



September 18, 2023

Ref: 21689.14

Mr. Joseph Lenahan  
New Jersey Department of Children and Families  
50 East State Street  
Trenton, New Jersey 08608

Re: Lead and Copper in Drinking Water Testing Report  
DCF Regional School – Cherry Hill Campus  
30 Evesham Road West  
Cherry Hill, NJ 08003

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 Schools Cherry Hill Campus located at 30 Evesham Road West, Cherry Hill, New Jersey (subject building). VHB performed the sampling on August 25, 2023. 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. The testing was performed as a childcare licensing requirement.

## Methodology

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 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)
CH-01-FD	FD	Kitchen	Yes	1.00	15
CH-02-FL	FL	Kitchen	Yes	NA	15
CH-03-FD	FD	Kitchen Ice	Yes	4.8	15
CH-04-FL	FL	Kitchen ice	Yes	NA	15
CH-05-FD	FD	Staff Kitchen	Yes	<1.00	15
CH-06-FL	FL	Staff Kitchen	Yes	NA	15
CH-07-FD	FD	Room 116	Yes	<1.00	15
CH-08-FL	FL	Room 116	Yes	NA	15
CH-09-FD	FD	Room 113	Yes	<1.00	15
CH-10-FL	FL	Room 113	Yes	NA	15
CH-11-FD	FD	Room 115	Yes	<1.00	15
CH-12-FL	FL	Room 115	Yes	NA	15
CH-13-FD	FD	Room 114	Yes	<1.00	15
CH-14-FL	FL	Room 114	Yes	NA	15
CH-15-FD	FD	Room 111	Yes	<1.00	15
CH-16-FL	FL	Room 111	Yes	NA	15
CH-17-FD	FD	Room 106	Yes	<1.00	15
CH-18-FL	FL	Room 106	Yes	NA	15
CH-19-FD	FD	Room 110	Yes	1.70	15
CH-20-FL	FL	Room 110	Yes	NA	15
CH-21-FD	FD	Room 107	Yes	<1.00	15
CH-22-FL	FL	Room 107	Yes	NA	15



CH-23-FD	FD	Room 109	Yes	<1.00	15
CH-24-FL	FL	Room 109	Yes	NA	15
CH-25-FD	FD	Room 108	Yes	<1.00	15
CH-26-FL	FL	Room 108	Yes	NA	15
CH-27-FD	FD	Room 123	Yes	<1.00	15
CH-28-FL	FL	Room 123	Yes	NA	15
CH-29-FD	FD	Room 121	Yes	<1.00	15
CH-30-FL	FL	Room 121	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)
CH-01-FD	FD	Kitchen	Yes	154	1300
CH-02-FL	FL	Kitchen	Yes	NA	1300
CH-03-FD	FD	Kitchen Ice	Yes	180	1300
CH-04-FL	FL	Kitchen ice	Yes	NA	1300
CH-05-FD	FD	Staff Kitchen	Yes	186	1300
CH-06-FL	FL	Staff Kitchen	Yes	NA	1300
CH-07-FD	FD	Room 116	Yes	<100	1300
CH-08-FL	FL	Room 116	Yes	NA	1300
CH-09-FD	FD	Room 113	Yes	<100	1300
CH-10-FL	FL	Room 113	Yes	NA	1300
CH-11-FD	FD	Room 115	Yes	<100	1300
CH-12-FL	FL	Room 115	Yes	NA	1300
CH-13-FD	FD	Room 114	Yes	<100	1300
CH-14-FL	FL	Room 114	Yes	NA	1300
CH-15-FD	FD	Room 111	Yes	<100	1300
CH-16-FL	FL	Room 111	Yes	NA	1300
CH-17-FD	FD	Room 106	Yes	<100	1300
CH-18-FL	FL	Room 106	Yes	NA	1300
CH-19-FD	FD	Room 110	Yes	<100	1300
CH-20-FL	FL	Room 110	Yes	NA	1300
CH-21-FD	FD	Room 107	Yes	<100	1300
CH-22-FL	FL	Room 107	Yes	NA	1300



CH-23-FD	FD	Room 109	Yes	<100	1300
CH-24-FL	FL	Room 109	Yes	NA	1300
CH-25-FD	FD	Room 108	Yes	<100	1300
CH-26-FL	FL	Room 108	Yes	NA	1300
CH-27-FD	FD	Room 123	Yes	<100	1300
CH-28-FL	FL	Room 123	Yes	NA	1300
CH-29-FD	FD	Room 121	Yes	<100	1300
CH-30-FL	FL	Room 121	Yes	NA	1300

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 attached to this report.

## 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 feel free to contact our office at 732-223-2225 with any questions or comments regarding the sampling event.

Sincerely,

VHB

A handwritten signature in blue ink that reads "John Russo".

John Russo  
EPA Lead Inspector/Risk Assessor

A handwritten signature in blue ink that reads "Chris Glowacki".

Christopher Glowacki, CIH, CIEC  
Senior Project Manager

Attachments (1) Certificates of Laboratory Analysis

CERTIFICATE OF ANALYSIS

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


Report Date: 8/31/2023  
Report No.: 688715 - Lead Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12


Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663480 Client No.: CH-01-FD	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): 1.00
Lab No.: 7663481 Client No.: CH-02-FL	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663482 Client No.: CH-03-FD	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): 4.80
Lab No.: 7663483 Client No.: CH-04-FL	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663484 Client No.: CH-05-FD	Location: Staff Kitchen * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663485 Client No.: CH-06-FL	Location: Staff Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663486 Client No.: CH-07-FD	Location: 116 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663487 Client No.: CH-08-FL	Location: 116 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663488 Client No.: CH-09-FD	Location: 113 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663489 Client No.: CH-10-FL	Location: 113 * 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: 8/25/2023  
Date Analyzed: 08/30/2023  
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: 8/31/2023  
Report No.: 688715 - Lead Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12


Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663490 Client No.: CH-11-FD	Location: 115 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663491 Client No.: CH-12-FL	Location: 115 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663492 Client No.: CH-13-FD	Location: 114 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663493 Client No.: CH-14-FL	Location: 114 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663494 Client No.: CH-15-FD	Location: 111 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663495 Client No.: CH-16-FL	Location: 111 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663496 Client No.: CH-17-FD	Location: 106 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663497 Client No.: CH-18-FL	Location: 106 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663498 Client No.: CH-19-FD	Location: 110 * Sample acidified to pH <2.	Result(ppb): 1.70
Lab No.: 7663499 Client No.: CH-20-FL	Location: 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: 8/25/2023  
Date Analyzed: 08/30/2023  
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: 8/31/2023  
Report No.: 688715 - Lead Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12

Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663500 Client No.: CH-21-FD	Location: 107 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663501 Client No.: CH-22-FL	Location: 107 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663502 Client No.: CH-23-FD	Location: 109 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663503 Client No.: CH-24-FL	Location: 109 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663504 Client No.: CH-25-FD	Location: 108 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663505 Client No.: CH-26-FL	Location: 108 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663506 Client No.: CH-27-FD	Location: 123 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663507 Client No.: CH-28-FL	Location: 123 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663508 Client No.: CH-29-FD	Location: 121 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663509 Client No.: CH-30-FL	Location: 121 * 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: 8/25/2023  
Date Analyzed: 08/30/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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

Report Date: 8/31/2023  
Report No.: 688715 - Lead Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12

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](http://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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CERTIFICATE OF ANALYSIS

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

Report Date: 8/31/2023  
Report No.: 688715 - Lead Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12

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](mailto: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: 8/31/2023  
Report No.: 688715 - Copper Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12


Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663480 Client No.: CH-01-FD	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): 154
Lab No.: 7663481 Client No.: CH-02-FL	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663482 Client No.: CH-03-FD	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): 180
Lab No.: 7663483 Client No.: CH-04-FL	Location: Kitchen Ice * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663484 Client No.: CH-05-FD	Location: Staff Kitchen * Sample acidified to pH <2.	Result(ppb): 186
Lab No.: 7663485 Client No.: CH-06-FL	Location: Staff Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663486 Client No.: CH-07-FD	Location: 116 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663487 Client No.: CH-08-FL	Location: 116 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663488 Client No.: CH-09-FD	Location: 113 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663489 Client No.: CH-10-FL	Location: 113 * 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: 8/25/2023  
Date Analyzed: 08/31/2023  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

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


Report Date: 8/31/2023  
Report No.: 688715 - Copper Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12


Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663490 Client No.: CH-11-FD	Location: 115 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663491 Client No.: CH-12-FL	Location: 115 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663492 Client No.: CH-13-FD	Location: 114 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663493 Client No.: CH-14-FL	Location: 114 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663494 Client No.: CH-15-FD	Location: 111 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663495 Client No.: CH-16-FL	Location: 111 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663496 Client No.: CH-17-FD	Location: 106 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663497 Client No.: CH-18-FL	Location: 106 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663498 Client No.: CH-19-FD	Location: 110 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663499 Client No.: CH-20-FL	Location: 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: 8/25/2023  
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Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

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

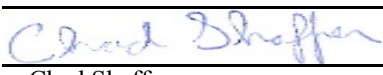
Report Date: 8/31/2023  
Report No.: 688715 - Copper Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12


Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663500 Client No.: CH-21-FD	Location: 107 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663501 Client No.: CH-22-FL	Location: 107 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663502 Client No.: CH-23-FD	Location: 109 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663503 Client No.: CH-24-FL	Location: 109 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663504 Client No.: CH-25-FD	Location: 108 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663505 Client No.: CH-26-FL	Location: 108 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663506 Client No.: CH-27-FD	Location: 123 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663507 Client No.: CH-28-FL	Location: 123 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663508 Client No.: CH-29-FD	Location: 121 * Sample acidified to pH <2.	Result(ppb): <100
Lab No.: 7663509 Client No.: CH-30-FL	Location: 121 * 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: 8/25/2023  
Date Analyzed: 08/31/2023  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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

Report Date: 8/31/2023  
Report No.: 688715 - Copper Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12

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.

**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](http://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, impartiality, sample archival and disposal, and data interpretation. See also [www.iatl.com/resources/FAQ](http://www.iatl.com/resources/FAQ)

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, NELAC (TNI), 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 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:

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CERTIFICATE OF ANALYSIS

---

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

Report Date: 8/31/2023  
Report No.: 688715 - Copper Water  
Project: DCF - Cherry Hill  
Project No.: 21689.12

Client: VHB973

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](mailto: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 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 –

<b>Contact Information</b>	
Client Company: <u>VHB</u>	Project Number: <u>21689.12</u>
Office Address: <u>1805 Atlantic Ave</u>	Project Name: <u>DCF - Cherry Hill</u>
City, State, Zip: <u>Monroeville, NJ 08736</u>	Primary Contact: <u>Tom Haller</u>
Fax Number: _____	Office Phone: <u>201 575 5017</u>
Email Address: <u>THALLER@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 NJ Lead + Copper

**Special Instructions:**  
FD = First Draw, FL = Flush, ~~start~~ only analyze FL if  
exceedance in FL

**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\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>JW</u>	Date: <u>8/25/12</u>	Time: <u>RECEIVED</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis (Name(s) / iATL): <u>US 1311/27</u>	Date: _____	Time: _____
QA/QC Review (Name / iATL): <u>L 43423</u>	Date: _____	Time: <u>AUG 25 2012</u>
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

# Sample Log

—Environmental Lead—

Client: NJ DCF Project: 21689.12 Cherry Hill

Sampling Date/Time: 8/25/23 626-730

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
CH-01-FD	7663480	Kitchen		8/25/23	626	250 mL	
CH-02-FL	7663481	kitchen			628		
CH-03-FD	7663482	kitchen Ice			630		
CH-04-FL	7663483	kitchen Ice			632		
CH-05-FD	7663484	Staff Kitchen			634		
CH-06-FL	7663485	Staff Kitchen			636		
CH-07-FD	7663486	116			637		
CH-08-FL	7663487	116			639		
CH-09-FD	7663488	113			640		
CH-10-FL	7663489	113			642		
CH-11-FD	7663490	115			643		
CH-12-FL	7663491	115			645		
CH-13-FD	7663492	⑩ 113 114			646		
CH-14-FL	7663493	⑩ 113 114			648		
CH-15-FD	7663494	111			650		

\* = 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: NJ DCF Project: 21689.12 Cherry H. 11

Sampling Date/Time: 8/25/23 626-730

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
CH-16-FL	7663495	111		8/25/23	653	2509L	
CH-17-FD	7663496	106			655		
CH-18-FL	7663497	106			657		
CH-19-FD	7663498	110			658		
CH-20-FL	7663499	110			700		
CH-21-FD	7663500	107			705		
CH-22-FL	7663501	107			708		
CH-23-FD	7663502	109			713		
CH-24-FL	7663503	109			715		
CH-25-FD	7663504	108			720		
CH-26-FL	7663505	108			723		
CH-27-FD	7663506	123			725		
CH-28-FL	7663507	123			726		
CH-29-FD	7663508	121			728		
CH-30-FL	7663509	121			730		

\* = 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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Acidified w/ 8/29/23 22230