



Environmental  
& Remediation &  
Management, Inc.

20-10 Maple Ave, Bldg. 35E  
Fair Lawn, NJ 07410  
Tele: (973) 949-3525  
Fax: (973) 949-3526  
Email: ermnj@aol.com

CLIENT: Cranford Board of Education Pr. No.: 1022-412

PROJECT: Hillside Avenue School Follow up Lead (Pb) in water sampling

FIELD TECHNICIANS: Polina Shchutckaia

REPORT DATE: August 18, 2017 REVISED DATE: August 18, 2017

Environmental Remediation & Management, Inc. was contacted by Cranford Board of Education to conduct a Follow up Lead (Pb) in water sampling at Hillside Avenue School.

Polina Shchutckaia, an environmental field technician with ER&M, arrived at the project site on August 10, 2017 prior to School's employees and occupants arrival and proceeded to collect water samples from designated drinking fountains. Sampling was performed using the guidelines of New Jersey State Department of Education Amendments and New Rules to N. J. A. C. 6A:26, Educational Facilities Lead (Pb) in Drinking Water Immediate Testing issued on July 13, 2016.

Samples were analyzed at International Asbestos Testing Laboratories (IATL), New Jersey (NJDEP No.: 03863). Analytical method was Lead in Water by AAS Graphite Furnace (ASTM D3559-08D, USEPA 40 CFR 141.11B, 2010).

None of the samples within the Hillside Avenue School came back at or above the recommended 'action level' as established by The United States Environmental Protection Agency (USEPA) of 15 parts per billion (ppb). At this time no additional preventive steps need to be taken for those sampled outlets.

If you have any questions, or if we could be of any further assistance, please feel free to contact our office. EnviroVision / ER&M looks forward to providing your home with the service and attention to detail you have come to expect from us.

Sincerely,

Guillermo M. Morales  
EnviroVision Consultants, Inc.  
Environmental Remediation & Management, Inc.

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## CERTIFICATE OF ANALYSIS

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**Client:** Environmental Remediation & Management, Inc.  
20-10 Maple Ave., Bldg. 35E  
Fair Lawn NJ 07410

**Report Date:** 8/14/2017  
**Report No.:** 543678 - Lead Water  
**Project:** 1022-412 Cranford BOE Hillside Elementary  
**Project No.:**

**Client:** ERM398

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### LEAD WATER SAMPLE ANALYSIS SUMMARY

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**Lab No.:**6312225  
**Client No.:**CHA-FB

**Location:**Field Blank

**Result(ppb):**<2.00

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**Lab No.:**6312226  
**Client No.:**CHAF14

**Location:**Boy's Locker Rm

**Result(ppb):**<2.00

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**Lab No.:**6312227  
**Client No.:**CHAF14-Flush


**Location:**Boy's Locker Rm

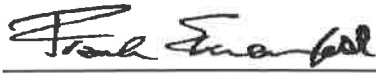
**Result(ppb):**<2.00

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

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**Date Received:** 8/10/2017  
**Date Analyzed:** 08/14/2017  
**Signature:**   
**Analyst:** Mark Stewart

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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**Project:** 1022-412 Cranford BOE Hillside Elementary  
**Project No.:**

**Client:** ERM398

### Appendix to Analytical Report:

**Customer Contact:** Guillermo Morales ermnj@aol.nj  
**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:** Shirley Clark  
**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, 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](mailto: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

- Environmental Lead -

Contact Information	
Client Company: <u>Environ ER&amp;M</u>	Project Number: <u>1022-412 Cranford BOE</u>
Office Address: <u>20-10 Maple Ave, Bldg 3SE</u>	Project Name: <u>Hillside Elementary</u>
City, State, Zip: <u>Fair Lawn, NJ 07410</u>	Primary Contact: <u>Willie Morales</u>
Fax Number: <u>943-636-9144</u>	Office Phone: <u>943-636-9145</u>
Email Address: <u>ermnj@aol.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 \_\_\_\_\_

**Special Instructions:**

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SCANNED

**Turnaround Time**

Preliminary Results Requested Date: standard  AUG 15 2017  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>ER&amp;M Shchutka</u>	Date: <u>08/10/17</u>	Time: _____	
Received (Name / iATL): <u>Chris Dees</u>	Date: <u>8/10/17</u>	Time: <u>1:50 PM</u>	
Sample Login (Name / iATL): <u>CAE</u>	Date: <u>8/14/17</u>	Time: _____	
QA/QC Review (Name / iATL): <u>NO</u>	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Attn: <u>10 2017</u>

IATL by [Signature]

## Sample Log

-Environmental Lead-

Client: ER&M

Project: Hillside School

Sampling Date/Time: 08/10/2017

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
CHA-FB	6312225	field blank			08:14a.m.	250ml	
CHAF14	6312226	Boy's locker RM			08:17	↓	
CHAF14-Flush	6312227	Boy's locker RM			08:32	↓	

Acidified V.P.  
 8/10/17 17:00

\* = 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.



## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 08 / 15 / 17)


Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	99
Lab Control Std	1.780	102
Matrix Spike - LBP *	0.23	105
Matrix Spike - Wipe *	0.28	99
Matrix Spike - Soil *	0.325	92
Matrix spike - Air *	0.050	99
2.5 ppm Standard	0.25	100
10.0 ppm Standard	1.0	100
40.0 ppm Standard	4.0	100

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:   
M. Stewart

Date: 8/15/17

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



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**DAILY FIELD OBSERVATIONS**

<b>CLIENT</b>	Cranford BOE		
<b>PROJECT</b>	Hillside Avenue School		
<b>TECHNICIAN</b>	Polina Shchutckala	<b>CONTRACTOR</b>	N/A
<b>DATE</b>	08/10/2017	<b>PROJECT NO.</b>	1022-412

TIME	OBSERVATIONS
08:00 a.m.	I, Polina Shchutckala, technician from ER&M arrive on site and meet school custodian. He shows me <del>the</del> the fountain in Boy's locker room. School removed two old fountains and installed one new chiller with built-in filter (ELKAY LZS8L w/ water Sentry filter)
08:14	CHA-FB-I collect field blank.
08:17	CHAF14 - Boy's locker room chiller w/filter. Brand new. No built up, no corrosion, no odor or discoloration.
08:32	CHAF14 - Flush - after flush sample (outlet was flushed for 15 minutes).
08:39	I pack my equipment and leave the job site