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 – Cherry Hill Campus
30 West Evesham Road
Cherry Hill, NJ 08003
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 Cherry Hill Campus located at 30 West Evesham Road, Cherry Hill, New Jersey (subject building). VHB performed the sampling on March 5, 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
Manasquan, New Jersey 08736
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)
CA-01-FD	FD	Kitchen	Yes	<1.00	15
CA-02-FL	FL	Kitchen	Yes	NA	15
CA-03-FD	FD	Kitchen Ice Machine	Yes	<1.00	15
CA-04-FL	FL	Kitchen Ice Machine	Yes	NA	15
CA-05-FD	FD	Staff Kitchen	Yes	<1.00	15
CA-06-FL	FL	Staff Kitchen	Yes	NA	15
CA-07-FD	FD	Room 108	Yes	<1.00	15
CA-08-FL	FL	Room 108	Yes	NA	15
CA-09-FD	FD	Room 107	Yes	2.40	15
CA-10-FL	FL	Room 107	Yes	NA	15
CA-11-FD	FD	Room 113	Yes	<1.00	15
CA-12-FL	FL	Room 113	Yes	NA	15
CA-13-FD	FD	Room 114	Yes	<1.00	15
CA-14-FL	FL	Room 114	Yes	NA	15
CA-15-FD	FD	Room 117	Yes	<1.00	15
CA-16-FL	FL	Room 117	Yes	NA	15
CA-17-FD	FD	Room 118	Yes	<1.00	15
CA-18-FL	FL	Room 118	Yes	NA	15
CA-19-FD	FD	Room 119	Yes	1.20	15
CA-20-FL	FL	Room 119	Yes	NA	15
CA-21-FD	FD	Room 120	Yes	1.30	15
CA-22-FL	FL	Room 120	Yes	NA	15

CA-23-FD	FD	Room 121	Yes	<1.00	15
CA-24-FL	FL	Room 121	Yes	NA	15
CA-25-FD	FD	Room 122	Yes	<1.00	15
CA-26-FL	FL	Room 122	Yes	NA	15
CA-27-FD	FD	Room 123	Yes	<1.00	15
CA-28-FL	FL	Room 123	Yes	NA	15
CA-29-FD	FD	Room 127	Yes	<1.00	15
CA-30-FL	FL	Room 127	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.

Christopher Glowacki, CIH, CIEC
Senior Project Manager

TH:CG

APPENDIX I

LABORATORY CERTIFICATES OF ANALYSIS

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

CERTIFICATE OF ANALYSIS

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

Client: VHB973

Report Date: 3/10/2022
Report No.: 655100 - Lead Water
Project: Camden
Project No.: 21336.22

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7380343 **Location:**Kitchen **Result(ppb):**<1.00
Client No.:CA-01-FD * Sample acidified to pH <2.
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.:7380344 **Location:**Kitchen **Result(ppb):**Sample Not Analyzed
Client No.:CA-02-FL * Sample acidified to pH <2.

Lab No.:7380345 **Location:**Kitchen Ice **Result(ppb):**<1.00
Client No.:CA-03-FD * Sample acidified to pH <2.

Lab No.:7380346 **Location:**Kitchen Ice **Result(ppb):**Sample Not Analyzed
Client No.:CA-04-FL * Sample acidified to pH <2.

Lab No.:7380347 **Location:**Staff Kitchen **Result(ppb):**<1.00
Client No.:CA-05-FD * Sample acidified to pH <2.

Lab No.:7380348 **Location:**Staff Kitchen **Result(ppb):**Sample Not Analyzed
Client No.:CA-06-FL * Sample acidified to pH <2.

Lab No.:7380349 **Location:**108 **Result(ppb):**<1.00
Client No.:CA-07-FD * Sample acidified to pH <2.

Lab No.:7380350 **Location:**108 **Result(ppb):**Sample Not Analyzed
Client No.:CA-08-FL * Sample acidified to pH <2.

Lab No.:7380351 **Location:**107 **Result(ppb):**2.40
Client No.:CA-09-FD * Sample acidified to pH <2.

Lab No.:7380352 **Location:**107 **Result(ppb):**Sample Not Analyzed
Client No.:CA-10-FL * Sample acidified to pH <2.

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

Date Received: 3/7/2022
Date Analyzed: 03/10/2022
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

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

Client: VHB973

Report Date: 3/10/2022
Report No.: 655100 - Lead Water
Project: Camden
Project No.: 21336.22

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7380353 **Client No.:**CA-11-FD	**Location:**113 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7380354 **Client No.:**CA-12-FL	**Location:**113 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7380355 **Client No.:**CA-13-FD	**Location:**114 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7380356 **Client No.:**CA-14-FL	**Location:**114 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7380357 **Client No.:**CA-15-FD	**Location:**117 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7380358 **Client No.:**CA-16-FL	**Location:**117 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7380359 **Client No.:**CA-17-FD	**Location:**118 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7380360 **Client No.:**CA-18-FL	**Location:**118 * Sample acidified to pH <2.	**Result(ppb):**Sample Not Analyzed
Lab No.:7380361 **Client No.:**CA-19-FD	**Location:**119 * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7380362 **Client No.:**CA-20-FL	**Location:**119 * 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: 3/7/2022
Date Analyzed: 03/10/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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

Client: VHB973

Report Date: 3/10/2022
Report No.: 655100 - Lead Water
Project: Camden
Project No.: 21336.22

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7380363 **Location:**120 **Result(ppb):**1.30
Client No.:CA-21-FD * Sample acidified to pH <2.

Lab No.:7380364 **Location:**120 **Result(ppb):**Sample Not Analyzed
Client No.:CA-22-FL * Sample acidified to pH <2.

Lab No.:7380365 **Location:**121 **Result(ppb):**<1.00
Client No.:CA-23-FD * Sample acidified to pH <2.

Lab No.:7380366 **Location:**121 **Result(ppb):**Sample Not Analyzed
Client No.:CA-24-FL * Sample acidified to pH <2.

Lab No.:7380367 **Location:**122 **Result(ppb):**<1.00
Client No.:CA-25-FD * Sample acidified to pH <2.
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.:7380368 **Location:**122 **Result(ppb):**Sample Not Analyzed
Client No.:CA-26-FL * Sample acidified to pH <2.

Lab No.:7380369 **Location:**123 **Result(ppb):**<1.00
Client No.:CA-27-FD * Sample acidified to pH <2.

Lab No.:7380370 **Location:**123 **Result(ppb):**Sample Not Analyzed
Client No.:CA-28-FL * Sample acidified to pH <2.

Lab No.:7380371 **Location:**127 **Result(ppb):**<1.00
Client No.:CA-29-FD * Sample acidified to pH <2.

Lab No.:7380372 **Location:**127 **Result(ppb):**Sample Not Analyzed
Client No.:CA-30-FL * Sample acidified to pH <2.

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

Date Received: 3/7/2022
Date Analyzed: 03/10/2022
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

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

Client: VHB973

Report Date: 3/10/2022
Report No.: 655100 - Lead Water
Project: Camden
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 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 D3559-08D

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

Client:	Vanasse Hangen Brustlin, Inc.	Report Date:	3/10/2022
	1805 Atlantic Avenue	Report No.:	655100 - Lead Water
	Manasquan NJ 08736	Project:	Camden
		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.

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ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company:	VHB	**Project Number:**	21336.22
Office Address:	1805 Atlantic Avenue	**Project Name:**	Camden
City, State, Zip:	Manasquan, NJ 08742	**Primary Contact:**	Chris Glowacki
Fax Number:		**Office Phone:**	7322232225
Email Address:	Thalter@vhb.com, CGlowacki@vhb.com	**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) ☐ Verbal ■ Email ☐ Fax

☐ 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

RECEIVED

Relinquished (Name/Organization):	VHB	Date:	3/5/22	Time:	12
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:		Time:	MAR - 7
Analysis(Name(s) / iATL):	MS	Date:	~~3/11/22~~ 3/11	Time:	
QA/QC Review (Name / iATL):	3/11/22	Date:		Time:	
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:		Time:	

iATL - BY

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Environmental Lead –

Client: 21336.22 Project: Camden County

Sampling Date/Time: 3/5/12 1015-1100

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
CA-01-FD	T380343	Kitchen		3/5/12	1015	250mL	
CA-02-FL	T380344	Kitchen			1017		
CA-03-FD	T380345	Kitchen Ice			1020		
CA-04-FL	T380346	Kitchen Ice			1025		
CA-05-FD	T380347	Staff Kitchen			1026		
CA-06-FL	T380348	Staff Kitchen			1027		
CA-07-FD	T380349	108			1030		
CA-08-FL	T380350	108			1031		
CA-09-FD	T380351	107			1033		
CA-10-FL	T380352	107			1035		
CA-11-FD	T380353	(TA) 110/113			1036		
CA-12-FL	T380354	113			1037		
CA-13-FD	T380355	114			1038		
CA-14-FL	T380356	114			1038		
CA-15-FD	T380357	117			1040		

* = *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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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Environmental Lead –

Client: 21336.22 Project: Camden County

Sampling Date/Time: 3/5/22 1015-1100

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
CA-16-FL	T380358	117		3/5/22	1041	25mL	
CA-17-FD	T380359	118			1042		
CA-18-FL	T380360	FD ~~119~~ 118			1043		
CA-19-FD	T380361	119			1045		
CA-20-FL	T380362	119			1046		
CA-21-FD	T380363	120			1048		
CA-22-FL	T380364	120			1050		
CA-23-FD	T380365	121			1052		
CA-24-FL	T380366	121			1053		
CA-25-FD	T380367	122			1055		
CA-26-FL	T380368	122			1056		
CA-27-FD	T380369	123			1058		
CA-28-FL	T380370	123			1102		
CA-29-FD	T380371	127			1103		
CA-30-FL	T380372	127			1105		

* = *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.

AC Uplifting 3/7/22 19:30

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.