

March 7, 2022

Ref: 21336.22



Mr. Ronald Wybraniec
Operations Manager
Office of Education
New Jersey Department of Children and Families
PO Box 710
Trenton, NJ 08625

Re: Lead in Drinking Water Testing
DCF Regional School – Cape May Campus
131 Crest Haven Road
Cape May Court House, NJ 08210
Project No. 21336.22

Dear Mr. Wybraniec,

Vanasse Hangen Brustlin Inc. (VHB) was retained to perform drinking water testing at the New Jersey Department of Children and Families (DCF) Regional School's Cape May Campus located 131 Crest Haven Road, Cape May Court House, New Jersey (subject property). VHB performed the sampling on February 26, 2022. The purpose of the testing was to determine if lead may be present above the established regulatory limits in Client-identified drinking water sources within the subject building.

METHODS

Samples of potable water were collected from each location where water may be used for drinking or food preparation. Sampling protocol included the following:

Samples were collected on a Saturday when the school was not occupied.

- The sample locations were flushed for several minutes by the Client the day prior to collecting the samples.
- The Client was instructed to not use water from the sampling locations during the overnight period or morning prior to collecting the samples.
- Samples were collected at the Client-identified sampling locations starting with the location nearest to the water service point of entry to the building.
- Each sampling location was inspected for evidence that the water had been used that day prior to collecting the first draw samples (i.e. dripping faucet, water residue in basin).
- Each location was checked to verify whether water treatment (filter/bubbler) was or was not in use.
- Two (2) samples were collected at each location. The first sample is a first-draw sample collected from the tap

1805 Atlantic Avenue

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P 732.223.2225



- after the overnight resting period. The second is a flush sample collected after running water for 30 seconds.
- Samples were collected in 250 mL bottles.
 - Bottles were labeled, and chain-of-custody completed for each sample.
 - Samples were dropped off at the laboratory.
 - The laboratory accessioned the samples and added the necessary preservatives within the allowable timeframe.

Samples were delivered under chain-of-custody to IATL International, Inc., 9000 Commerce Parkway Suite B, Mt. Laurel, New Jersey 08054. IATL is a New Jersey Department of Environmental Protection (NJDEP) Certified Drinking Water Laboratory.

The regulatory limits for lead in drinking water are established by the United States Environmental Protection Agency (EPA) under the Safe Drinking Water Act – Lead and Copper Rule (LCR). The LCR established an action level of 0.015 mg/L (15 ppb). The New Jersey Department of Education (NJDOE) and New Jersey Department of Health (NJDOH) have adopted this limit as well.

RESULTS

TABLE 1 SUMMARY OF LABORATORY ANALYSIS RESULTS – LEAD (Pb)					
Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)
CM-01-FD	FD	Office 105	Yes	<1.00	15
CM-02-FL	FL	Office 105	Yes	NA	15
CM-03-FD	FD	Kitchen	Yes	<1.00	15
CM-04-FL	FL	Kitchen	Yes	NA	15
CM-05-FD	FD	Kitchen Ice Machine	Yes	<1.00	15
CM-06-FL	FL	Kitchen Ice Machine	Yes	NA	15
CM-07-FD	FD	Room 120	Yes	<1.00	15
CM-08-FL	FL	Room 120	Yes	NA	15
CM-09-FD	FD	Room 125	Yes	<1.00	15
CM-10-FL	FL	Room 125	Yes	NA	15
CM-11-FD	FD	Room 107	Yes	<1.00	15
CM-12-FL	FL	Room 107	Yes	NA	15
CM-13-FD	FD	Room 108	Yes	<1.00	15
CM-14-FL	FL	Room 108	Yes	NA	15
CM-15-FD	FD	Room 115	Yes	<1.00	15
CM-16-FL	FL	Room 115	Yes	NA	15
CM-17-FD	FD	Room 111	Yes	<1.00	15
CM-18-FL	FL	Room 111	Yes	NA	15

MCL – Maximum Contaminant Level; NA – Not Analyzed; FD – First Draw; FL – Flush

Laboratory analysis results of the lead sampling indicate the concentrations were below the laboratory regulatory limits for lead at each test location. Flush samples were not analyzed because there were no exceedances reported in the first draw results. Certificates of laboratory analysis are presented in **Appendix I**.



LIMITATIONS

Results should not be considered to reflect conditions at other tap locations in the facility. The findings in this report are reflective of the conditions at the time of the VHB inspections. The findings and recommendations are valid as of the date of the report. The conclusions are limited based on the site conditions at the time of our inspection and the enclosed analytical results.

Please do not hesitate to contact the undersigned at 732-223-2225 if you have questions and/or comments or require additional information.

Respectfully submitted,

VANASSE HANGEN BRUSTLIN, INC.

A handwritten signature in blue ink, appearing to read "Chris Glowacki".

Christopher Glowacki, CIH, CIEC
Senior Project Manager

TH:CG

APPENDIX I

LABORATORY CERTIFICATES OF ANALYSIS

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Client: VHB973

Report Date: 3/4/2022
Report No.: 654452 - Lead Water
Project: Cape May
Project No.: 21336.22

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375184 Client No.: CM-01-FD	Location: Office 105 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375185 Client No.: CM-02-FL	Location: Office 105 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375186 Client No.: CM-03-FD	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375187 Client No.: CM-04-FL	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375188 Client No.: CM-05-FD	Location: Kitchen Ice Machine * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375189 Client No.: CM-06-FL	Location: Kitchen Ice Machine * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375190 Client No.: CM-07-FD	Location: 120 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375191 Client No.: CM-08-FL	Location: 120 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375192 Client No.: CM-09-FD	Location: 125 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375193 Client No.: CM-10-FL	Location: 125 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed

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

Date Received: 2/26/2022
Date Analyzed: 03/04/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Client: VHB973

Report Date: 3/4/2022
Report No.: 654452 - Lead Water
Project: Cape May
Project No.: 21336.22

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7375194 Client No.: CM-11-FD	Location: 107 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375195 Client No.: CM-12-FL	Location: 107 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375196 Client No.: CM-13-FD	Location: 108 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375197 Client No.: CM-14-FL	Location: 108 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375198 Client No.: CM-15-FD	Location: 115 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375199 Client No.: CM-16-FL	Location: 115 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7375200 Client No.: CM-17-FD	Location: 111 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7375201 Client No.: CM-18-FL	Location: 111 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed

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

Date Received: 2/26/2022
Date Analyzed: 03/04/2022
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Client: VHB973

Report Date: 3/4/2022
Report No.: 654452 - Lead Water
Project: Cape May
Project No.: 21336.22

Appendix to Analytical Report:

Customer Contact: Chris Glowacki
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: Vanasse Hangen Brustlin, Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 3/4/2022
Report No.: 654452 - Lead Water
Project: Cape May
Project No.: 21336.22

Client: VHB973

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.

Chain of Custody

– Environmental Lead –

Contact Information

Client Company: VHB
Office Address: 1805 Atlantic Avenue
City, State, Zip: Manasquan, NJ 08742
Fax Number:
Email Address: Thalter@vhb.com, CGlowacki@vhb.com

Project Number: 21336.22
Project Name: ~~Ocean County~~ Cape May
Primary Contact: Chris Glowacki
Office Phone: 7322232225
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 NJ Lead in Drinking Water

Special Instructions:

FD=First Draw, FL=Flush, Flush samples only to be analyzed if exceedance of limits on First Draw Sample

Turnaround Time

Preliminary Results Requested Date: _____
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***

RECEIVED

Chain of Custody

Relinquished (Name/Organization): John VHB Date: 2/16/22 Time: 1230
Received (Name / iATL): _____ Date: _____ Time: FEB 26 2022
Sample Login (Name / iATL): L428122 Date: _____ Time: _____
Analysis(Name(s) / iATL): MSF Date: 3/4/22 Time: _____
QA/QC Review (Name / iATL): L317122 Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: iATL - By

Sample Log

—Environmental Lead—

Client: **21336.22**

Project: **Cape May County**

Sampling Date/Time: 2/26/22 940-

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
CM-01-FD	7375184	Office 105		2/26/22	940	250m L	
CM-02-FL	7375185	Office 105			942		
CM-03-FD	7375186	Kitchen			945		
CM-04-FL	7375187	Kitchen			947		
CM-05-FD	7375188	Kitchen Ice Machine			950		
CM-06-FL	7375189	Kitchen Ice Machine			958		
CM-07-FD	7375190	120			1000		
CM-08-FL	7375191	120			1002		
CM-09-FD	7375192	125			1003		
CM-10-FL	7375193	125			1005		
CM-11-FD	7375194	107			1007		
CM-12-FL	7375195	107			1008		
CM-13-FD	7375196	108			1010		
CM-14-FL	7375197	108			1012		
CM-15-FD	7375198	115			1015		

* = 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

Client: Cape May ^{TA} NJ DCF - Essex Campus Project: 21336.22
-Environmental Lead -

Sampling Date/Time: 2/26/12 940-1019

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
CM-16-FL	7375199	115		2/26/12	1016	250mL	
CM-17-FD	7375200	111		↓	1018	↓	
CM-18-FL	7375201	111		↓	1019	↓	
	Acidified m5						
	3/1/12 22130						

* = 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.

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