Client No.: LBH-1-WC-03A * Sample acidified to pH <2.

Lab No.: 7421679 **Location:** Hall By Activity Rm L **Result(ppb):** <1.00
Client No.: LBH-1-BF-02A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421680 **Location:** Hall By Activity Rm R **Result(ppb):** <1.00
Client No.: LBH-1-WC-04A * Sample acidified to pH <2.

Lab No.: 7421681 **Location:** Room 34 **Result(ppb):** 12.0
Client No.: LBH-1-B-20A * Sample acidified to pH <2.

Lab No.: 7421682 **Location:** Room 33 **Result(ppb):** 2.30
Client No.: LBH-1-B-21A * Sample acidified to pH <2.

Lab No.: 7421683 **Location:** Room 28 **Result(ppb):** 2.90
Client No.: LBH-1-B-22A * Sample acidified to pH <2.

Lab No.: 7421684 **Location:** Room 29 **Result(ppb):** 8.10
Client No.: LBH-1-B-23A * Sample acidified to pH <2.

Lab No.: 7421685 **Location:** Room 32 **Result(ppb):** 3.10
Client No.: LBH-1-B-32A * Sample acidified to pH <2.

Lab No.: 7421686 **Location:** Room 30 **Result(ppb):** 1.80
Client No.: LBH-1-B-25A * Sample acidified to pH <2.

Lab No.: 7421687 **Location:** Room 17 **Result(ppb):** 9.10
Client No.: LBH-1-B-08A * Sample acidified to pH <2.

Lab No.: 7421688 **Location:** Room 26 **Result(ppb):** 3.80
Client No.: LBH-1-B-09A * Sample acidified to pH <2.

Lab No.: 7421689 **Location:** Hall By Room 26 **Result(ppb):** 74.0
Client No.: LBH-1-B-10A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421690 Location: Room 18 Result(ppb): 4.80
Client No.: LBH-1-B-11A * Sample acidified to pH <2.

Lab No.: 7421691 Location: Room 25 Result(ppb): 9.30
Client No.: LBH-1-B-12A * Sample acidified to pH <2.

Lab No.: 7421692 Location: Room 19 Result(ppb): 3.70
Client No.: LBH-1-B-13A * Sample acidified to pH <2.

Lab No.: 7421693 Location: Room 20 Result(ppb): <1.00
Client No.: LBH-1-B-15A * Sample acidified to pH <2.

Lab No.: 7421694 Location: Room 21 Result(ppb): <1.00
Client No.: LBH-1-B-14A * Sample acidified to pH <2.

Lab No.: 7421695 Location: Room 22 Result(ppb): <1.00
Client No.: LBH-1-B-16A * Sample acidified to pH <2.


Lab No.: 7421696 Location: Room 37 Result(ppb): <1.00
Client No.: LBH-1-B-17A * Sample acidified to pH <2.


Lab No.: 7421697 Location: Nurse Result(ppb): 1.60
Client No.: LBH-1-S-02A * Sample acidified to pH <2.

Lab No.: 7421698 Location: Room 4 Result(ppb): 2.50
Client No.: LBH-1-B-04A * Sample acidified to pH <2.

Lab No.: 7421699 Location: Faculty Room Result(ppb): 2.60
Client No.: LBH-1-S-03A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
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Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421700 **Location:** Room 5 **Result(ppb):** <1.00
Client No.: LBH-1-B-05A * Sample acidified to pH <2.

Lab No.: 7421701 **Location:** Room 10 **Result(ppb):** <1.00
Client No.: LBH-1-S-05A * Sample acidified to pH <2.

Lab No.: 7421702 **Location:** Hall By Gym **Result(ppb):** <1.00
Client No.: LBH-1-WC-05A * Sample acidified to pH <2.

Lab No.: 7421703 **Location:** Hall By Gym **Result(ppb):** <1.00
Client No.: LBH-1-BF-03A * Sample acidified to pH <2.

Lab No.: 7421704 **Location:** Hall By Gym **Result(ppb):** <1.00
Client No.: LBH-1-WC-06A * Sample acidified to pH <2.

Lab No.: 7421705 **Location:** **Result(ppb):** <1.00
Client No.: LBH-4-20-FBA * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: ?wchampion@iatl.com
iATL Account Representative: Kelly Klippel
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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660333 - Lead Water
Project: Burnet Hill ES Livingston
Project No.: 7852

Client: GAR373

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.

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421790 **Location:** Hall By Custodial **Result(ppb):** <1.00
Client No.: LCO-1-WC-01A * Sample acidified to pH <2.

Lab No.: 7421791 **Location:** Hall By Custodial **Result(ppb):** <1.00
Client No.: LCO-1-BF-01A * Sample acidified to pH <2.

Lab No.: 7421792 **Location:** Hall By Custodial **Result(ppb):** <1.00
Client No.: LCO-1-WC-02A * Sample acidified to pH <2.

Lab No.: 7421793 **Location:** Room 12 **Result(ppb):** 5.20
Client No.: LCO-1-B-03A * Sample acidified to pH <2.

Lab No.: 7421794 **Location:** Room 14 **Result(ppb):** 9.30
Client No.: LCO-1-B-05A * Sample acidified to pH <2.

Lab No.: 7421795 **Location:** Room 13 **Result(ppb):** 3.10
Client No.: LCO-1-B-04A * Sample acidified to pH <2.

Lab No.: 7421796 **Location:** Room 15 **Result(ppb):** 1.40
Client No.: LCO-1-B-06A * Sample acidified to pH <2.

Lab No.: 7421797 **Location:** Room 16 **Result(ppb):** 4.70
Client No.: LCO-1-B-07A * Sample acidified to pH <2.

Lab No.: 7421798 **Location:** Room 17 **Result(ppb):** 3.90
Client No.: LCO-1-B-08A * Sample acidified to pH <2.

Lab No.: 7421799 **Location:** Room 18 **Result(ppb):** 1.50
Client No.: LCO-1-B-09A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/16/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421800 Location: Hall By MC Left Result(ppb): <1.00
Client No.: LCO-1-WC-03A * Sample acidified to pH <2.

Lab No.: 7421801 Location: Hall By MC Left Result(ppb): <1.00
Client No.: LCO-1-BF-02A * Sample acidified to pH <2.

Lab No.: 7421802 Location: Hall By MC Result(ppb): <1.00
Client No.: LCO-1-WC-04A * Sample acidified to pH <2.

Lab No.: 7421803 Location: Hall By Music Room Result(ppb): <1.00
Client No.: LCO-1-WC-06A * Sample acidified to pH <2.

Lab No.: 7421804 Location: Hall By Music Room Result(ppb): <1.00
Client No.: LCO-1-BF-03A * Sample acidified to pH <2.

Lab No.: 7421805 Location: Hall By Music Room Result(ppb): <1.00
Client No.: LCO-1-WC-05A * Sample acidified to pH <2.


Lab No.: 7421806 Location: Room 19 Result(ppb): 1.00
Client No.: LCO-1-B-21A * Sample acidified to pH <2.

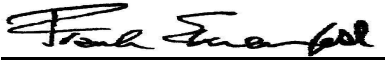
Lab No.: 7421807 Location: Room 20 Result(ppb): 3.10
Client No.: LCO-1-B-22A * Sample acidified to pH <2.

Lab No.: 7421808 Location: Room 21 Result(ppb): <1.00
Client No.: LCO-1-B-23A * Sample acidified to pH <2.

Lab No.: 7421809 Location: Room 22 Result(ppb): <1.00
Client No.: LCO-1-B-24A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
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Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421810 Location: Room 24 Result(ppb): <1.00
Client No.: LCO-1-B-25A * Sample acidified to pH <2.

Lab No.: 7421811 Location: Room 23 Result(ppb): <1.00
Client No.: LCO-1-B-32A * Sample acidified to pH <2.

Lab No.: 7421812 Location: Room 26 Result(ppb): 6.60
Client No.: LCO-1-B-26A * Sample acidified to pH <2.

Lab No.: 7421813 Location: Room 25 Result(ppb): <1.00
Client No.: LCO-1-B-27A * Sample acidified to pH <2.

Lab No.: 7421814 Location: Room 27 Result(ppb): 3.10
Client No.: LCO-1-B-28A * Sample acidified to pH <2.

Lab No.: 7421815 Location: Room 28 Result(ppb): 3.10
Client No.: LCO-1-B-29A * Sample acidified to pH <2.

Lab No.: 7421816 Location: Hall By Room 29 Result(ppb): <1.00
Client No.: LCO-1-WC-07A * Sample acidified to pH <2.

Lab No.: 7421817 Location: Hall By Room 29 Result(ppb): <1.00
Client No.: LCO-1-BF-04A * Sample acidified to pH <2.

Lab No.: 7421818 Location: Hall By Room 29 Result(ppb): <1.00
Client No.: LCO-1-WC-08A * Sample acidified to pH <2.

Lab No.: 7421819 Location: Room 29 Result(ppb): 3.20
Client No.: LCO-1-B-30A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/16/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421820 Client No.: LCO-1-S-01A	Location: Kitchen 3 Comp * Sample acidified to pH <2.	Result(ppb): 2.00
Lab No.: 7421821 Client No.: LCO-1-IM-01	Location: Kitchen Ice Machine * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421822 Client No.: LCO-1-S-03A	Location: Faculty Room * Sample acidified to pH <2.	Result(ppb): 2.50
Lab No.: 7421823 Client No.: LCO-1-B-13A	Location: Room 7 * Sample acidified to pH <2.	Result(ppb): 4.00
Lab No.: 7421824 Client No.: LCO-1-B-14A	Location: Room 6 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421825 Client No.: LCO-1-B-15A	Location: Room 4 * Sample acidified to pH <2.	Result(ppb): 2.00
Lab No.: 7421826 Client No.: LCO-1-B-16A	Location: Room K-3 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421827 Client No.: LCO-1-B-18A	Location: Room K-1 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421828 Client No.: LCO-1-B-17A	Location: Room K-2 * Sample acidified to pH <2.	Result(ppb): 3.90
Lab No.: 7421829 Client No.: LCO-4-21-FBA	Location: * Sample acidified to pH <2.	Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/16/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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.

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iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Kelly Klippel
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

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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.

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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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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.

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PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660336 - Lead Water
Project: Collins ES Livingston
Project No.: 7852

Client: GAR373

Disclaimers / Qualifiers:

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Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Client: GAR373


Report Date: 5/12/2022
Report No.: 660326 - Lead Water
Project: Riker Hill; Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421544 Client No.: LRH-1-B-02A	Location: Room K-2 * Sample acidified to pH <2.	Result(ppb): 11.3
Lab No.: 7421545 Client No.: LRH-1-B-03A	Location: Room K-3 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421546 Client No.: LRH-1-B-01A	Location: Room K-1 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421547 Client No.: LRH-1-S-01A	Location: Faculty 35A * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421548 Client No.: LRH-1-S-02A	Location: Nurse, Back * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421549 Client No.: LRH-1-S-03A	Location: Nurse, Front * Sample acidified to pH <2.	Result(ppb): 2.00
Lab No.: 7421550 Client No.: LRH-1-WC-03A	Location: Hall By Main Office R * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421551 Client No.: LRH-1-BF-01A	Location: Hall By Main Office R * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421552 Client No.: LRH-1-WC-04A	Location: Hall By Main Office L * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421553 Client No.: LRH-1-S-04A	Location: Main Office * Sample acidified to pH <2.	Result(ppb): 2.10

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Report Date: 5/12/2022
Report No.: 660326 - Lead Water
Project: Riker Hill; Livingston
Project No.: 7852


Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421554 Client No.: LRH-1-S-07A	Location: Kitchen Single Comp * Sample acidified to pH <2.	Result(ppb): 12.2
Lab No.: 7421555 Client No.: LRH-1-S-06A	Location: Kitchen 3 Comp * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421556 Client No.: LRH-1-H-01A	Location: Kitchen 3 Comp * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421557 Client No.: LRH-1-B-05A	Location: Room 15 * Sample acidified to pH <2.	Result(ppb): 11.6
Lab No.: 7421558 Client No.: LRH-1-B-06A	Location: Room 17 * Sample acidified to pH <2.	Result(ppb): 1.30
Lab No.: 7421559 Client No.: LRH-1-B-07A	Location: Room 16 * Sample acidified to pH <2.	Result(ppb): 3.30
Lab No.: 7421560 Client No.: LRH-1-B-08A	Location: Room 18 * Sample acidified to pH <2.	Result(ppb): 14.0
Lab No.: 7421561 Client No.: LRH-1-B-09A	Location: Room 19 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421562 Client No.: LRH-1-B-10A	Location: Room 21 * Sample acidified to pH <2.	Result(ppb): 1.80
Lab No.: 7421563 Client No.: LRH-1-B-11A	Location: Room 20 * Sample acidified to pH <2.	Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Report Date: 5/12/2022
Report No.: 660326 - Lead Water
Project: Riker Hill; Livingston
Project No.: 7852


Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421564 Client No.: LRH-1-B-12A	Location: Room 22 * Sample acidified to pH <2.	Result(ppb): 5.30
Lab No.: 7421565 Client No.: LRH-1-B-13A	Location: Room 23 * Sample acidified to pH <2.	Result(ppb): 1.60
Lab No.: 7421566 Client No.: LRH-1-WC-05A	Location: Hall By 12, R * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421567 Client No.: LRH-1-BF-02A	Location: Hall By 12, R * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421568 Client No.: LRH-1-WC-06A	Location: Hall By 12, L * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421569 Client No.: LRH-1-B-14A	Location: Room 12 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421570 Client No.: LRH-1-B-15A	Location: Room 11 * Sample acidified to pH <2.	Result(ppb): 2.20
Lab No.: 7421571 Client No.: LRH-1-B-16A	Location: Room 9 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421572 Client No.: LRH-1-B-17A	Location: Room 7 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421573 Client No.: LRH-1-B-18A	Location: Room 5 * Sample acidified to pH <2.	Result(ppb): 1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/12/2022
Report No.: 660326 - Lead Water
Project: Riker Hill; Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421574 Client No.: LRH-1-B-19A	Location: Room 6 * Sample acidified to pH <2.	Result(ppb): 1.30
Lab No.: 7421575 Client No.: LRH-1-B-20A	Location: Room 4 * Sample acidified to pH <2.	Result(ppb): 1.00
Lab No.: 7421576 Client No.: LRH-1-B-21A	Location: Room 3 * Sample acidified to pH <2.	Result(ppb): 1.00
Lab No.: 7421577 Client No.: LRH-1-B-22A	Location: Room 1 * Sample acidified to pH <2.	Result(ppb): 14.1
Lab No.: 7421578 Client No.: LRH-1-B-23A	Location: Room 2 * Sample acidified to pH <2.	Result(ppb): 8.80
Lab No.: 7421579 Client No.: LRH-1-WC-01A	Location: Outside 24 L * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421580 Client No.: LRH-1-WC-02A	Location: Outside 24 R * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421581 Client No.: LRH-1-BF-03A	Location: Outside 24 L * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421582 Client No.: LRH-1-B-28A	Location: Room 30 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421583 Client No.: LRH-21-FBA	Location: * Sample acidified to pH <2.	Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature:
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Frank E. Ehrenfeld, III
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Client: Garden State Environmental, Inc.
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Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/12/2022
Report No.: 660326 - Lead Water
Project: Riker Hill; Livingston
Project No.: 7852

Client: GAR373

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.

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Client: GAR373


Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421628 Client No.: LHER-B-S-01A	Location: Maintenance * Sample acidified to pH <2.	Result(ppb): 1.70
Lab No.: 7421629 Client No.: LHER-B-B-06A	Location: Hall By Boy Locker * Sample acidified to pH <2.	Result(ppb): 1.40
Lab No.: 7421630 Client No.: LHER-B-B-01A	Location: Boys Locker Rm * Sample acidified to pH <2.	Result(ppb): 2.60
Lab No.: 7421631 Client No.: LHER-B-B-04A	Location: Girls Locker Rm * Sample acidified to pH <2.	Result(ppb): 2.60
Lab No.: 7421632 Client No.: LHER-B-WC-03A	Location: Hall By Gym (R) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421633 Client No.: LHER-B-BF-01A	Location: Hall By Gym (R) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421634 Client No.: LHER-B-WC-04A	Location: Hall By Gym (L) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421635 Client No.: LHER-B-WC-05A	Location: Hall By Staff BR (L) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421636 Client No.: LHER-B-BF-02A	Location: Hall By Staff BR (L) * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7421637 Client No.: LHER-B-WC-06A	Location: Hall By Staff BR (R) * Sample acidified to pH <2.	Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421638 Location: Hall By Rm 211 Result(ppb): <1.00
Client No.: LHER-1-WC-07A * Sample acidified to pH <2.

Lab No.: 7421639 Location: Hall By Rm 211 Result(ppb): <1.00
Client No.: LHER-1-BF-03A * Sample acidified to pH <2.

Lab No.: 7421640 Location: Hall By 211 Left Result(ppb): <1.00
Client No.: LHER-1-WC-08A * Sample acidified to pH <2.

Lab No.: 7421641 Location: Rm 219 Result(ppb): <1.00
Client No.: LHER-1-S-15A * Sample acidified to pH <2.

Lab No.: 7421642 Location: Rm 213 Result(ppb): 2.40
Client No.: LHER-1-S-06A * Sample acidified to pH <2.

Lab No.: 7421643 Location: Rm 213 Result(ppb): <1.00
Client No.: LHER-1-S-05A * Sample acidified to pH <2.


Lab No.: 7421644 Location: Rm 215 Result(ppb): <1.00
Client No.: LHER-1-S-04A * Sample acidified to pH <2.

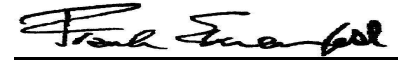
Lab No.: 7421645 Location: Rm 213 Result(ppb): <1.00
Client No.: LHER-1-S-03A * Sample acidified to pH <2.

Lab No.: 7421646 Location: Rm 213 Result(ppb): 1.00
Client No.: LHER-1-S-02A * Sample acidified to pH <2.

Lab No.: 7421647 Location: Outside 215 L Result(ppb): <1.00
Client No.: LHER-1-WC-09A * Sample acidified to pH <2.

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Date Received: 5/4/2022
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Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421648 Location: Outside 215 R Result(ppb): <1.00
Client No.: LHER-1-WC-10A * Sample acidified to pH <2.

Lab No.: 7421649 Location: Faculty Rm Result(ppb): 1.00
Client No.: LHER-1-S-07A * Sample acidified to pH <2.

Lab No.: 7421650 Location: Faculty Rm Result(ppb): 10.5
Client No.: LHER-1-B-12A * Sample acidified to pH <2.

Lab No.: 7421651 Location: Kitchen Result(ppb): <1.00
Client No.: LHER-1-IM-01 * Sample acidified to pH <2.

Lab No.: 7421652 Location: Kitchen Center Island Result(ppb): 2.10
Client No.: LHER-1-S-08A * Sample acidified to pH <2.

Lab No.: 7421653 Location: Kitchen Back Right Result(ppb): 7.50
Client No.: LHER-1-S-11A * Sample acidified to pH <2.


Lab No.: 7421654 Location: Kitchen Back Middle Result(ppb): 3.30
Client No.: LHER-1-S-10A * Sample acidified to pH <2.


Lab No.: 7421655 Location: Kitchen Back Left Result(ppb): <1.00
Client No.: LHER-1-S-09A * Sample acidified to pH <2.

Lab No.: 7421656 Location: Cafe Right (R) Result(ppb): <1.00
Client No.: LHER-1-WC-15A * Sample acidified to pH <2.

Lab No.: 7421657 Location: Cafe Right (L) Result(ppb): <1.00
Client No.: LHER-1-WC-16A * Sample acidified to pH <2.

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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421658 Location: Cafe Right (R) Result(ppb): <1.00
Client No.: LHER-1-BF-07A * Sample acidified to pH <2.

Lab No.: 7421659 Location: Cafe Left (R) Result(ppb): <1.00
Client No.: LHER-1-WC-14A * Sample acidified to pH <2.

Lab No.: 7421660 Location: Cafe Left (L) Result(ppb): <1.00
Client No.: LHER-1-WC-13A * Sample acidified to pH <2.

Lab No.: 7421661 Location: Cafe Left (L) Result(ppb): <1.00
Client No.: LHER-1-BF-06A * Sample acidified to pH <2.

Lab No.: 7421662 Location: Hall By 221 (R) Result(ppb): <1.00
Client No.: LHER-1-WC-11A * Sample acidified to pH <2.

Lab No.: 7421663 Location: Hall By 221 (L) Result(ppb): <1.00
Client No.: LHER-1-WC-12A * Sample acidified to pH <2.


Lab No.: 7421664 Location: Hall By 221 (R) Result(ppb): <1.00
Client No.: LHER-1-BF-05A * Sample acidified to pH <2.


Lab No.: 7421665 Location: Nurse Result(ppb): 3.00
Client No.: LHER-1-B-14A * Sample acidified to pH <2.

Lab No.: 7421666 Location: Nurse Result(ppb): 10.4
Client No.: LHER-1-S-12A * Sample acidified to pH <2.

Lab No.: 7421667 Location: Outside 311 (L) Result(ppb): <1.00
Client No.: LHER-2-WC-17A * Sample acidified to pH <2.

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Date Received: 5/4/2022
Date Analyzed: 05/13/2022
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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421668
Client No.: LHER-2-WC-18A

Location: Outside 311 (R)
* Sample acidified to pH <2.


Result(ppb): <1.00


Lab No.: 7421669
Client No.: LHER-4-22-FBA

Location:
* Sample acidified to pH <2.

Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: ?wchampion@iatl.com
iATL Account Representative: Kelly Klippel
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

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Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

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PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/13/2022
Report No.: 660332 - Lead Water
Project: Heritage MS Livingston
Project No.: 7852

Client: GAR373

Disclaimers / Qualifiers:

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Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660334 - Lead Water
Project: Hillside ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421706 **Location:** Room 3 **Result(ppb):** <1.00
Client No.: LHIL-1-B-01A * Sample acidified to pH <2.

Lab No.: 7421707 **Location:** Room 5 **Result(ppb):** <1.00
Client No.: LHIL-1-B-31A * Sample acidified to pH <2.

Lab No.: 7421708 **Location:** Room 4 **Result(ppb):** 3.60
Client No.: LHIL-1-B-02A * Sample acidified to pH <2.

Lab No.: 7421709 **Location:** Room 7 **Result(ppb):** 1.80
Client No.: LHIL-1-B-03A * Sample acidified to pH <2.

Lab No.: 7421710 **Location:** Room 6 **Result(ppb):** 4.80
Client No.: LHIL-1-B-04A * Sample acidified to pH <2.

Lab No.: 7421711 **Location:** Hall By Room 6 (L) **Result(ppb):** <1.00
Client No.: LHIL-1-WC-01A * Sample acidified to pH <2.


Lab No.: 7421712 **Location:** Hall By Room 6 (R) **Result(ppb):** <1.00
Client No.: LHIL-1-WC-02A * Sample acidified to pH <2.


Lab No.: 7421713 **Location:** Hall By Room 6 (R) **Result(ppb):** <1.00
Client No.: LHIL-1-BF-01A * Sample acidified to pH <2.

Lab No.: 7421714 **Location:** Room 8 **Result(ppb):** 9.00
Client No.: LHIL-1-B-05A * Sample acidified to pH <2.

Lab No.: 7421715 **Location:** Room 11 **Result(ppb):** <1.00
Client No.: LHIL-1-B-08A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660334 - Lead Water
Project: Hillside ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421716 **Location:** Room 13 **Result(ppb):** 4.00
Client No.: LHIL-1-B-09A * Sample acidified to pH <2.

Lab No.: 7421717 **Location:** Room 12B **Result(ppb):** 5.50
Client No.: LHIL-1-B-12A * Sample acidified to pH <2.

Lab No.: 7421718 **Location:** Room 15 **Result(ppb):** 5.90
Client No.: LHIL-1-B-13A * Sample acidified to pH <2.

Lab No.: 7421719 **Location:** Hall By 15 Right **Result(ppb):** <1.00
Client No.: LHIL-1-WC-04A * Sample acidified to pH <2.

Lab No.: 7421720 **Location:** Hall By 15 Left **Result(ppb):** <1.00
Client No.: LHIL-1-WC-03A * Sample acidified to pH <2.

Lab No.: 7421721 **Location:** Hall By 15 Left **Result(ppb):** <1.00
Client No.: LHIL-1-BF-02A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/13/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660334 - Lead Water
Project: Hillside ES Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421722 Location: Room Faculty Result(ppb): 3.00
Client No.: LHIL-2-S-02A * Sample acidified to pH <2.

Lab No.: 7421723 Location: Room 110 Result(ppb): 5.20
Client No.: LHIL-2-B-16A * Sample acidified to pH <2.

Lab No.: 7421724 Location: Room 111 Result(ppb): <1.00
Client No.: LHIL-2-B-17A * Sample acidified to pH <2.

Lab No.: 7421725 Location: Room 112 Result(ppb): 2.50
Client No.: LHIL-2-B-18A * Sample acidified to pH <2.

Lab No.: 7421726 Location: Room 113 Result(ppb): 3.70
Client No.: LHIL-2-B-19A * Sample acidified to pH <2.

Lab No.: 7421727 Location: Room 114 Result(ppb): 2.70
Client No.: LHIL-2-B-20A * Sample acidified to pH <2.


Lab No.: 7421728 Location: Room 107 Result(ppb): 1.00
Client No.: LHIL-2-B-22A * Sample acidified to pH <2.

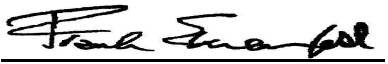
Lab No.: 7421729 Location: Hall By 135 Left Result(ppb): <1.00
Client No.: LHIL-2-WC-05A * Sample acidified to pH <2.

Lab No.: 7421730 Location: Hall By 135 Right Result(ppb): <1.00
Client No.: LHIL-2-WC-06A * Sample acidified to pH <2.

Lab No.: 7421731 Location: Hall By 135 Right Result(ppb): <1.00
Client No.: LHIL-2-BF-03A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/16/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/16/2022
Report No.: 660334 - Lead Water
Project: Hillside ES Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421732 Location: Hall By Media C (L) Result(ppb): <1.00
Client No.: LHIL-2-B-23A * Sample acidified to pH <2.

Lab No.: 7421733 Location: Kitchen By Stove Result(ppb): <1.00
Client No.: LHIL-2-IM-01 * Sample acidified to pH <2.

Lab No.: 7421734 Location: Kitchen By Stove Result(ppb): 1.10
Client No.: LHIL-2-H-01A * Sample acidified to pH <2.

Lab No.: 7421735 Location: Kitchen 3 Comp Result(ppb): 2.70
Client No.: LHIL-2-S-03A * Sample acidified to pH <2.

Lab No.: 7421736 Location: Nurse Result(ppb): <1.00
Client No.: LHIL-2-S-05A * Sample acidified to pH <2.

Lab No.: 7421737 Location: Room 104 Result(ppb): 3.90
Client No.: LHIL-2-B-26A * Sample acidified to pH <2.


Lab No.: 7421738 Location: Room 102 Result(ppb): 5.50
Client No.: LHIL-2-B-27A * Sample acidified to pH <2.


Lab No.: 7421739 Location: Room 100 Result(ppb): 8.10
Client No.: LHIL-2-B-29A * Sample acidified to pH <2.

Lab No.: 7421740 Location: Room 101 Result(ppb): 5.00
Client No.: LHIL-2-B-30A * Sample acidified to pH <2.

Lab No.: 7421741 Location: Result(ppb): <1.00
Client No.: LHIL-4-22-FBA * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/16/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/16/2022
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Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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iATL Account Representative: Kelly Klippel
Sample Login Notes: See Batch Sheet Attached
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- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

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- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/16/2022
Report No.: 660334 - Lead Water
Project: Hillside ES Livingston
Project No.: 7852

Client: GAR373

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.

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660323 - Lead Water
Project: BOE/Admin Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY


Lab No.: 7421473 **Location:** Ground Floor Kitchen **Result(ppb):** <1.00
Client No.: LAdmin-B-S-01A * Sample acidified to pH <2.


Lab No.: 7421474 **Location:** Kitchen **Result(ppb):** 1.40
Client No.: LAdmin-1-S-02A * Sample acidified to pH <2.

Lab No.: 7421475 **Location:** Kitchen **Result(ppb):** <1.00
Client No.: LAdmin-1-SP-01A * Sample acidified to pH <2.

Lab No.: 7421476 **Location:** **Result(ppb):** <1.00
Client No.: LAdmin-4-23-FBA * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/11/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660323 - Lead Water
Project: BOE/Admin Livingston
Project No.: 7852

Client: GAR373

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: ?wchampion@iatl.com
iATL Account Representative: Kelly Klippel
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

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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.

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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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660323 - Lead Water
Project: BOE/Admin Livingston
Project No.: 7852

Client: GAR373

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Note: Sample dilution required due to matrix interference.

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

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421486 Location: Kitchen Result(ppb): 3.40
Client No.: LMP-1-IM-01 * Sample acidified to pH <2.

Lab No.: 7421487 Location: Kitchen 3 Comp R Result(ppb): 2.20
Client No.: LMP-1-S-03A * Sample acidified to pH <2.

Lab No.: 7421488 Location: Kitchen 3 Comp L Result(ppb): <1.00
Client No.: LMP-1-S-02A * Sample acidified to pH <2.

Lab No.: 7421489 Location: Kitchen 2 Comp R Result(ppb): 2.30
Client No.: LMP-1-S-05A * Sample acidified to pH <2.

Lab No.: 7421490 Location: Kitchen 2 Comp L Result(ppb): 1.70
Client No.: LMP-1-S-04A * Sample acidified to pH <2.

Lab No.: 7421491 Location: Cafeteria R Result(ppb): <1.00
Client No.: LMP-1-WC-08A * Sample acidified to pH <2.


Lab No.: 7421492 Location: Cafeteria R Result(ppb): <1.00
Client No.: LMP-1-BF-03A * Sample acidified to pH <2.

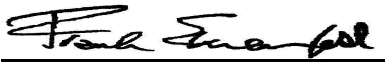
Lab No.: 7421493 Location: Cafeteria L Result(ppb): <1.00
Client No.: LMP-1-WC-09A * Sample acidified to pH <2.

Lab No.: 7421494 Location: Room 7 Result(ppb): 9.00
Client No.: LMP-1-B-13A * Sample acidified to pH <2.

Lab No.: 7421495 Location: Hall By CST, L Result(ppb): <1.00
Client No.: LMP-1-WC-03A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/11/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Client: GAR373


LEAD WATER SAMPLE ANALYSIS SUMMARY


Lab No.:7421496 **Location:**Hall By CST, R **Result(ppb):**<1.00
Client No.:LMP-1-WC-04A * Sample acidified to pH <2.

Lab No.:7421497 **Location:**Hall By CST, R **Result(ppb):**<1.00
Client No.:LMP-1-BF-02A * Sample acidified to pH <2.

Lab No.:7421498 **Location:**ES Nurse **Result(ppb):**1.00
Client No.:LMP-1-S-06A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/11/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421499 Location: Room 8 Result(ppb): 1.10
Client No.: LMP-1-B-12A * Sample acidified to pH <2.

Lab No.: 7421500 Location: Room 9 Result(ppb): 1.50
Client No.: LMP-1-B-11A * Sample acidified to pH <2.

Lab No.: 7421501 Location: Room 10 Result(ppb): 12.7
Client No.: LMP-1-B-10A * Sample acidified to pH <2.

Lab No.: 7421502 Location: Hall By Multi Purpose L Result(ppb): <1.00
Client No.: LMP-1-WC-11A * Sample acidified to pH <2.

Lab No.: 7421503 Location: Hall By Multi Purpose R Result(ppb): <1.00
Client No.: LMP-1-WC-10A * Sample acidified to pH <2.

Lab No.: 7421504 Location: Hall By Multi Purpose R Result(ppb): <1.00
Client No.: LMP-1-BF-04A * Sample acidified to pH <2.


Lab No.: 7421505 Location: Room 6 Result(ppb): 2.40
Client No.: LMP-1-B-15A * Sample acidified to pH <2.

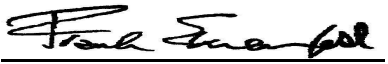
Lab No.: 7421506 Location: Room 5 Result(ppb): 1.00
Client No.: LMP-1-B-16A * Sample acidified to pH <2.

Lab No.: 7421507 Location: Room 2B Result(ppb): 3.50
Client No.: LMP-1-B-17A * Sample acidified to pH <2.

Lab No.: 7421508 Location: Room 2A Result(ppb): 4.90
Client No.: LMP-1-B-19A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421509 Location: Room 1 Result(ppb): 5.70
Client No.: LMP-1-B-20A * Sample acidified to pH <2.

Lab No.: 7421510 Location: ES Faculty Room Result(ppb): <1.00
Client No.: LMP-1-S-07A * Sample acidified to pH <2.

Lab No.: 7421511 Location: Hall By Room 101 R Result(ppb): 2.40
Client No.: LMP-1-B-22A * Sample acidified to pH <2.

Lab No.: 7421512 Location: Hall By Room 101 L Result(ppb): <1.00
Client No.: LMP-1-B-21A * Sample acidified to pH <2.

Lab No.: 7421513 Location: Room 13 Result(ppb): <1.00
Client No.: LMP-1-B-09A * Sample acidified to pH <2.

Lab No.: 7421514 Location: Room 14 Result(ppb): <1.00
Client No.: LMP-1-B-08A * Sample acidified to pH <2.


Lab No.: 7421515 Location: Room 16 Result(ppb): <1.00
Client No.: LMP-1-B-07A * Sample acidified to pH <2.

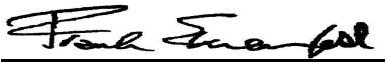
Lab No.: 7421516 Location: Room 15 Result(ppb): <1.00
Client No.: LMP-1-B-06A * Sample acidified to pH <2.

Lab No.: 7421517 Location: Room 17A Result(ppb): 3.90
Client No.: LMP-1-B-05A * Sample acidified to pH <2.

Lab No.: 7421518 Location: Outside Room 18 R Result(ppb): 3.70
Client No.: LMP-1-B-03A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421519 Location: Outside Room 18 L Result(ppb): 9.00
Client No.: LMP-1-B-02A * Sample acidified to pH <2.

Lab No.: 7421520 Location: Room 17B Result(ppb): 1.80
Client No.: LMP-1-B-04A * Sample acidified to pH <2.

Lab No.: 7421521 Location: Room 18 Result(ppb): 2.60
Client No.: LMP-1-B-31A * Sample acidified to pH <2.

Lab No.: 7421522 Location: Room 19 Result(ppb): 1.00
Client No.: LMP-1-B-01A * Sample acidified to pH <2.

Lab No.: 7421523 Location: MS Faculty Room Result(ppb): <1.00
Client No.: LMP-1-S-15A * Sample acidified to pH <2.

Lab No.: 7421524 Location: Boys Locker Room Result(ppb): 5.40
Client No.: LMP-1-B-23A * Sample acidified to pH <2.


Lab No.: 7421525 Location: Hall By MS Gym R Result(ppb): <1.00
Client No.: LMP-1-WC-06A * Sample acidified to pH <2.

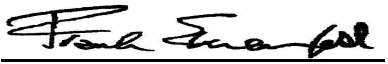
Lab No.: 7421526 Location: Hall By MS Gym R Result(ppb): <1.00
Client No.: LMP-1-BF-01A * Sample acidified to pH <2.

Lab No.: 7421527 Location: Hall By MS Gym L Result(ppb): <1.00
Client No.: LMP-1-WC-05A * Sample acidified to pH <2.

Lab No.: 7421528 Location: Girls Locker Room Result(ppb): 3.90
Client No.: LMP-1-B-24A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421529 **Location:** Hall By Auditorium **Result(ppb):** <1.00
Client No.: LMP-1-B-25A * Sample acidified to pH <2.

Lab No.: 7421530 **Location:** Hall By 117 **Result(ppb):** <1.00
Client No.: LMP-1-WC-07A * Sample acidified to pH <2.

Lab No.: 7421531 **Location:** Room 117 Far Left **Result(ppb):** <1.00
Client No.: LMP-1-S-08A * Sample acidified to pH <2.

Lab No.: 7421532 **Location:** Room 117 Back Wall L **Result(ppb):** 4.70
Client No.: LMP-1-S-09A * Sample acidified to pH <2.

Lab No.: 7421533 **Location:** Room 117 Middle Left **Result(ppb):** 1.90
Client No.: LMP-1-S-10A * Sample acidified to pH <2.

Lab No.: 7421534 **Location:** Room 117 Middle Right **Result(ppb):** 1.80
Client No.: LMP-1-S-11A * Sample acidified to pH <2.


Lab No.: 7421535 **Location:** Room 117 Back Wall R **Result(ppb):** 2.10
Client No.: LMP-1-S-12A * Sample acidified to pH <2.

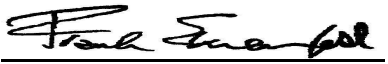
Lab No.: 7421536 **Location:** MS Nurse **Result(ppb):** <1.00
Client No.: LMP-1-S-13A * Sample acidified to pH <2.

Lab No.: 7421537 **Location:** MS Nurse **Result(ppb):** <1.00
Client No.: LMP-1-B-26A * Sample acidified to pH <2.

Lab No.: 7421538 **Location:** MS Main Office **Result(ppb):** <1.00
Client No.: LMP-1-B-32A * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452


Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852


Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421539 Client No.: LMP-1-B-29A	Location: Outside 206 Left * Sample acidified to pH <2.	Result(ppb): 1.90
Lab No.: 7421540 Client No.: LMP-1-B-30A	Location: Outside 206 Right * Sample acidified to pH <2.	Result(ppb): 2.40
Lab No.: 7421541 Client No.: LMP-1-B-28A	Location: Outside 214 Right * Sample acidified to pH <2.	Result(ppb): 2.50
Lab No.: 7421542 Client No.: LMP-1-B-27A	Location: Outside 214 Left * Sample acidified to pH <2.	Result(ppb): 1.10
Lab No.: 7421543 Client No.: LMP-4-23-FBA	Location: * Sample acidified to pH <2.	Result(ppb): <1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/12/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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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.

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Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660325 - Lead Water
Project: Mt Pleasant Livingston
Project No.: 7852

Client: GAR373

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CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Report Date: 5/11/2022
Report No.: 660324 - Lead Water
Project: Monmouth Court Livingston
Project No.: 7852

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7421477 **Location:** Basement Hall **Result(ppb):** <1.00
Client No.: LMC-B-WC-01A * Sample acidified to pH <2.

Lab No.: 7421478 **Location:** Basement Hall **Result(ppb):** <1.00
Client No.: LMC-B-BF-01A * Sample acidified to pH <2.

Lab No.: 7421479 **Location:** Room 103 **Result(ppb):** 5.40
Client No.: LMC-B-S-07A * Sample acidified to pH <2.

Lab No.: 7421480 **Location:** Basement Kitchen L **Result(ppb):** 57.2
Client No.: LMC-B-S-01A * Sample acidified to pH <2.

Lab No.: 7421481 **Location:** Basement Kitchen R **Result(ppb):** 1.90
Client No.: LMC-B-S-02A * Sample acidified to pH <2.


Lab No.: 7421482 **Location:** Upstair Hall **Result(ppb):** 111
Client No.: LMC-2-WC-02A * Sample acidified to pH <2.


Lab No.: 7421483 **Location:** Room 216 **Result(ppb):** 65.6
Client No.: LMC-2-S-05A * Sample acidified to pH <2.

Lab No.: 7421484 **Location:** Room 213 **Result(ppb):** 29.2
Client No.: LMC-2-S-06A * Sample acidified to pH <2.

Lab No.: 7421485 **Location:** **Result(ppb):** <1.00
Client No.: LMC-4-23-FBA * Sample acidified to pH <2.

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

Date Received: 5/4/2022
Date Analyzed: 05/11/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/11/2022
Report No.: 660324 - Lead Water
Project: Monmouth Court Livingston
Project No.: 7852

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
Analysis: AAS-GF - ASTM D3559-08D

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: wchampion@iatl.com
iATL Account Representative: Kelly Klippel
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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

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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.

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.