



November 10, 2022

Ref: 21689.01

Mr. Ronald Wybraniec
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 – Mercer Campus
1600 Stuyvesant Ave
Trenton, NJ 08618

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 Schools Mercer Campus located at 1600 Stuyvesant Avenue, Trenton, New Jersey (subject building). VHB performed the sampling on October 7, 2022. 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. The facility is part of the Project TEACH program, an alternative education program for pregnant or parenting teens. The testing was performed as a childcare licensing requirement.

METHODS

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

- Samples were collected in the morning 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

1805 Atlantic Avenue

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Manasquan, New Jersey 08736

P 732.223.2225



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.
- 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)					
Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)
ME-FD-01	FD	Kitchen	Yes	<1.00	15
ME-FL-01	FL	Kitchen	Yes	NA	15
ME-FD-02	FD	Kitchen Ice Machine	Yes	<1.00	15
ME-FL-02	FL	Kitchen Ice Machine	Yes	NA	15
ME-FD-03	FD	Kitchen Staff	Yes	<1.00	15
ME-FL-03	FL	Kitchen Staff	Yes	NA	15
ME-FD-04	FD	Room 103	Yes	<1.00	15
ME-FL-04	FL	Room 103	Yes	NA	15
ME-FD-05	FD	Room 104	Yes	<1.00	15
ME-FL-05	FL	Room 104	Yes	NA	15
ME-FD-06	FD	Room 102	Yes	<1.00	15
ME-FL-06	FL	Room 102	Yes	NA	15
ME-FD-07	FD	Room 101	Yes	<1.00	15
ME-FL-07	FL	Room 101	Yes	NA	15
ME-FD-08	FD	Room 105	Yes	<1.00	15
ME-FL-08	FL	Room 105	Yes	NA	15
ME-FD-09	FD	Room 106	Yes	<1.00	15
ME-FL-09	FL	Room 106	Yes	NA	15
ME-FD-10	FD	Room 107	Yes	<1.00	15
ME-FL-10	FL	Room 107	Yes	NA	15



TABLE 1					
SUMMARY OF LABORATORY ANALYSIS RESULTS – LEAD (Pb)					
Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)
ME-FD-11	FD	Room 109	Yes	<1.00	15
ME-FL-11	FL	Room 109	Yes	NA	15
ME-FD-12	FD	Room 110	Yes	<1.00	15
ME-FL-12	FL	Room 110	Yes	NA	15

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)
ME-FD-01	FD	Staff Kitchen	Yes	<100	1,300
ME-FL-01	FL	Staff Kitchen	Yes	NA	1,300
ME-FD-02	FD	Kitchen Ice Machine	Yes	<100	1,300
ME-FL-02	FL	Kitchen Ice Machine	Yes	NA	1,300
ME-FD-03	FD	Kitchen Staff	Yes	<100	1,300
ME-FL-03	FL	Kitchen Staff	Yes	NA	1,300
ME-FD-04	FD	Room 103	Yes	<100	1,300
ME-FL-04	FL	Room 103	Yes	NA	1,300
ME-FD-05	FD	Room 104	Yes	<100	1,300
ME-FL-05	FL	Room 104	Yes	NA	1,300
ME-FD-06	FD	Room 102	Yes	<100	1,300
ME-FL-06	FL	Room 102	Yes	NA	1,300
ME-FD-07	FD	Room 101	Yes	<100	1,300
ME-FL-07	FL	Room 101	Yes	NA	1,300
ME-FD-08	FD	Room 105	Yes	<100	1,300
ME-FL-08	FL	Room 105	Yes	NA	1,300
ME-FD-09	FD	Room 106	Yes	<100	1,300
ME-FL-09	FL	Room 106	Yes	NA	1,300
ME-FD-10	FD	Room 107	Yes	<100	1,300
ME-FL-10	FL	Room 107	Yes	NA	1,300
ME-FD-11	FD	Room 109	Yes	<100	1,300
ME-FL-11	FL	Room 109	Yes	NA	1,300
ME-FD-12	FD	Room 110	Yes	<100	1,300
ME-FL-12	FL	Room 110	Yes	NA	1,300

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 regulatory limits for lead and copper at each test location. Flush samples were not analyzed. 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 that reads "Chris Glowacki".

Christopher Glowacki, CIH, CIEC
Senior Project Manager

JR:CG

APPENDIX I

LABORATORY CERTIFICATES OF ANALYSIS

CERTIFICATE OF ANALYSIS

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

Report Date: 10/12/2022
Report No.: 670342 - Lead Water
Project: DCF Mercer Campus
Project No.:

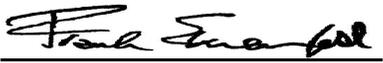
Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7505972 Client No.: ME-FD-01	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505973 Client No.: ME-FL-01	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505974 Client No.: ME-FD-02 Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505975 Client No.: ME-FL-02	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505976 Client No.: ME-FD-03	Location: Kitchen Staff * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505977 Client No.: ME-FL-03	Location: Kitchen Staff * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505978 Client No.: ME-FD-04	Location: Room 103 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505979 Client No.: ME-FL-04	Location: Room 103 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505980 Client No.: ME-FD-05	Location: Room 104 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505981 Client No.: ME-FL-05	Location: Room 104 * 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: 10/7/2022
Date Analyzed: 10/11/2022
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

Report Date: 10/12/2022
Report No.: 670342 - Lead Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7505982 Client No.: ME-FD-06	Location: Room 102 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505983 Client No.: ME-FL-06	Location: Room 102 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505984 Client No.: ME-FD-07	Location: Room 101 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505985 Client No.: ME-FL-07	Location: Room 101 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505986 Client No.: ME-FD-08	Location: Room 105 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505987 Client No.: ME-FL-08	Location: Room 105 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505988 Client No.: ME-FD-09	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505989 Client No.: ME-FL-09	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505990 Client No.: ME-FD-10	Location: Room 107 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505991 Client No.: ME-FL-10	Location: Room 107 * 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: 10/7/2022
Date Analyzed: 10/11/2022
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

Report Date: 10/12/2022
Report No.: 670342 - Lead Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7505992 Client No.: ME-FD-11	Location: Room 109 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505993 Client No.: ME-FL-11	Location: Room 109 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505994 Client No.: ME-FD-12	Location: Room 110 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7505995 Client No.: ME-FL-12	Location: Room 110 * 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: 10/7/2022
Date Analyzed: 10/11/2022
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

Report Date: 10/12/2022
Report No.: 670342 - Lead Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

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: 10/12/2022
Report No.: 670342 - Lead Water
Project: DCF Mercer Campus
Project No.:

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.

CERTIFICATE OF ANALYSIS

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

Report Date: 10/12/2022
Report No.: 670342 - Copper Water
Project: DCF Mercer Campus
Project No.:

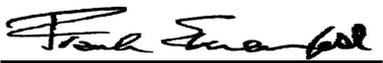
Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7505972 Client No.: ME-FD-01	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505973 Client No.: ME-FL-01	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505974 Client No.: ME-FD-02 Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505975 Client No.: ME-FL-02	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505976 Client No.: ME-FD-03	Location: Kitchen Staff * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505977 Client No.: ME-FL-03	Location: Kitchen Staff * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505978 Client No.: ME-FD-04	Location: Room 103 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505979 Client No.: ME-FL-04	Location: Room 103 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505980 Client No.: ME-FD-05	Location: Room 104 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505981 Client No.: ME-FL-05	Location: Room 104 * 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: 10/7/2022
Date Analyzed: 10/12/2022
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

Report Date: 10/12/2022
Report No.: 670342 - Copper Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7505982 Client No.: ME-FD-06	Location: Room 102 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505983 Client No.: ME-FL-06	Location: Room 102 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505984 Client No.: ME-FD-07	Location: Room 101 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505985 Client No.: ME-FL-07	Location: Room 101 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505986 Client No.: ME-FD-08	Location: Room 105 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505987 Client No.: ME-FL-08	Location: Room 105 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505988 Client No.: ME-FD-09	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505989 Client No.: ME-FL-09	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505990 Client No.: ME-FD-10	Location: Room 107 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505991 Client No.: ME-FL-10	Location: Room 107 * 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: 10/7/2022
Date Analyzed: 10/12/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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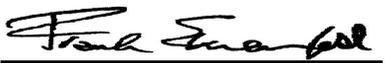
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COPPER WATER SAMPLE ANALYSIS SUMMARY

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Lab No.: 7505993 Client No.: ME-FL-11	Location: Room 109 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7505994 Client No.: ME-FD-12	Location: Room 110 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7505995 Client No.: ME-FL-12	Location: Room 110 * 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: 10/7/2022
Date Analyzed: 10/12/2022
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

Report Date: 10/12/2022
Report No.: 670342 - Copper Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

Appendix to Analytical Report:

Customer Contact: Chris Glowacki
Analysis: AAS-FL- ASTM D1688-12(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.

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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 D1688-12(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 <40 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 µg/L = 1 ppb MDL = 20 PPB Reporting Limit (RL) = 40 PPB

Disclaimers / Qualifiers:

Dated : 10/13/2022 9:10:12

Page 4 of 5

CERTIFICATE OF ANALYSIS

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

Report Date: 10/12/2022
Report No.: 670342 - Copper Water
Project: DCF Mercer Campus
Project No.:

Client: VHB973

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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 D1668-12(A) 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: <u>VHB</u>	Project Number: _____
Office Address: <u>1809 Atlantic Ave</u>	Project Name: <u>DCF DCF Mercedes Campus</u>
City, State, Zip: <u>Manassas, VA 20108</u>	Primary Contact: <u>Chris Glowacki</u>
Fax Number: _____	Office Phone: <u>703-223-2225</u>
Email Address: <u>jrusso@vhb.com, cglowacki@vhb.com</u>	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 VA Lead & Copper Drinking Water

Special Instructions:
FD = First Draw, FL = Flush. Flush Samples only analyzed if there is an exceedance of limits on First Draw Sample

Turnaround Time

Preliminary Results Requested Date: _____

Verbal Email Fax

Specific date / time

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

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

Chain of Custody

Relinquished (Name/Organization): <u>John Russo VHB</u>	Date: <u>10/7/22</u>	Time: _____	RECEIVED
Received (Name / iATL): _____	Date: _____	Time: _____	4
Sample Login (Name / iATL): _____	Date: _____	Time: _____	OCT - 7 2022
Analysis(Name(s) / iATL): <u>10/13/22</u>	Date: _____	Time: _____	/
QA/QC Review (Name / iATL): <u>10/14/22</u>	Date: _____	Time: _____	/
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

Sample Log

—Environmental Lead—

Client: OR Project: DCF Mercer

Sampling Date/Time: 10/7/22

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
ME-FD-01	7505972	Kitchen		10/7/22	6:42	250mL	
ME-FL-01	7505973	↓			↓		
ME-FD-02	7505974	Kitchen Ice			6:56		
ME-FL-02	7505975	↓			↓		
ME-FD-03	7505976	Kitchen Staff			6:57		
ME-FL-03	7505977	↓			↓		
ME-FD-04	7505978	Room 103			7:01		
ME-FL-04	7505979	↓			↓		
ME-FD-05	7505980	Room 104			7:06		
ME-FL-05	7505981	↓			↓		
ME-FD-06	7505982	Room 102			7:13		
ME-FL-06	7505983	↓			↓		
ME-FD-07	7505984	Room 101			7:15		
ME-FL-07	7505985	↓			↓		
ME-FD-08	7505986	Room 105			7:18		

* = 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: _____ Project: DLF Mercer

Sampling Date/Time: 10/7/22

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
ME-EL-08	7505987	Room 105		10/7/22	7:18	250 mL	
ME-FL-08	7505988	Room 106			7:21		
ME-FL-09	7505989	Room 106			↓		
ME-FD-10	7505990	Room 107			7:24		
ME-FL-10	7505991	Room 107			↓		
ME-FD-11	7505992	Room 107			7:26		
ME-FL-11	7505993	Room 107			↓		
ME-FD-12	7505994	Room 110			7:28		
ME-FL-12	7505995	Room 110			↓		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Acidified w/ 10/7/22 2:10</p> </div>							

* = 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.

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