June 12, 2024

Ref: 21689.18

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

Re: Lead and Copper in Drinking Water Testing

DCF Regional School – Cumberland Campus

928 West Sherman Avenue

Vineland, NJ 08360

Dear Mr. Lenahan,

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 Cumberland Campus located 928 West Sherman Avenue, Vineland, New Jersey (subject property). VHB performed the sampling on June 4, 2024. The purpose of the testing was to determine if lead or copper may be present above the established regulatory limits in Client-identified drinking water sources within the subject building.

www.vhb.com

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 in the early morning before staff and students arrived for the day.
- 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 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.

1805 Atlantic Avenue

Engineers | Scientists | Planners | Designers

Manasquan, New Jersey 08736

DCF Cape May Campus Drinking Water Testing Ref: 21689.18 June 12, 2024 Page 2



• 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 and copper 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) for lead and 1.3 mg/L (1300 ppb) for copper. The New Jersey Department of Education (NJDOE) and New Jersey Department of Health (NJDOH) have adopted these limits as well.

RESULTS

TABLE 1 SUMMARY OF LABORATORY ANALYSIS RESULTS – LEAD (Pb)								
CU-01-FD	FD	Kitchen	Yes	<1.00	15			
CU-01-FL	FL	Kitchen	Yes	NA	15			
CU-02-FD	FD	Room 105	Yes	<1.00	15			
CU-02-FL	FL	Room 105	Yes	NA	15			
CU-03-FD	FD	Room 107	Yes	<1.00	15			
CU-03-FL	FL	Room 107	Yes	NA	15			
CU-04-FD	FD	Room 108	Yes	2.80	15			
CU-04-FL	FL	Room 108	Yes	NA	15			
CU-05-FD	FD	Room 110	Yes	<1.00	15			
CU-05-FL	FL	Room 110	Yes	NA	15			
CU-06-FD	FD	Room 109	Yes	<1.00	15			
CU-06-FL	FL	Room 109	Yes	NA	15			
CU-07-FD	FD	Room 106	Yes	<1.00	15			
CU-07-FL	FL	Room 106	Yes	NA	15			
CU-08-FD	FD	Hallway Water	Yes	<1.00	15			
		Fountain						
CU-08-FL	FL	Hallway Water	Yes	NA	15			
		Fountain						

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



TABLE 2									
SUMMARY OF LABORATORY ANALYSIS RESULTS – COPPER (Cu)									
Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)				
CU-01-FD	FD	Kitchen	Yes	<100	1300				
CU-01-FL	FL	Kitchen	Yes	NA	15				
CU-02-FD	FD	Room 105	Yes	<100	1300				
CU-02-FL	FL	Room 105	Yes	NA	15				
CU-03-FD	FD	Room 107	Yes	<100	1300				
CU-03-FL	FL	Room 107	Yes	NA	15				
CU-04-FD	FD	Room 108	Yes	<100	1300				
CU-04-FL	FL	Room 108	Yes	NA	15				
CU-05-FD	FD	Room 110	Yes	<100	1300				
CU-05-FL	FL	Room 110	Yes	NA	15				
CU-06-FD	FD	Room 109	Yes	<100	1300				
CU-06-FL	FL	Room 109	Yes	NA	15				
CU-07-FD	FD	Room 106	Yes	<100	1300				
CU-07-FL	FL	Room 106	Yes	NA	15				
CU-08-FD	FD	Hallway Water	Yes	<100	1300				
CU-00-FD		Fountain			1500				
CU-08-FL	FL	Hallway Water	Yes	NA	15				
		Fountain							

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

Laboratory analysis results of the lead and copper 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.

Christopher Glowacki, CIH, CIEC

hus Slauxets

Senior Project Manager

APPENDIX I

LABORATORY CERTIFICATES OF ANALYSIS



9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

6/11/2024

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date:

1805 Atlantic AvenueReport No.:700730 - Lead WaterManasquanNJ 08736Project:DCF Cumberland Campus

Client: VHB973 Project No.: 21689.18

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7760458 Location: Kitchen Result(ppb):<1.00

Client No.: CU-01-FD * Sample acidified to pH <2.

Client No.:CU-02-FD * Sample acidified to pH <2.

Lab No.:7760460 Location: 107 Result(ppb):<1.00

Client No.: CU-03-FD * Sample acidified to pH <2.

Lab No.: 7760461 **Location:** 108 **Result(ppb):** 2.80

Client No.: CU-04-FD * Sample acidified to pH <2.

Client No.:CU-05-FD * Sample acidified to pH <2.

Lab No.:7760463 **Location:**109 **Result(ppb):**1.00

Client No.:CU-06-FD * Sample acidified to pH <2.

Client No.: CU-07-FD * Sample acidified to pH <2.

Lab No.:7760465 Location: Hallway Fountain Result(ppb):<1.00

Client No.: CU-08-FD * Sample acidified to pH <2.

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

Date Received: 6/5/2024

Date Analyzed: 06/11/2024

Signature: Chad Bhoffen

Analyst: Chad Shaffer

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 6/11/2024 8:23:15 Page 1 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date: 6/11/2024

1805 Atlantic Avenue Report No.: 700730 - Lead Water

Manasquan NJ 08736 Project: DCF Cumberland Campus

Client: VHB973 Project No.: 21689.18

Appendix to Analytical Report:

Customer Contact: Chris Glowacki Analysis: AAS-GF - ASTM D3559-15D

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 OfficeManager: ?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 ir 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 D3559-15D

- 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 μ g/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

Dated: 6/11/2024 8:23:15 Page 2 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date: 6/11/2024

1805 Atlantic Avenue Report No.: 700730 - Lead Water

Manasquan NJ 08736 Project: DCF Cumberland Campus

Client: VHB973 Project No.: 21689.18

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.

Dated: 6/11/2024 8:23:15 Page 3 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date: 6/11/2024

1805 Atlantic AvenueReport No.:700730 - Copper WaterManasquanNJ 08736Project:DCF Cumberland Campus

Client: VHB973 Project No.: 21689.18

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7760458 Location: Kitchen Result(ppb):<100

Client No.: CU-01-FD * Sample acidified to pH <2.

Lab No.:7760459 Location:Staff 105 Result(ppb):<100

Client No.: CU-02-FD * Sample acidified to pH <2.

Lab No.:7760460 **Location**:107 **Result(ppb)**:<100

Client No.: CU-03-FD * Sample acidified to pH <2.

Lab No.:7760461 **Location:**108 **Result(ppb):**<100

Client No.: CU-04-FD * Sample acidified to pH <2.

Client No.: CU-05-FD * Sample acidified to pH <2.

Lab No.:7760463 **Location:**109 **Result(ppb):**<100

Client No.: CU-06-FD * Sample acidified to pH <2.

Client No.:CU-07-FD * Sample acidified to pH <2.

Lab No.:7760465 Location: Hallway Fountain Result(ppb):<100

Client No.:CU-08-FD * Sample acidified to pH <2.

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

Date Received: 6/5/2024

Date Analyzed: 06/11/2024

Date Analyzed: 06/11/2024
Signature: Date Analyzed: 06/11/2024

Analyst: Chad Shaffer

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 6/11/2024 8:23:16 Page 1 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date: 6/11/2024

1805 Atlantic AvenueReport No.:700730 - Copper WaterManasquanNJ 08736Project:DCF Cumberland Campus

Client: VHB973 Project No.: 21689.18

Appendix to Analytical Report:

Customer Contact: Chris Glowacki Analysis: AAS-FL- ASTM D1688-17(A)

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 OfficeManager: wchampion@iatl.com iATL Account Representative: Kelly Klippel Sample Login Notes: See Batch Sheet Attached

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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 D1688-17(A)

- Accreditations:
 NYS-DOH No. 11021
- NJDEP No. 03863

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

- USEPA 200.9 Cu, AAS-FL, RL <100 ppb/sample

Regulatory limit for copper in drinking water is 1300 parts per billion (or 1.3 ppm) 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 μ g/L = 1 ppb MDL = 20 PPB Reporting Limit (RL) < 100 PPB

Disclaimers / Qualifiers:

Dated: 6/11/2024 8:23:16 Page 2 of 3



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc. Report Date: 6/11/2024

1805 Atlantic AvenueReport No.:700730 - Copper WaterManasquanNJ 08736Project:DCF Cumberland Campus

Project No.: 21689.18

Client: VHB973

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

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