



- “The Health Department or a testing agency certified by the Pennsylvania Department of Environmental Protection has certified, within the previous five years, that the building is in substantial compliance with applicable water quality requirements of the Board of Health, provided that in no event shall applicable water quality requirements be deemed to permit lead in water at an outlet such as a sink or water fountain that is in service at 10 parts per billion (ppb) or micrograms/liter (ug/L), or more. Any water outlet determined to exceed any such water quality requirements shall be taken out of service within 24 hours of notification of the relevant test. The owner of the educational occupancy shall post the results of the most recent water quality testing at each educational occupancy to a generally available website within ten days of receipt of the results.”

The Board of Health regulation describes your responsibility for testing your water outlets. Results of the testing for each potable water outlet in your facility should be reported to the health department by email to [WaterLeadTesting@phila.gov](mailto:WaterLeadTesting@phila.gov). The submission of results should include the following information:

1. A cover letter that identifies the name, address, and contact information for your facility.
2. A laboratory report that shows the date of sampling, the name of the laboratory performing the analysis, and the lead result for each potable (drinkable) water outlet.
3. If any lead results are reported to be equal to or exceeding the action level of 10 ppb, you must discontinue use of the outlet immediately (within 24 hours). Report your response action(s) associated with an outlet with an elevated lead level in the cover letter. Any outlet with an elevated lead level may be put back into service only after corrective action has been taken and a repeat lead test has shown the level to be less than 10 ppb.

In addition to the requirements by the City of Philadelphia, the EPA recommends that schools implement programs for reducing lead in drinking water as part of the school’s overall plan for reducing environmental threats. Safe and healthy school environments foster healthy children and may improve students’ general performance.

Although drinking water often incorporates low levels of some contaminants as it flows in rivers and collects in aquifers, these materials usually are not detected at harmful levels. Public water suppliers must monitor their water to make sure it complies with science-based public health standards. The EPA sets these maximum allowable levels of contaminants in drinking water under The Safe Drinking Water Act (SDWA).

The health effects language mentioned in this report is not intended to catalog all possible health effects for the following drinking water contaminant. Rather, it is intended to inform consumers of some of the possible health effects associated with drinking water contaminants when the EPA rule and regulations was finalized. A medical doctor is to be consulted if further information is required.

#### *National Primary Drinking Water Regulations*

The U.S. Environmental Protection Agency (EPA) has established National Primary Drinking Water Regulations that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called Maximum Contaminant Levels (MCL), which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer. MCLs are set as close to the health goals as possible, considering cost, benefits, and the ability of public water systems to detect and remove contaminants using suitable treatment technologies. The EPA has set this level of protection based on the best available science to prevent potential health problems. The following paragraphs contain MCLs and brief health effects of those reported to be associated with the samples collected at this time.

- **Lead**, a metal found in natural deposits, is commonly used in household plumbing materials and water service lines. Most lead contamination occurs at some point in the water delivery system. Materials in the water delivery system may include service connections, pipes, brass fixtures, and solder. If subsequent samples yield elevated levels of lead action may require the replacement of water delivery parts with ‘non-lead’ parts. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. However, new homes are also at risk: even legally “lead-free” plumbing may contain up to eight (8) percent lead. The most common problem is with brass or chrome-plated brass faucets and fixtures which can leach significant amounts of lead into the water, especially hot water.

There is no safe level of lead. Lead toxicity affects the nervous system, both in adults and children. Long-term exposure can result in decreased performance in cognitive ability and functions of the nervous system. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. Lead does not noticeably alter the color, taste, or odor of water. The effects of low-level toxicity of lead in water may not be obvious. There may be no symptoms, or the symptoms may be mistaken as flu or other illness. Many domestic water treatment systems remove the majority of lead from drinking water.

The Action Level (AL) of Lead (Pb) in accordance with the City of Philadelphia Code “Action Level” is **10 micrograms per liter (µg/L), or 10 ppb** while the Environmental Protection Agency (EPA) drinking water standard is 15 ppb. The Action Level is defined as the concentration of lead in water that may trigger requirements for corrosion control, source water treatment, lead service line replacement, and public education. Compliance with an action level is based on multiple samples.

### III. Sampling Results

The following tables outline the sample results for each outlet where water samples were collected during this project. All samples reported to be below the Action Level of 10 parts per billion and are listed in the table below. Samples were only collected from operational units.

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
<b>Northeast Building</b>						
01	1st Floor Hallway At Main Lobby Water Cooler	WF	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
02	1st Floor Hallway At Main Lobby Water Cooler	WF	Flush			<1.00
03	1st Floor Hallway At Main Lobby Bottle Filler	HS	First			<1.00
04	1st Floor Hallway At Main Lobby Bottle Filler	HS	Flush			<1.00
05	1st Floor Hallway Outside Cafeteria Water Cool	WF	First			1.10
06	1st Floor Hallway Outside Cafeteria Water Cool	WF	Flush			<1.00
07	1st Floor Hallway Outside Cafeteria Bottle Filler	HS	First			<1.00
08	1st Floor Hallway Outside Cafeteria Bottle Filler	HS	Flush			<1.00
09	2nd Floor - Hallway Next To Women's Restroom Water Cooler	WF	First			<1.00
10	2nd Floor - Hallway Next To Women's Restroom Water Cooler	WF	Flush			<1.00
11	2nd Floor - Hallway Next To Women's Restroom Bottle Filler	HS	First			1.10
12	2nd Floor - Hallway Next To Women's Restroom Bottle Filler	HS	Flush			<1.00
13	2nd Floor - Hallway Near Multi-Purpose Room Water Cooler	WF	First			<1.00
14	2nd Floor - Hallway Near Multi-Purpose Room Water Cooler	WF	Flush			<1.00

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry

Continued on next page

Lead in Drinking Water						
Sample #	Location	Outlet Type	Draw	Sampling Method	CoP Action Level (AL)	Results (ppb)
<b>Northeast Building</b>						
15	2nd Floor - Hallway Near Multi-Purpose Room Bottle Filler	HS	First			<1.00
16	2nd Floor - Hallway Near Multi-Purpose Room Bottle Filler	HS	Flush			1.30
<b>Northwest Building</b>						
17	Kitchen Sink (Left)	S	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	<1.00
18	Kitchen Sink (Left)	S	Flush			1.10
19	Kitchen Sink (Right)	S	First			<1.00
20	Kitchen Sink (Right)	S	Flush			<1.00
21	<b>Kitchen Sink Adjacent Cafeteria Door</b>	<b>S</b>	<b>First</b>			<b>27.8</b>
22	<b>Kitchen Sink Adjacent Cafeteria Door</b>	<b>S</b>	<b>Flush</b>			<b>38.0</b>
23	Kitchen Island Sink	S	First			<1.00
24	Kitchen Island Sink	S	Flush			<1.00
25	Kitchen Hand Wash Sink	S	First			<1.00
26	Kitchen Hand Wash Sink	S	Flush			<1.00
27	1st Floor Hallway (Left) Water Cooler	WF	First			<1.00
28	1st Floor Hallway (Left) Water Cooler	WF	Flush			<1.00
29	1st Floor Hallway (Right) Water Cooler	WF	First			<1.00
30	1st Floor Hallway (Right) Water Cooler	WF	Flush			<1.00
31	5th Floor Kitchenette Sink	S	First	2.00		
32	5th Floor Kitchenette Sink	S	Flush	<1.00		
<b>Southwest Building</b>						
33	1st Floor Hallway Water Cooler	WF	First	ASTM D3559-08D Via AAS-GF	10ppb (parts per billion)	1.00
34	1st Floor Hallway Water Cooler	WF	Flush			1.00
35	1st Floor Hallway Bottle Filler	HS	First			1.00
36	1st Floor Hallway Bottle Filler	HS	Flush			1.00
37	1st Floor Hallway Outside Men's Restroom Water Cooler	WF	First			1.00
38	1st Floor Hallway Outside Men's Restroom Water Cooler	WF	Flush			1.00
39	1st Floor Hallway Outside Men's Restroom Bottle Filler	HS	First			1.00
40	1st Floor Hallway Outside Men's Restroom Bottle Filler	HS	Flush			1.00
41	2nd Floor Hallway Water Cooler	WF	First			1.00
42	<b>2nd Floor Hallway Water Cooler</b>	<b>WF</b>	<b>Flush</b>			<b>13.2</b>
43	2nd Floor Hallway Bottle Filler	HS	First			1.00
44	2nd Floor Hallway Bottle Filler	HS	Flush			1.00
45	3rd Floor Hallway Water Cooler	WF	First			1.00
46	3rd Floor Hallway Water Cooler	WF	Flush			1.00
47	3rd Floor Hallway Bottle Filler	HS	First	1.00		
48	3rd Floor Hallway Bottle Filler	HS	Flush	1.00		

WF = Water Fountain S = Sink Outlet HS = Hydration Station/Bottle Filler ICP – MS = Inductively coupled plasma mass spectrometry

#### IV. Summary of Results

##### A. Outlets with Reported lead levels at or Above the Action Level

The outlets that had lead concentrations at or above the City of Philadelphia Action Level for school buildings (samples 21, 22, 42) are **required to be taken out of service until corrective actions have been taken and re-testing shows the lead concentration to be less than 10 ug/L**. The following corrective actions are recommended.

1. Post signs at each water outlet in the rooms where elevated samples were reported in the table above. The sign shall indicate that each outlet in the rooms/areas are “not for drinking”. In addition, **Synertech also recommends posting such signs at each water outlet throughout the building that are not intended for drinking (i.e., bathroom sinks, hand wash sinks, art room sinks and science room sinks)**.
2. Consult a licensed and insured plumbing contractor to determine the source of the elevated sample results. Potential sources of lead contamination are as follows:
  - ii. Water service lines;
  - iii. Lead soldered joints and fittings;
  - iv. Lead faucets/fixtures.

##### B. Outlets not sampled and outlets with reported lead levels but below the Action Level

Since there is no “safe” level of lead in drinking water, *Synertech Environmental* recommends flushing of drinking water or water outlets used for cooking where the concentrations of lead were reported at any concentration (**any result >1.0 ppb in the table above but less than 10ppb**) to be flushed for at least 30 seconds prior to drinking or using the water for cooking. The more time water has been sitting in the pipes, the more lead it is likely to contain. Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until it becomes as cold as it will get.

*Synertech Environmental, LLC* is pleased to have had the opportunity to provide Universal Companies with our professional environmental services. If you have any questions or would like to discuss this matter further, please do not hesitate to call at 215-755-2305.

Prepared by:  
*Synertech Environmental, LLC*



Ryan Hutsell  
Project Manager  
Pennsylvania Lead Risk Assessor #059512

**Attachment #1**

**Laboratory Certificates of Analysis  
&  
Chain of Custody Forms**

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 4/26/2023  
Report No.: 681897 - Lead Water  
Project: Universal Charter School - Universal Institute  
Project No.: 704-002-4

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7602595      **Location:** 1st Floor Hallway At Main Lobby Water Cooler      **Result(ppb):** <1.00  
**Client No.:** 01      First Draw  
\* Sample acidified to pH <2.

**Lab No.:** 7602596      **Location:** 1st Floor Hallway At Main Lobby Water Cooler      **Result(ppb):** <1.00  
**Client No.:** 02      Flush  
\* Sample acidified to pH <2.

**Lab No.:** 7602597      **Location:** 1st Floor Hallway At Main Lobby Bottle Filler      **Result(ppb):** <1.00  
**Client No.:** 03      First Draw  
\* Sample acidified to pH <2.

**Lab No.:** 7602598      **Location:** 1st Floor Hallway At Main Lobby Bottle Filler      **Result(ppb):** <1.00  
**Client No.:** 04      Flush  
\* Sample acidified to pH <2.


**Lab No.:** 7602599      **Location:** 1st Floor Hallway Outside Cafeteria Water Cool      **Result(ppb):** 1.10  
**Client No.:** 05      First Draw  
\* Sample acidified to pH <2.


**Lab No.:** 7602600      **Location:** 1st Floor Hallway Outside Cafeteria Water Cool      **Result(ppb):** <1.00  
**Client No.:** 06      Flush  
\* Sample acidified to pH <2.

**Lab No.:** 7602601      **Location:** 1st Floor Hallway Outside Cafeteria Bottle      **Result(ppb):** <1.00  
**Client No.:** 07      Filler First Draw  
\* Sample acidified to pH <2.

**Lab No.:** 7602602      **Location:** 1st Floor Hallway Outside Cafeteria Bottle      **Result(ppb):** <1.00  
**Client No.:** 08      Filler Flush  
\* Sample acidified to pH <2.

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

Date Received: 4/17/2023  
Date Analyzed: 04/26/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Synertech Environmental LLC  
228 Moore Street  
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Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7602603      **Location:** 2nd Floor - Hallway Next To Women's Restroom Water Cooler First Draw      **Result(ppb):** <1.00  
**Client No.:** 09  
\* Sample acidified to pH <2.

**Lab No.:** 7602604      **Location:** 2nd Floor - Hallway Next To Women's Restroom Water Cooler Flush      **Result(ppb):** <1.00  
**Client No.:** 10  
\* Sample acidified to pH <2.

**Lab No.:** 7602605      **Location:** 2nd Floor - Hallway Next To Women's Restroom Bottle Filler First Draw      **Result(ppb):** 1.10  
**Client No.:** 11  
\* Sample acidified to pH <2.

**Lab No.:** 7602606      **Location:** 2nd Floor - Hallway Next To Women's Restroom Bottle Filler Flush      **Result(ppb):** <1.00  
**Client No.:** 12  
\* Sample acidified to pH <2.


**Lab No.:** 7602607      **Location:** 2nd Floor - Hallway Near Multi-Purpose Room Water Cooler First Draw      **Result(ppb):** <1.00  
**Client No.:** 13  
\* Sample acidified to pH <2.


**Lab No.:** 7602608      **Location:** 2nd Floor - Hallway Near Multi-Purpose Room Water Cooler Flush      **Result(ppb):** <1.00  
**Client No.:** 14  
\* Sample acidified to pH <2.

**Lab No.:** 7602609      **Location:** 2nd Floor - Hallway Near Multi-Purpose Room Bottle Filler First Draw      **Result(ppb):** <1.00  
**Client No.:** 15  
\* Sample acidified to pH <2.

**Lab No.:** 7602610      **Location:** 2nd Floor - Hallway Near Multi-Purpose Room Bottle Filler Flush      **Result(ppb):** 1.30  
**Client No.:** 16  
\* Sample acidified to pH <2.

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Laboratory Director



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228 Moore Street  
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Report Date: 4/26/2023  
Report No.: 681897 - Lead Water  
Project: Universal Charter School - Universal Institute  
Project No.: 704-002-4

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7602611      Location: Kitchen Sink (Left) First Draw      Result(ppb): <1.00  
Client No.: 17      \* Sample acidified to pH <2.

Lab No.: 7602612      Location: Kitchen Sink (Left) Flush      Result(ppb): 1.10  
Client No.: 18      \* Sample acidified to pH <2.

Lab No.: 7602613      Location: Kitchen Sink (Right) First Draw      Result(ppb): <1.00  
Client No.: 19      \* Sample acidified to pH <2.

Lab No.: 7602614      Location: Kitchen Sink (Right) Flush      Result(ppb): <1.00  
Client No.: 20      \* Sample acidified to pH <2.

Lab No.: 7602615      Location: Kitchen Sink Adjacent Cafeteria Door First Draw      Result(ppb): 27.8  
Client No.: 21      \* Sample acidified to pH <2.

Lab No.: 7602616      Location: Kitchen Sink Adjacent Cafeteria Door Flush      Result(ppb): 38.0  
Client No.: 22      \* Sample acidified to pH <2.


Lab No.: 7602617      Location: Kitchen Island Sink First Draw      Result(ppb): <1.00  
Client No.: 23      \* Sample acidified to pH <2.

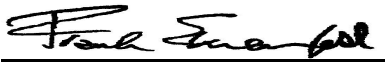
Lab No.: 7602618      Location: Kitchen Island Sink Flush      Result(ppb): <1.00  
Client No.: 24      \* Sample acidified to pH <2.

Lab No.: 7602619      Location: Kitchen Hand Wash Sink First Draw      Result(ppb): <1.00  
Client No.: 25      \* Sample acidified to pH <2.

Lab No.: 7602620      Location: Kitchen Hand Wash Sink Flush      Result(ppb): <1.00  
Client No.: 26      \* Sample acidified to pH <2.

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228 Moore Street  
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Client: SYN177

Report Date: 4/26/2023  
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Project: Universal Charter School - Universal Institute  
Project No.: 704-002-4

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7602621      Location: 1st Floor Hallway (Left) Water Cooler First Draw      Result(ppb): <1.00  
Client No.: 27      \* Sample acidified to pH <2.

Lab No.: 7602622      Location: 1st Floor Hallway (Left) Water Cooler Flush      Result(ppb): <1.00  
Client No.: 28      \* Sample acidified to pH <2.

Lab No.: 7602623      Location: 1st Floor Hallway (Right) Water Cooler First Draw      Result(ppb): 1.00  
Client No.: 29      \* Sample acidified to pH <2.

Lab No.: 7602624      Location: 1st Floor Hallway (Right) Water Cooler Flush      Result(ppb): <1.00  
Client No.: 30      \* Sample acidified to pH <2.

Lab No.: 7602625      Location: 5th Floor Kitchenette Sink First Draw      Result(ppb): 2.00  
Client No.: 31      \* Sample acidified to pH <2.


Lab No.: 7602626      Location: 5th Floor Kitchenette Sink Flush      Result(ppb): 1.00  
Client No.: 32      \* Sample acidified to pH <2.


Lab No.: 7602627      Location: 1st Floor Hallway Water Cooler First Draw      Result(ppb): <1.00  
Client No.: 33      \* Sample acidified to pH <2.

Lab No.: 7602628      Location: 1st Floor Hallway Water Cooler Flush      Result(ppb): <1.00  
Client No.: 34      \* Sample acidified to pH <2.

Lab No.: 7602629      Location: 1st Floor Hallway Bottle Filler First Draw      Result(ppb): <1.00  
Client No.: 35      \* Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7602630      **Location:** 1st Floor Hallway Bottle Filler Flush      **Result(ppb):** <1.00  
**Client No.:** 36      \* Sample acidified to pH <2.

**Lab No.:** 7602631      **Location:** 1st Floor Hallway Outside Men's Restroom      **Result(ppb):** <1.00  
**Client No.:** 37      Water Cooler First Draw  
\* Sample acidified to pH <2.

**Lab No.:** 7602632      **Location:** 1st Floor Hallway Outside Men's Restroom      **Result(ppb):** <1.00  
**Client No.:** 38      Water Cooler Flush  
\* Sample acidified to pH <2.

**Lab No.:** 7602633      **Location:** 1st Floor Hallway Outside Men's Restroom      **Result(ppb):** <1.00  
**Client No.:** 39      Bottle Filler First Draw  
\* Sample acidified to pH <2.

**Lab No.:** 7602634      **Location:** 1st Floor Hallway Outside Men's Restroom      **Result(ppb):** <1.00  
**Client No.:** 40      Bottle Filler Flush  
\* Sample acidified to pH <2.


**Lab No.:** 7602635      **Location:** 2nd Floor Hallway Water Cooler First Draw      **Result(ppb):** <1.00  
**Client No.:** 41      \* Sample acidified to pH <2.


**Lab No.:** 7602636      **Location:** 2nd Floor Hallway Water Cooler Flush      **Result(ppb):** 13.2  
**Client No.:** 42      \* Sample acidified to pH <2.

**Lab No.:** 7602637      **Location:** 2nd Floor Hallway Bottle Filler First Draw      **Result(ppb):** <1.00  
**Client No.:** 43      \* Sample acidified to pH <2.

**Lab No.:** 7602638      **Location:** 2nd Floor Hallway Bottle Filler Flush      **Result(ppb):** <1.00  
**Client No.:** 44      \* Sample acidified to pH <2.

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

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Project: Universal Charter School - Universal Institute  
Project No.: 704-002-4

Client: SYN177

LEAD WATER SAMPLE ANALYSIS SUMMARY


**Lab No.:** 7602639      **Location:** 3rd Floor Hallway Water Cooler First Draw      **Result(ppb):** <1.00  
**Client No.:** 45      \* Sample acidified to pH <2.


**Lab No.:** 7602640      **Location:** 3rd Floor Hallway Water Cooler Flush      **Result(ppb):** 1.00  
**Client No.:** 46      \* Sample acidified to pH <2.

**Lab No.:** 7602641      **Location:** 3rd Floor Hallway Bottle Filler First Draw      **Result(ppb):** 1.00  
**Client No.:** 47      \* Sample acidified to pH <2.

**Lab No.:** 7602642      **Location:** 3rd Floor Hallway Bottle Filler Flush      **Result(ppb):** 1.00  
**Client No.:** 48      \* Sample acidified to pH <2.

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

Date Received: 4/17/2023  
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CERTIFICATE OF ANALYSIS

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Client: Synertech Environmental LLC  
228 Moore Street  
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Report Date: 4/26/2023  
Report No.: 681897 - Lead Water  
Project: Universal Charter School - Universal  
Institute  
Project No.: 704-002-4

Client: SYN177

## Appendix to Analytical Report:

**Customer Contact:**

**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:** 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

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: Synertech Environmental LLC  
228 Moore Street  
Philadelphia PA 19148

Report Date: 4/26/2023  
Report No.: 681897 - Lead Water  
Project: Universal Charter School - Universal  
Institute  
Project No.: 704-002-4

Client: SYN177

**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.



## Chain of Custody Transmittal Lead in Potable Drinking Water Samples via US EPA 200.9

Project Name: Universal Charter School – Universal Institute Project No: 704-002-4

State Sampled: Pennsylvania

Laboratory: iATL **RECEIVED**

Analysis Type: Lead in Drinking Water by EPA 200.9

TAT: 2-Week TAT

Samples Collected By: R. Hutsell

Date/Time 04/13/2023 **APR 17 2023**

Transmitted to Lab By: \_\_\_\_\_

Date/Time \_\_\_\_\_

Received in Lab By: \_\_\_\_\_

Date/Time \_\_\_\_\_

Samples Analyzed By: MS

Date/Time 4/26/23

*@hutsell*

**iATL - BY**

SAMPLE #	LOCATION	REMARKS
<b>Northeast Building</b>		
01	1 <sup>st</sup> Floor Hallway @ Main Lobby Water Cooler	7602595 First Draw
02	1 <sup>st</sup> Floor Hallway @ Main Lobby Water Cooler	7602596 Flush
03	1 <sup>st</sup> Floor Hallway @ Main Lobby Bottle Filler	7602597 First Draw
04	1 <sup>st</sup> Floor Hallway @ Main Lobby Bottle Filler	7602598 Flush
05	1 <sup>st</sup> Floor Hallway outside Cafeteria Water Cooler	7602599 First Draw
06	1 <sup>st</sup> Floor Hallway outside Cafeteria Water Cooler	7602600 Flush
07	1 <sup>st</sup> Floor Hallway outside Cafeteria Bottle Filler	7602601 First Draw
08	1 <sup>st</sup> Floor Hallway outside Cafeteria Bottle Filler	7602602 Flush
09	2 <sup>nd</sup> Floor – Hallway next to Women's Restroom Water Cooler	7602603 First Draw
10	2 <sup>nd</sup> Floor – Hallway next to Women's Restroom Water Cooler	7602604 Flush
11	2 <sup>nd</sup> Floor – Hallway next to Women's Restroom Bottle Filler	7602605 First Draw
12	2 <sup>nd</sup> Floor – Hallway next to Women's Restroom Bottle Filler	7602606 Flush
13	2 <sup>nd</sup> Floor Hallway near Multi-purpose Room Water Cooler	7602607 First Draw
14	2 <sup>nd</sup> Floor Hallway near Multi-purpose Room Water Cooler	7602608 Flush
15	2 <sup>nd</sup> Floor Hallway near Multi-purpose Room Bottle Filler	7602609 First Draw
16	2 <sup>nd</sup> Floor Hallway near Multi-purpose Room Bottle Filler	7602610 Flush
<b>Northwest Building</b>		
17	Kitchen Sink (Left)	7602611 First Draw
18	Kitchen Sink (Left)	7602612 Flush
19	Kitchen Sink (Right)	7602613 First Draw
20	Kitchen Sink (Right)	7602614 Flush
21	Kitchen Sink adjacent Cafeteria Door	7602615 First Draw
22	Kitchen Sink adjacent Cafeteria Door	7602616 Flush



**Chain of Custody Transmittal  
Lead in Potable Drinking Water Samples  
via US EPA 200.9**

Project Name: Universal Charter School – Universal Institute Project No: 704-002-4

State Sampled: Pennsylvania Laboratory: iATL

Analysis Type: Lead in Drinking Water by EPA 200.9 TAT: 2-Week TAT

Samples Collected By: R. Hutsell Date/Time 04/13/2023  
Transmitted to Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
Received in Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
Samples Analyzed By: \_\_\_\_\_ Date/Time \_\_\_\_\_

SAMPLE #	LOCATION		REMARKS
<b>Northwest Building</b>			
23	Kitchen Island Sink	7602617	First Draw
24	Kitchen Island Sink	7602618	Flush
25	Kitchen Hand Wash Sink	7602619	First Draw
26	Kitchen Hand Wash Sink	7602620	Flush
27	1 <sup>st</sup> Floor Hallway (Left) Water Cooler	7602621	First Draw
28	1 <sup>st</sup> Floor Hallway (Left) Water Cooler	7602622	Flush
29	1 <sup>st</sup> Floor Hallway (Right) Water Cooler	7602623	First Draw
30	1 <sup>st</sup> Floor Hallway (Right) Water Cooler	7602624	Flush
31	5 <sup>th</sup> Floor Kitchenette Sink	7602625	First Draw
32	5 <sup>th</sup> Floor Kitchenette Sink	7602626	Flush
<b>Southwest Building</b>			
33	1 <sup>st</sup> Floor Hallway Water Cooler	7602627	First Draw
34	1 <sup>st</sup> Floor Hallway Water Cooler	7602628	Flush
35	1 <sup>st</sup> Floor Hallway Bottle Filler	7602629	First Draw
36	1 <sup>st</sup> Floor Hallway Bottle Filler	7602630	Flush
37	1 <sup>st</sup> Floor Hallway outside Men's Restroom Water Cooler	7602631	First Draw
38	1 <sup>st</sup> Floor Hallway outside Men's Restroom Water Cooler	7602632	Flush
39	1 <sup>st</sup> Floor Hallway outside Men's Restroom Bottle Filler	7602633	First Draw
40	1 <sup>st</sup> Floor Hallway outside Men's Restroom Bottle Filler	7602634	Flush
41	2 <sup>nd</sup> Floor Hallway Water Cooler	7602635	First Draw
42	2 <sup>nd</sup> Floor Hallway Water Cooler	7602636	Flush





**Chain of Custody Transmittal  
Lead in Potable Drinking Water Samples  
via US EPA 200.9**

Project Name: Universal Charter School – Universal Institute Project No: 704-002-4

State Sampled: Pennsylvania Laboratory: iATL

Analysis Type: Lead in Drinking Water by EPA 200.9 TAT: 2-Week TAT

Samples Collected By: R. Hutsell Date/Time 04/13/2023  
 Transmitted to Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received in Lab By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Samples Analyzed By: \_\_\_\_\_ Date/Time \_\_\_\_\_

SAMPLE #	LOCATION	REMARKS
<b>Southwest Building</b>		
43	2 <sup>nd</sup> Floor Hallway Bottle Filler <b>7602637</b>	First Draw
44	2 <sup>nd</sup> Floor Hallway Bottle Filler <b>7602638</b>	Flush
45	3 <sup>rd</sup> Floor Hallway Water Cooler <b>7602639</b>	First Draw
46	3 <sup>rd</sup> Floor Hallway Water Cooler <b>7602640</b>	Flush
47	3 <sup>rd</sup> Floor Hallway Bottle Filler <b>7602641</b>	First Draw
48	3 <sup>rd</sup> Floor Hallway Bottle Filler <b>7602642</b>	Flush

*Anal by 4/18/23 910*