

Chain of Custody

– Environmental Lead –

Contact Information

Client Company: Garden State Environmental, Inc.

Office Address: 555 South Broad Street

City, State, Zip: Glen Rock, NJ 07452

Fax Number: 201-652-0612

Email Address: labreports@gseconsultants.com

Project Number: 8362

Project Name: Chesterfield ES

Primary Contact: Kaitlynn Pireo (GSE)

Office Phone: 201-652-1119

Cell Phone:

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

Matrix/Method:

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

Special Instructions:

Turnaround Time

Preliminary Results Requested Date: _____ ☐ Verbal ☒ Email ☐ Fax

Specific date / time

☐ 10 Day ☒ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization): Kaitlynn Pireo (GSE)

Received (Name / iATL):

Sample Login (Name / iATL):

Analysis(Name(s) / iATL):

QA/QC Review (Name / iATL):

Archived / Released: _____ QA/QC InterLAB Use: _____

Date: 1-25-22 Time: 10:00am

Date: _____ Time: _____

Date: _____ Time: _____

Date: 1/31/22 Time: _____

Date: _____ Time: _____

Date: _____ Time: _____

RECEIVED

JAN 26 2022

iATL - By

Sample Log

—Environmental Lead—

Client: Garden State Environmental, inc Project: 8362: Chesterfield Elementary School

Sampling Date/Time: 1-15-22 8:49 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
CES-I-B220-SB-PA	7350910	Room B220		8:49 am	initial		
CES-L-B101-TF-PA	7350911	Room B101		9:01 am	initial		
CES-L-B103-SB-PA	7350912	Room B103		9:06 am	initial		
CES-L-B108-SB-PA	7350913	Room B108		9:11 am	initial		
CES-L-B109-SB-PA	7350914	Room B109		9:16 am	initial		
CES-L-HB112-WC2-PA	7350915	Hall by B112 (R)		9:23 am	initial		
CES-L-HB112-WC1-PA	7350916	Hall by B112 (L)		9:23 am	initial		
CES-L-B116-SB-PA	7350917	Room B116		9:27 am	initial		
CES-L-B118-SB-PA	7350918	Room B118		9:32 am	initial		
CES-L-B117-SB-PA	7350919	Room B117		9:35 am	initial		
CES-L-B122-SB-PA	7350920	Room B122		9:45 am	initial		
CES-L-B123-SB-PA	7350920	Room B123		9:49 am	initial		
CES-I-B221-SB-PA	7350921	Room B221		9:56 am	initial		
CES-I-B222-SB-PA	7350922	Room B222		10:00 am	initial		
CES-I-B223-SB-PA	7350923	Room B223		10:04 am	initial		

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

Sample Log

—Environmental Lead—

Client: Garden State Environmental, Inc Project: 8362: Chesterfield Elementary School

Sampling Date/Time: 1-15-22 8:49am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
CES-1-B224-SB-PA	7350905	Room B224		10:08 am	initial		
CES-1-B227-SB-PA	7350906	Room B227		10:16 am	initial		
CES-1-B228-SB-PA	7350907	Room B228		10:21 am	initial		
CES-1-B230-SB-PA	7350908	Room B230		10:25 am	initial		
CES-1-HB233-W2-PA	7350909	Hall by B233 (R)		10:37 am	initial		
CES-1-HB233-W1-PA	7350910	Hall by B233 (L)		10:37 am	initial		
CES-1-B236-SB-PA	7350911	Room B236		10:42 am	initial		
CES-1-B235-SB-PA	7350912	Room B235		10:46 am	initial		
CES-1-B242-SB-PA	7350913	Room B242		10:54 am	initial		
CES-1-B244-SB-PA	7350914	Room B244		10:59 am	initial		
CES-1-B245-SB-PA	7350915	Room B245		11:03 am	initial		
CES-1-HGym-W1-PA	7350916	Hall by Gym (L)		11:11 am	initial		
CES-1-HGym-W2-PA	7350917	Hall by Gym (R)		11:11 am	initial		
CES-1-A203-TF-PA	7350918	Room A203		11:16 am	initial		
CES-1-A205-TF-PA	7350919	Room A205		11:20 am	initial		

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Sample Log

—Environmental Lead—

Client: Garden State Environmental, Inc Project: 8362: Chesterfield Elementary School

Sampling Date/Time: 1/15/22 8:49 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
CES-1-A201-TF-PA	7350040	Room A201		11:24 am	initial		
CES-1-Nurse-NS1-PA	7350041	Nurse (main area)		11:30 am	initial		
CES-1-Nurse-SB-PA	7350042	Nurse (main area)		11:32 am	initial		
CES-1-Nurse-NS2-PA	7350043	Nurse (kitchen)		11:34 am	initial		
CES-1-HCAF-WC1-PA	7350044	Hall by cafe (L)		11:44 am	initial		
CES-1-HCAF-WC2-PA	7350045	Hall by cafe (R)		11:44 am	initial		
CES-1-B252-TF-PA	7350046	Room B252		11:47 am	initial		
CES-1-Kitchen-FP1-PA	7350047	Kitchen next to IM		11:51 am	initial		
CES-1-Kitchen-IMP	7350048	Kitchen Ice Machine		11:55 am	initial		
CES-1-DS-01A	7350049	Kitchen (L) of Dishwasher		12:00 pm	initial		
CES-1-S-17A	7350050	Kitchen (R) of Dishwasher		12:03 pm	initial		
CES-1-S-18A	7350051	Kitchen (M) Island front of Kettle		12:07 pm	initial		
CES-1-S-19A	7350052	Kitchen (M) Island front of serving line		12:09 pm	initial		
CES-1-K-01A	7350053	Kitchen next to stove		12:12 pm	initial		
CES-1-Kitchen-FP3-PA	7350054	Kitchen		12:15 pm	initial		

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Sample Log

—Environmental Lead—

Client: Garden State Environmental, Inc Project: 8362: Chestertown Field Elementary School

Sampling Date/Time: 1-15-22 8:49 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft ²) Volume (L)	Results ()
CES-1-Kitchen-FB4-PA	7350055	Kitchen		12:17 pm	initial		
CES-1-S-20A	7350056	Kitchen 3 comp (L) by Exit Door		12:23 pm	initial		
CES-1-S-21A	7350057	Kitchen 3 comp (R) by Exit Door		12:26 pm	initial		
CES-1-B246-SB-PA	7350058	Room B246		12:31 pm	initial		
CES-1-B247-SB-PA	7350059	Room B247		12:35 pm	initial		
CES-V-B303-TF-PA	7350060	Room B303		12:40 pm	initial		
CES-V-HB317-WC2-PA	7350061	Hall by B317 (R)		12:46 pm	initial		
CES-V-HB317-WC1-PA	7350062	Hall by B317 (L)		12:46 pm	initial		
CES-2022-PFBA	7350063	Field Blank		/	initial		
	Acidified m/s						
	1/26/22 LISO						

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CERTIFICATE OF ANALYSIS

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

Report Date: 1/31/2022
Report No.: 651407 - Lead Water
Project: Chesterfield ES
Project No.: 8362

Client: GAR373

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7350910 Location: Room B220 Result(ppb): <1.00
Client No.: CES-L-B220-SB-PA * Sample acidified to pH <2.

Lab No.: 7350911 Location: Room B101 Result(ppb): <1.00
Client No.: CES-L-B101-TF-PA * Sample acidified to pH <2.

Lab No.: 7350912 Location: Room B103 Result(ppb): 1.10
Client No.: CES-L-B103-SB-PA * Sample acidified to pH <2.

Lab No.: 7350913 Location: Room B108 Result(ppb): 1.20
Client No.: CES-L-B108-SB-PA * Sample acidified to pH <2.

Lab No.: 7350914 Location: Room B109 Result(ppb): <1.00
Client No.: CES-L-B109-SB-PA * Sample acidified to pH <2.

Lab No.: 7350915 Location: Hall By B112 (R) Result(ppb): <1.00
Client No.: CES-L-HB112-WC2-PA * Sample acidified to pH <2.


Lab No.: 7350916 Location: Hall By B112 (L) Result(ppb): <1.00
Client No.: CES-L-HB112-WC1-PA * Sample acidified to pH <2.


Lab No.: 7350917 Location: Room B116 Result(ppb): <1.00
Client No.: CES-L-B116-SB-PA * Sample acidified to pH <2.

Lab No.: 7350918 Location: Room B118 Result(ppb): <1.00
Client No.: CES-L-B118-SB-PA * Sample acidified to pH <2.

Lab No.: 7350919 Location: Room B117 Result(ppb): <1.00
Client No.: CES-L-B117-SB-PA * Sample acidified to pH <2.

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

Date Received: 1/26/2022
Date Analyzed: 01/31/2022
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: 1/31/2022
Report No.: 651407 - Lead Water
Project: Chesterfield ES
Project No.: 8362

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7350920 Client No.: CES-L-B122-SB-PA	Location: Room B122 * Sample acidified to pH <2.	Result(ppb): 1.60
Lab No.: 7350921 Client No.: CES-L-B123-SB-PA	Location: Room B123 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7350922 Client No.: CES-1-B221-SB-PA	Location: Room B221 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7350923 Client No.: CES-1-B222-SB-PA	Location: Room B222 * Sample acidified to pH <2.	Result(ppb): 1.20
Lab No.: 7350924 Client No.: CES-1-B223-SB-PA	Location: Room B223 * Sample acidified to pH <2.	Result(ppb): 8.80
Lab No.: 7350925 Client No.: CES-1-B224-SB-PA	Location: Room B224 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7350926 Client No.: CES-1-B227-SB-PA	Location: Room B227 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7350927 Client No.: CES-1-B228-SB-PA	Location: Room B228 * Sample acidified to pH <2.	Result(ppb): 1.30
Lab No.: 7350928 Client No.: CES-1-B230-SB-PA	Location: Room B230 * Sample acidified to pH <2.	Result(ppb): 1.90
Lab No.: 7350929 Client No.: CES-1-HB223-WC2-PA	Location: Hall BY B233 (R) * Sample acidified to pH <2.	Result(ppb): <1.00

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7350930 Location: Hall By B233 (L) Result(ppb): <1.00
Client No.: CES-1-HB233-WC1-PA * Sample acidified to pH <2.

Lab No.: 7350931 Location: Room B236 Result(ppb): <1.00
Client No.: CES-1-B236-SB-PA * Sample acidified to pH <2.

Lab No.: 7350932 Location: Room B235 Result(ppb): 1.40
Client No.: CES-1-B235-SB-PA * Sample acidified to pH <2.

Lab No.: 7350933 Location: Room B242 Result(ppb): <1.00
Client No.: CES-1-B242-SB-PA * Sample acidified to pH <2.

Lab No.: 7350934 Location: Room B244 Result(ppb): 2.90
Client No.: CES-1-B244-SB-PA * Sample acidified to pH <2.

Lab No.: 7350935 Location: Room B245 Result(ppb): <1.00
Client No.: CES-1-B245-SB-PA * Sample acidified to pH <2.


Lab No.: 7350936 Location: Hall By Gym (L) Result(ppb): <1.00
Client No.: CES-1-HGYM-WC1-PA * Sample acidified to pH <2.


Lab No.: 7350937 Location: Hall By Gym (R) Result(ppb): <1.00
Client No.: CES-1-HGYM-WC2-PA * Sample acidified to pH <2.

Lab No.: 7350938 Location: Room A203 Result(ppb): 27.0
Client No.: CES-1-A203-TF-PA * Sample acidified to pH <2.

Lab No.: 7350939 Location: Room A205 Result(ppb): <1.00
Client No.: CES-1-A205-TF-PA * Sample acidified to pH <2.

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

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Project No.: 8362

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7350940 Location: Room A201 Result(ppb): <1.00
Client No.: CES-1-A201-TF-PA * Sample acidified to pH <2.

Lab No.: 7350941 Location: Nurse (Main Area) Result(ppb): <1.00
Client No.: CES-1-NURSE-NS1-PA * Sample acidified to pH <2.

Lab No.: 7350942 Location: Nurse (Main Area) Result(ppb): 2.00
Client No.: CES-1-NURSE-SB-PA * Sample acidified to pH <2.

Lab No.: 7350943 Location: Nurse (Kitchen) Result(ppb): <1.00
Client No.: CES-1-NURSE-NS2-PA * Sample acidified to pH <2.

Lab No.: 7350944 Location: Hall By Cafe (L) Result(ppb): <1.00
Client No.: CES-1-HCAF-WC1-PA * Sample acidified to pH <2.

Lab No.: 7350945 Location: Hall By Cafe (R) Result(ppb): <1.00
Client No.: CES-1-HCAF-WC2-PA * Sample acidified to pH <2.


Lab No.: 7350946 Location: Room B252 Result(ppb): <1.00
Client No.: CES-1-B252-TF-PA * Sample acidified to pH <2.

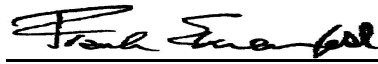
Lab No.: 7350947 Location: Kitchen Next To IM Result(ppb): 1.40
Client No.: CES-1-KITCHEN-FP1-PA * Sample acidified to pH <2.

Lab No.: 7350948 Location: Kitchen Ice Machine Result(ppb): <1.00
Client No.: CES-1-KITCHEN-IM-P * Sample acidified to pH <2.

Lab No.: 7350949 Location: Kitchen (L) Of Dish Washer Result(ppb): <1.00
Client No.: CES-1-DS-01A * 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.: 7350950 **Location:** Kitchen (R) Of Dish Washer **Result(ppb):** <1.00
Client No.: CES-1-S-17A * Sample acidified to pH <2.

Lab No.: 7350951 **Location:** Kitchen (M) Island Front Of Kettle **Result(ppb):** <1.00
Client No.: CES-1-S-18A * Sample acidified to pH <2.

Lab No.: 7350952 **Location:** Kitchen (M) Island Front Of Serving Line **Result(ppb):** <1.00
Client No.: CES-1-S-19A * Sample acidified to pH <2.

Lab No.: 7350953 **Location:** Kitchen Next To Stove **Result(ppb):** 11.9
Client No.: CES-1-K-01A * Sample acidified to pH <2.

Lab No.: 7350954 **Location:** Kitchen **Result(ppb):** <1.00
Client No.: CES-1-KITCHEN-FP3-PA * Sample acidified to pH <2.

Lab No.: 7350955 **Location:** Kitchen **Result(ppb):** <1.00
Client No.: CES-1-KITCHEN-FB4-PA * Sample acidified to pH <2.


Lab No.: 7350956 **Location:** Kitchen 3 Compt (L) By Exit Door **Result(ppb):** 2.60
Client No.: CES-1-S-20A * Sample acidified to pH <2.


Lab No.: 7350957 **Location:** Kitchen 3 Compt (R) By Exit Door **Result(ppb):** <1.00
Client No.: CES-1-S-21A * Sample acidified to pH <2.

Lab No.: 7350958 **Location:** Room B246 **Result(ppb):** <1.00
Client No.: CES-1-B246-SB-PA * Sample acidified to pH <2.

Lab No.: 7350959 **Location:** Room B247 **Result(ppb):** 1.40
Client No.: CES-1-B-247-SB-PA * Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY


Lab No.: 7350960 Location: Room B303 Result(ppb): <1.00
Client No.: CES-U-B303-TF-PA * Sample acidified to pH <2.

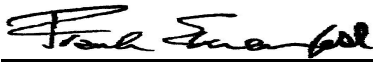
Lab No.: 7350961 Location: Hall By B317 (R) Result(ppb): <1.00
Client No.: CES-U-HB317-WC2-PA * Sample acidified to pH <2.

Lab No.: 7350962 Location: Hall By B317 (L) Result(ppb): <1.00
Client No.: CES-U-HB317-WC1-PA * Sample acidified to pH <2.

Lab No.: 7350963 Location: Field Blank Result(ppb): <1.00
Client No.: CES-2022-PFBA * Sample acidified to pH <2.

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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

Client: GAR373

Report Date: 1/31/2022
Report No.: 651407 - Lead Water
Project: Chesterfield ES
Project No.: 8362

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.