

APPENDIX I

LABORATORY ANALYTICAL DATA



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

CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 6/17/2016
Report No.: 511429 - Lead Water
Project: Atlantic Campus
Project No.: 14BR1411

Client: BRI493

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:5949181 Location:Kitchen Slop Sink FD, 6-4-16 Result(ppb):2.2
Client No.:AT-09A

Lab No.:5949182 Location:Kitchen Slop Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-09B

Lab No.:5949183 Location:Faculty Bathroom Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-10A

Lab No.:5949184 Location:Faculty Bathroom Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-10B

Lab No.:5949185 Location:Lobby Bathroom Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-11A

Lab No.:5949186 Location:Lobby Bathroom Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-11B

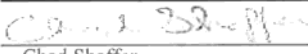
Lab No.:5949187 Location:Infant Nursery Bathroom Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-12A

Lab No.:5949188 Location:Infant Nursery Bathroom Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-12B

Lab No.:5949189 Location:Toddler Nursery Bathroom Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-13A

Lab No.:5949190 Location:Toddler Nursery Bathroom Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-13B

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

Date Received: 6/7/2016
Date Analyzed: 6/17/2016 12:00:00 AM
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:5949191 Location:Janitor's Closet Sink FD, 6-4-16 Result(ppb):5.2
Client No.:AT-14A

Lab No.:5949192 Location:Janitor's Closet Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-14B

Lab No.:5949193 Location:Room 101 Bathroom 1 Sink FD, 6-4-16 Result(ppb):30
Client No.:AT-15A

Lab No.:5949194 Location:Room 101 Bathroom 1 Sink FL, 6-4-16 Result(ppb):4.5
Client No.:AT-15B

Lab No.:5949195 Location:Room 101 Bathroom 2 Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-16A

Lab No.:5949196 Location:Room 101 Bathroom 2 Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-16B

Lab No.:5949197 Location:Room 102 Bathroom 1 Sink FD, 6-4-16 Result(ppb):<2.0
Client No.:AT-17A

Lab No.:5949198 Location:Room 102 Bathroom 1 Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-17B

Lab No.:5949199 Location:Room 102 Bathroom 2 Sink FD, 6-4-16 Result(ppb):2.5
Client No.:AT-18A

Lab No.:5949200 Location:Room 102 Bathroom 2 Sink FL, 6-4-16 Result(ppb):<2.0
Client No.:AT-18B

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

Date Received: 6/7/2016
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Signature:
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Report Date: 6/17/2016
Report No.: 511429 - Lead Water
Project: Atlantic Campus
Project No.: 14BR1411

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5949201 Client No.: AT-19A	Location: Room 103-Men's Bathroom Sink FD, 6-4-16	Result(ppb): <2.0
Lab No.: 5949202 Client No.: AT-19B	Location: Room 103-Men's Bathroom Sink FL, 6- 4-16	Result(ppb): <2.0
Lab No.: 5949203 Client No.: AT-20A	Location: Room 103-Women's Bathroom Sink FD, 6-4-16	Result(ppb): 2.1
Lab No.: 5949204 Client No.: AT-20B	Location: Room 103-Women's Bathroom Sink FL, 6-4-16	Result(ppb): <2.0
Lab No.: 5949205 Client No.: AT-21A	Location: Room 104-Bathroom 1 Sink FD, 6-4- 16	Result(ppb): 39
Lab No.: 5949206 Client No.: AT-21B	Location: Room 104-Bathroom 1 Sink FL, 6-4- 16	Result(ppb): <2.0
Lab No.: 5949207 Client No.: AT-22A	Location: Room 104-Bathroom 2 Sink FD, 6-4- 16	Result(ppb): 16
Lab No.: 5949208 Client No.: AT-22B	Location: Room 104-Bathroom 2 Sink FL, 6-4- 16	Result(ppb): <2.0
Lab No.: 5949209 Client No.: AT-23A	Location: Room 105-Men's Bathroom Sink FD, 6-4-16	Result(ppb): 5.7
Lab No.: 5949210 Client No.: AT-23B	Location: Room 105-Men's Bathroom Sink FL, 6- 4-16	Result(ppb): <2.0

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

Date Received: 6/7/2016
Date Analyzed: 6/17/2016 12:00:00 AM
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
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Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736
Client: BRI493
Report Date: 6/17/2016
Report No.: 511429 - Lead Water
Project: Atlantic Campus
Project No.: 14BR141I


LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5949211 Location: Room 105-Women's Bathroom Sink Result(ppb): 3.1
Client No.: AT-24A FD, 6-4-16

Lab No.: 5949212 Location: Room 105-Women's Bathroom Sink Result(ppb): <2.0
Client No.: AT-24B FL, 6-4-16

Lab No.: 5949213 Location: Field Blank, 6-4-16 Result(ppb): <2.0
Client No.: AT-25

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

Date Received: 6/7/2016
Date Analyzed: 6/17/2016 12:00:00 AM
Signature: 
Analyst: Chad Shaffer

Approved By: 
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CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc. 1805 Atlantic Avenue Manasquan NJ 08736	Report Date: 6/17/2016 Report No.: 511429 - Lead Water Project: Atlantic Campus Project No.: 14BR1411
Client: BRI493	

Appendix to Analytical Report:

Customer: Brinkerhoff Environmental Services Inc.
Address: 1805 Atlantic Avenue
Customer Contact: Jason Hooper
Analysis: AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

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: cdavis@iatl.com
iATL Account Representative: Pete Lesniak
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, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B:7421 - Pb(AAS-GF, RL <2 ppb/sample)

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

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) = 2.0 PPB

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.

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



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

Chain of Custody

Contact Information <i>Brinkerhoff</i>	
Client Company: <u>Environmental Services</u>	Project Number: <u>14BR141.I</u>
Office Address: <u>1805 Atlantic Avenue</u>	Project Name: <u>Atlantic Campus</u>
City, State, Zip: <u>Manasquan, NJ 08736</u>	Primary Contact: <u>Gary Fleming</u>
Fax Number: <u>732-223-3666</u>	Office Phone: <u>732-223-2225</u>
Email Address: <u>Hazmat Group</u>	Cell Phone: _____

Matrix:	
Air <input type="checkbox"/>	Soil <input type="checkbox"/>
Water <input checked="" type="checkbox"/>	Paint <input type="checkbox"/>
	Surface Dust / Wipe <input type="checkbox"/>
	Bulk <input type="checkbox"/>
	Other <input type="checkbox"/> <u>6/17/16 AD</u>
Analysis Method:	
<input type="checkbox"/> PCM: NIOSH 7400	<input type="checkbox"/> PLM: Bulk Asbestos EPA 600
<input type="checkbox"/> PCM: OSHA	<input type="checkbox"/> PLM: Point Counting 198.1
<input type="checkbox"/> PCM: TWA	<input type="checkbox"/> PLM: NOB via 198.6 (PLM only)
<input type="checkbox"/> Total Dust: NIOSH 0500	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4
<input type="checkbox"/> Total Dust: NIOSH 0600	
<input type="checkbox"/> AAS: Lead in Air	<input type="checkbox"/> TEM: AHERA
<input checked="" type="checkbox"/> AAS: Lead in Water	<input type="checkbox"/> TEM: NIOSH 7402
<input type="checkbox"/> AAS: Lead in Paint	<input type="checkbox"/> TEM: ISO 10312
<input type="checkbox"/> AAS: Lead Dust/Wipe ₁	<input type="checkbox"/> TEM: ISO 13794
<input type="checkbox"/> AAS: Lead in Soil	<input type="checkbox"/> TEM: Wipe ASTM 6480
<input type="checkbox"/> AAS: TCLP	<input type="checkbox"/> TEM: Microvac ASTM D5755
<input type="checkbox"/> AAS: Metals [Cd, Zn, Cr-circle]	<input type="checkbox"/> TEM: Microvac ASTM D5756
	<input type="checkbox"/> TEM: NOB 198.4
	<input type="checkbox"/> TEM: Bulk Analysis
	<input type="checkbox"/> TEM: Potable Water
	<input type="checkbox"/> TEM: Non-Potable Water
	<input type="checkbox"/> TEM: Other _____
	<input type="checkbox"/> Soil: Call for Available Methods
<i>PLM Use Bulk Asbestos Sample Log</i> <i>IAQ Use Mold Sample Log</i>	
<small>1- Requires ASTM acceptable material 2- Call to confirm TAT 3- Non-culturable 4- With Non-fungal Microscopic Exam</small>	
Special Instructions:	

Turnaround Time	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
Specific date / time	
<input type="checkbox"/> 10 Day <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

Shipping Method	
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> UPS
<input type="checkbox"/> USPS	<input type="checkbox"/> Other _____

Chain of Custody	
Relinquished (Name/Organization): <u>Matthew Mantley</u>	Date: <u>6/16/16</u>
Received (Name / iATL): _____	Date: _____
Sample Login (Name / iATL): _____	Date: <u>6/18/16</u>
Analyst (Name(s) / iATL): _____	Date: _____
QA/QC Review (Name / iATL): _____	Date: <u>6/17/16</u>
Archived / Released: _____	Date: _____
QA/QC InterLAB Use: _____	Date: _____
	Time: <u>UPS - Ground</u>
	Time: _____
	Time: <u>JUN - 7 2016</u>
	Time: _____

Sample Log

-Environmental Lead -

Brinkerhoff

Client: Environmental Services Project: 14BR141J

Sampling Date/Time: 6/4/16

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
AT-09A	5949181	Kitchen Sbp Sink FD			8:00am		
AT-09B	5949182	Kitchen Sbp Sink FL			8:01am		
AT-10A	5949183	Faculty Bathroom Sink FD			8:06am		
AT-10B	5949184	Faculty Bathroom Sink FL			8:07am		
AT-11A	5949185	Lobby Bathroom Sink FD			8:11am		
AT-11B	5949186	Lobby Bathroom Sink FL			8:11am		
AT-12A	5949187	Infant Nursery Bathroom Sink FD			8:24am		
AT-12B	5949188	Infant Nursery Bathroom Sink FL			8:24am		
AT-13A	5949189	Toddler Nursery Bathroom Sink FD			8:29am		
AT-13B	5949190	Toddler Nursery Bathroom Sink FL			8:29am		
AT-14A	5949191	Janitor's Closet Sink FD			8:44am		
AT-14B	5949192	Janitor's Closet Sink FL			8:44am		
AT-15A	5949193	Room 101 Bathroom 1 Sink FD			8:49am		
AT-15B	5949194	Room 101 Bathroom 1 Sink FL			8:49am		
AT-16A	5949195	Room 101 Bathroom 2 Sink FD			9:00am		

* = 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: Brinkerhoff Environmental Services Project: 14BR141J

Sampling Date/Time: 6/4/16

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
AT-16B	5949196	Room 101 Bathroom 2 Sink FL			9:00am		
AT-17A	5949197	Room 102 Bathroom 1 Sink FD			9:04am		
AT-17B	5949198	Room 102 Bathroom 1 Sink FL			9:04am		
AT-18A	5949199	Room 102 Bathroom 2 Sink FD			9:08am		
AT-18B	5949200	Room 102 Bathroom 2 Sink FL			9:08am		
AT-19A	5949201	Room 103-Men's Bathroom Sink FD			9:15am		
AT-19B	5949202	Room 103-Men's Bathroom Sink FL			9:15am		
AT-20A	5949203	Room 103- Women's Bathroom Sink FD			9:20am		
AT-20B	5949204	Room 103- Women's Bathroom Sink FL			9:20am		
AT-21A	5949205	Room 104- Bathroom 1 Sink FD			9:28am		
AT-21B	5949206	Room 104- Bathroom 1 Sink FL			9:28am		
AT-22A	5949207	Room 104- Bathroom 2 Sink FD			9:32am		
AT-22B	5949208	Room 104 Bathroom 2 Sink FL			9:33am		
AT-23A	5949209	Room 105-Men's Bathroom Sink FD			9:37am		
AT-23B	5949210	Room 105- Men's Bathroom Sink FL			9:37am		

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

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International Asbestos
Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 06/17/16)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	102
Lab Control Std	1.220	98
Matrix Spike - LBP *	0.45	96
Matrix Spike - Wipe *	0.33	103
Matrix Spike - Soil *	0.332	95
Matrix spike - Air *		
2.5 ppm Standard	0.25	95
10.0 ppm Standard	1.0	101
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: 

R. Chad Shaffer

Date: 6/17/16

Approved By: 

Frank E. Ehrenfeld, III
Laboratory Director