Synertech inc.
ENVIRONMENTAL CONSULTING

228 Moore Street • Philadelphia, Pennsylvania 19148 • Phone 215-755-2305 • Fax 215-755-2405

August 2nd, 2021

Ms. Tamelia Hinson
Universal Companies
1427 Catharine Street, 4th Floor
Philadelphia, PA 19146

Re: Summary Report for Lead in Water Sampling
Universal Charter Schools – Creighton & Creighton Annex
5401 Tabor Road, Philadelphia, PA
Synertech Project No. 675-290-7

Dear Ms. Hinson:

I. Executive Summary

At the request of the Universal Charter Schools, *Synertech Incorporated* performed lead in water testing at the Universal Creighton Charter School located at 5401 Tabor Road, Philadelphia, Pennsylvania. The water sampling was conducted as a proactive effort by the Universal Charter Schools to evaluate, document, and ensure an acceptable water quality for all potable water outlets throughout the each of the buildings on the school's campus. The project included the collection of samples for analysis for lead in drinking water. This report is a summary of the sampling protocols and testing data.

The water sampling was performed and this report was prepared by Ms. Jennifer Drialo a Pennsylvania certified Lead Inspector at *Synertech Incorporated*.

II. Methodologies and Acceptable Standards

Synertech Incorporated performed sampling for the parameters listed below. Analysis was performed by *International Asbestos Testing Laboratories (iATL)* located in Mt. Laurel, New Jersey.

The quantity of samples collected from each location varied depending on the number of possible potable water outlets present at each building. A total of seventy two (72) samples were collected from different outlet locations throughout the building. The sampling consisted of "first draw" and "flush draw" samples collected at each sample location.

Laws and Regulations

There is no federal law requiring testing of drinking water in schools, except for schools that have their own water supply and are thus regulated under the Safe Drinking Water Act (SDWA). The vast majority of public water suppliers do not include schools in their sampling plans because regulations (specifically the Lead and Copper Rule) require sampling of single-family dwellings. However, Section A-703.2; B. of the City of Philadelphia Code does require the following:

- "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 ppb 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 particular 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 WflterLeadTesti11g@pltila.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 parts per billion (ug/L), 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 parts per billion(ug/L).

In addition to the requirements by the City of Philadelphia, the EPA does recommend 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-leaded' 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 is **"threshold" is 10 micrograms per liter (µg/L), while** the Environmental Protection Agency (EPA) drinking water standard is 15 micrograms per liter (µg/L). The Action Level (threshold) 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 building where water samples were collected during this project. Those sample results reported above the City of Philadelphia action level will appear in **bold** lettering below.

Main School Building

Lead in Drinking Water					
Sample #	**Location**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ug/L)**
Basement					
01	**Fountains o/s Boiler Room - Left**	**First**	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	**30.6**
02	**Fountains o/s Boiler Room - Left**	**Flush**			**10.5**
03	**Fountains o/s Boiler Room-Center**	**First**			**49.0**
04	**Fountains o/s Boiler Room-Center**	**Flush**			**14.2**
05	Fountains o/s Boiler Room-Right	First			8.50
06	Fountains o/s Boiler Room-Right	Flush			5.10
07	Kitchen – Left Sink	First			3.30
08	Kitchen – Left Sink	Flush			ND
09	Kitchen – Right Sink	First			8.40
10	**Kitchen – Right Sink**	**Flush**			**34.0**
11	**Fountain o/s Art Room-Right**	**First**			**37.8**
12	Fountain o/s Art Room-Right	Flush			1.90
13	**Fountain o/s Art Room-Left**	**First**			**24.6**
14	Fountain o/s Art Room-Left	Flush			5.10
1st Floor					
15	Fountain o/s Rm. 104	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	4.60
16	**Fountain o/s Rm. 104**	**Flush**			**63.2**
17	Hall Fountain o/s Boy's Bathroom	First			8.80
18	**Hall Fountain o/s Boy's Bathroom**	**Flush**			**14.9**
2nd Floor					
19	Fountain o/s Rm. 204	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
20	Fountain o/s Rm. 204	Flush			2.10
21	Fountain o/s Rm. 207	First			4.40
22	Fountain o/s Rm. 207	Flush			2.10
3rd Floor					
23	Fountain o/s Rm. 304	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	7.70
24	**Fountain o/s Rm. 304**	**Flush**			**12.5**
25	Fountain o/s Rm. 307	First			2.20
26	Fountain o/s Rm. 307	Flush			3.70

ND = No Lead Detected in Sample

Annex Building

Lead in Drinking Water					
Sample #	**Location**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ug/L)**
01	High Fountain across from Kitchen	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	ND
02	High Fountain across from Kitchen	Flush			ND
03	Kitchen Sink - Left	First			1.10
04	Kitchen Sink - Left	Flush			ND
05	Kitchen Sink - Right	First			5.50
06	Kitchen Sink - Right	Flush			ND
07	Room 401 Fountain	First			ND
08	Room 401 Fountain	Flush			ND
09	Room 401 Sink	First			3.30
10	Room 401 Sink	Flush			1.80

Lead in Drinking Water					
Sample #	**Location**	**Draw**	**Sampling Method**	**CoP Action Level (AL)**	**Results (ug/L)**
11	Room 402 Fountain	First	ICP - MS, USEPA 200.8	10ug/L (milligrams per Liter)	1.50
12	Room 402 Fountain	Flush			ND
13	Room 402 Sink	First			1.30
14	Room 402 Sink	Flush			1.60
15	Room 403 Fountain	First			ND
16	Room 403 Fountain	Flush			ND
17	Room 403 Sink	First			4.50
18	Room 403 Sink	Flush			1.20
19	Room 405 Fountain	First			1.70
20	Room 405 Fountain	Flush			ND
21	Room 405 Sink	First			4.20
22	Room 405 Sink	Flush			ND
23	Room 406 Fountain	First			1.60
24	Room 406 Fountain	Flush			ND
25	Room 406 Sink	First			1.50
26	Room 406 Sink	Flush			1.00
27	Room 407 Fountain	First			1.30
28	Room 407 Fountain	Flush			ND
29	Room 407 Sink	First			2.90
30	Room 407 Sink	Flush			ND
31	Room 408 Fountain	First			ND
32	Room 408 Fountain	Flush			1.90
33	Room 408 Sink	First			5.60
34	Room 408 Sink	Flush			2.50
35	Room 410 Fountain	First			1.30
36	Room 410 Fountain	Flush			2.00
37	Room 410 Sink	First			2.00
38	Room 410 Sink	Flush			1.10
39	Room 411 Fountain	First			2.10
40	Room 411 Fountain	Flush			1.40
41	Room 411 Sink	First			2.60
42	Room 411 Sink	Flush			ND
43	Room 409 Fountain	First			ND
44	Room 409 Fountain	Flush			ND
45	Room 409 Sink	First			4.10
46	Room 409 Sink	Flush			ND

ND = No Lead Detected in Sample

IV. Recommendations

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

1. Lead-bearing plumbing materials in contact with drinking water pose a risk at all times (not just when there is a lead action level (LAL) exceeded); therefore, *Synertech Incorporated* recommends labeling all bathroom outlets with signage indicating that these outlets are “not for drinking”.

2. Flushing of all water outlets for at least 30 seconds prior to drinking or 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.

B. 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 (samples in the **Main Building -** 01,02,03,04,10,11,13,16,18,24) 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. Consult a licensed and insured plumbing contractor to determine the source of the elevated sample results. Potential sources of lead contamination are as follows:

    a. Water service lines;
    b. Lead soldered joints and fittings;
    c. Lead faucets/fixtures.

Synertech Incorporated is pleased to have had the opportunity to provide Universal Charter Schools 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 Incorporated

Jennifer Drialo
Certified Lead Inspector

Attachment 1

Lab Results
&
Chain of Custody Forms

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:	Synertech Inc.	Report Date:	7/27/2021
	228 Moore Street	Report No.:	641011 - Lead Water
	Philadelphia PA 19148	Project:	Creighton School Main Bldg
		Project No.:	675-290-7
Client:	SYN177		

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7257160 **Location:** Fountains O/S Boiler Rm Left FD **Result(ppb):** 30.6
Client No.: 1 * Sample acidified to pH <2.
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Client:	SYN177		

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257161
Client No.:2

Location: Fountains O/S Boiler Rm Left FL
* Sample acidified to pH <2.

Result(ppb):10.5

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

Date Received: 7/16/2021
Date Analyzed: 07/26/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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		Project No.:	675-290-7
Client:	SYN177		

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257162 **Location:**Fountains O/S Boiler Rm Center FD **Result(ppb):**49.0
Client No.:3 * Sample acidified to pH <2.
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641011 - Lead Water
Project: Creighton School Main Bldg
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257163 **Client No.:**4	**Location:**Fountains O/S Boiler Rm Center FL * Sample acidified to pH <2.	**Result(ppb):**14.2
Lab No.:7257164 **Client No.:**5	**Location:**Fountains O/S Boiler Rm Right FD * Sample acidified to pH <2.	**Result(ppb):**8.50
Lab No.:7257165 **Client No.:**6	**Location:**Fountains O/S Boiler Rm Right FL * Sample acidified to pH <2.	**Result(ppb):**5.10
Lab No.:7257166 **Client No.:**7	**Location:**Kitchen Left Sink FD * Sample acidified to pH <2.	**Result(ppb):**3.30
Lab No.:7257167 **Client No.:**8	**Location:**Kitchen Left Sink FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257168 **Client No.:**9	**Location:**Kitchen Right Sink FD * Sample acidified to pH <2.	**Result(ppb):**8.40
Lab No.:7257169 **Client No.:**10	**Location:**Kitchen Right Sink FL * Sample acidified to pH <2.	**Result(ppb):**34.0
Lab No.:7257170 **Client No.:**11	**Location:**Fountain O/S Art Room Right FD * Sample acidified to pH <2.	**Result(ppb):**37.8
Lab No.:7257171 **Client No.:**12	**Location:**Fountain O/S Art Room Right FL * Sample acidified to pH <2.	**Result(ppb):**1.90
Lab No.:7257172 **Client No.:**13	**Location:**Fountain O/S Art Room Left FD * Sample acidified to pH <2.	**Result(ppb):**24.6

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

Date Received: 7/16/2021
Date Analyzed: 07/26/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: SYN177

Report Date: 7/27/2021
Report No.: 641011 - Lead Water
Project: Creighton School Main Bldg
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257173 **Client No.:**14	**Location:**Fountain O/S Art Room Left FL * Sample acidified to pH <2.	**Result(ppb):**5.10
Lab No.:7257174 **Client No.:**15	**Location:**Fountain O/S RM 104 FD * Sample acidified to pH <2.	**Result(ppb):**4.60
Lab No.:7257175 **Client No.:**16	**Location:**Fountain O/S RM 104 FL * Sample acidified to pH <2.	**Result(ppb):**63.2
Lab No.:7257176 **Client No.:**17	**Location:**Hall Fountain O/S Boys Bathroom FD * Sample acidified to pH <2.	**Result(ppb):**8.80
Lab No.:7257177 **Client No.:**18	**Location:**Hall Fountain O/S Boys Bathroom FL * Sample acidified to pH <2.	**Result(ppb):**14.9
Lab No.:7257178 **Client No.:**19	**Location:**Fountain O/S Room 204 FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257179 **Client No.:**20	**Location:**Fountain O/S Room 204 FL * Sample acidified to pH <2.	**Result(ppb):**2.10
Lab No.:7257180 **Client No.:**21	**Location:**Fountain O/S Room 207 FD * Sample acidified to pH <2.	**Result(ppb):**4.40
Lab No.:7257181 **Client No.:**22	**Location:**Fountain O/S Room 207 FL * Sample acidified to pH <2.	**Result(ppb):**2.10
Lab No.:7257182 **Client No.:**23	**Location:**Fountain O/S 304 FD * Sample acidified to pH <2.	**Result(ppb):**7.70

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

Date Received: 7/16/2021
Date Analyzed: 07/26/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 7/27/2021
Report No.: 641011 - Lead Water
Project: Creighton School Main Bldg
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257183 **Location:**Fountain O/S 304 FL **Result(ppb):**12.5
Client No.:24 * Sample acidified to pH <2.

Lab No.:7257184 **Location:**Fountain O/S Of 307 FD **Result(ppb):**2.20
Client No.:25 * Sample acidified to pH <2.

Lab No.:7257185 **Location:**Fountain O/S Of 307 FL **Result(ppb):**3.70
Client No.:26 * Sample acidified to pH <2.

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

Date Received: 7/16/2021
Date Analyzed: 07/26/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Appendix to Analytical Report:

Customer Contact: Jacqueline McMahon
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: 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 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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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.

Synertech inc.
ENVIRONMENTAL CONSULTING
228 Moore Street • Philadelphia, Pennsylvania 19148 • Phone 215-755-2305 • Fax 215-755-2405

MAIN BUILDING

Chain of Custody Transmittal
Lead In Drinking Water Samples via US EPA 200.9

Project Name: CREIGHTON SCHOOL Project No: 675-290-7

RECEIVED
JUL 16 2021
ATL - By

State Sampled: PA Laboratory: _____

Turnaround Time: [ ] 24 hours [] 48 hours [] 1 Week ~~[X]~~ 2 Week

Samples Collected By: J. DRIALO Date/Time 7-16-21
Transmitted to Lab By: J. DRIALO Date/Time 7-17-21
Received in Lab By: _____ Date/Time _____
Samples Analyzed By: [illegible] 7/28/21 Date/Time [illegible] 7/29/21

SAMPLE #	LOCATION	REMARKS
1	FOUNTAINS O/S BOILER RM LEFT	FD 7257160
2	" "	FL 7257161
3	" " CENTER	FD 7257162
4	" "	FL 7257163
5	" " RIGHT	FD 7257164
6	" "	FL 7257165
7	KITCHEN LEFT SINK	FD 7257166
8	" "	FL 7257167
9	KITCHEN RIGHT SINK	FD 7257168
10	" "	FL 7257169
11	FOUNTAIN O/S ART ROOM RIGHT	FD 7257170
12	" "	FL 7257171
13	" " LEFT	FD 7257172
14	" "	FL 7257173
15	FOUNTAIN O/S RM 104	FD 7257174
16	" "	FL 7257175
17	HALL FOUNTAIN O/S BOYS BATHROOM	FD 7257176
18	" "	FL 7257177
19	FOUNTAIN O/S ROOM 204	FD 7257178
20	" "	FL 7257179
21	FOUNTAIN O/S ROOM 207	FD 7257180
22	" "	FL 7257181

FIRST DRAW = FD FLUSH = FL

Synertech inc.
ENVIRONMENTAL CONSULTING
228 Moore Street • Philadelphia, Pennsylvania 19148 • Phone 215-755-2305 • Fax 215-755-2405

MAIN BUILDING

Chain of Custody Transmittal
Lead In Drinking Water Samples
via US EPA 200.9

Project Name: CREIGHTON SCHOOL Project No: 675-290-7

State Sampled: PA Laboratory: IATL

Turnaround Time: [ ] 24 hours [] 48 hours [] 1 Week [X] 2 Week

Samples Collected By: J. DRIALO Date/Time 7-16-21

Transmitted to Lab By: J. DRIALO Date/Time 7-17-21

Received in Lab By: Date/Time

Samples Analyzed By: Date/Time

SAMPLE #	LOCATION	REMARKS
23	FOUNTAIN o/s 304	FD 7257182
24	" "	FL 7257183
25	FOUNTAIN o/s of 307	FD 7257184
26	" "	FL 7257185
	Amd Cs 7/21/21 1530	

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: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257186 **Client No.:**1	**Location:**High Fountain Across From Kitchen FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257187 **Client No.:**2	**Location:**High Fountain Across From Kitchen FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257188 **Client No.:**3	**Location:**Kitchen Sink Left FD * Sample acidified to pH <2.	**Result(ppb):**1.10
Lab No.:7257189 **Client No.:**4	**Location:**Kitchen Sink Left FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257190 **Client No.:**5	**Location:**Kitchen Sink Right FD * Sample acidified to pH <2.	**Result(ppb):**5.50
Lab No.:7257191 **Client No.:**6	**Location:**Kitchen Sink Right FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257192 **Client No.:**7	**Location:**Room 401 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257193 **Client No.:**8	**Location:**Room 401 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257194 **Client No.:**9	**Location:**Room 401 Sink FD * Sample acidified to pH <2.	**Result(ppb):**3.30
Lab No.:7257195 **Client No.:**10	**Location:**Room 401 Sink FL * Sample acidified to pH <2.	**Result(ppb):**1.80

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257196 **Client No.:**11	**Location:**Room 402 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**1.50
Lab No.:7257197 **Client No.:**12	**Location:**Room 402 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257198 **Client No.:**13	**Location:**Room 402 Sink FD * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7257199 **Client No.:**14	**Location:**Room 402 Sink FL * Sample acidified to pH <2.	**Result(ppb):**1.60
Lab No.:7257200 **Client No.:**15	**Location:**Room 403 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257201 **Client No.:**16	**Location:**Room 403 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257202 **Client No.:**17	**Location:**Room 403 Sink FD * Sample acidified to pH <2.	**Result(ppb):**4.50
Lab No.:7257203 **Client No.:**18	**Location:**Room 403 Sink FL * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7257204 **Client No.:**19	**Location:**Room 405 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**1.70
Lab No.:7257205 **Client No.:**20	**Location:**Room 405 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
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Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257206 **Client No.:**21	**Location:**Room 405 Sink FD * Sample acidified to pH <2.	**Result(ppb):**4.20
Lab No.:7257207 **Client No.:**22	**Location:**Room 405 Sink FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257208 **Client No.:**23	**Location:**Room 406 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**1.60
Lab No.:7257209 **Client No.:**24	**Location:**Room 406 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257210 **Client No.:**25	**Location:**Room 406 Sink FD * Sample acidified to pH <2.	**Result(ppb):**1.50
Lab No.:7257211 **Client No.:**26	**Location:**Room 406 Sink FL * Sample acidified to pH <2.	**Result(ppb):**1.00
Lab No.:7257212 **Client No.:**27	**Location:**Room 407 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7257213 **Client No.:**28	**Location:**Room 407 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257214 **Client No.:**29	**Location:**Room 407 Sink FD * Sample acidified to pH <2.	**Result(ppb):**2.90
Lab No.:7257215 **Client No.:**30	**Location:**Room 407 Sink FL * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257216 **Client No.:**31	**Location:**Room 408 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257217 **Client No.:**32	**Location:**Room 408 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**1.90
Lab No.:7257218 **Client No.:**33	**Location:**Room 408 Sink FD * Sample acidified to pH <2.	**Result(ppb):**5.60
Lab No.:7257219 **Client No.:**34	**Location:**Room 408 Sink FL * Sample acidified to pH <2.	**Result(ppb):**2.50
Lab No.:7257220 **Client No.:**35	**Location:**Room 410 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7257221 **Client No.:**36	**Location:**Room 410 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**2.00
Lab No.:7257222 **Client No.:**37	**Location:**Room 410 Sink FD * Sample acidified to pH <2.	**Result(ppb):**2.00
Lab No.:7257223 **Client No.:**38	**Location:**Room 410 Sink FL * Sample acidified to pH <2.	**Result(ppb):**1.10
Lab No.:7257224 **Client No.:**39	**Location:**Room 411 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**2.10
Lab No.:7257225 **Client No.:**40	**Location:**Room 411 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**1.40

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7257226 **Client No.:**41	**Location:**Room 411 Sink FD * Sample acidified to pH <2.	**Result(ppb):**2.60
Lab No.:7257227 **Client No.:**42	**Location:**Room 411 Sink FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257228 **Client No.:**43	**Location:**Room 409 Fountain FD * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257229 **Client No.:**44	**Location:**Room 409 Fountain FL * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7257230 **Client No.:**45	**Location:**Room 409 Sink FD * Sample acidified to pH <2.	**Result(ppb):**4.10
Lab No.:7257231 **Client No.:**46	**Location:**Room 409 Sink FL * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 7/16/2021
Date Analyzed: 07/27/2021
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Client: SYN177

Report Date: 7/27/2021
Report No.: 641012 - Lead Water
Project: Creighton School Annex
Project No.: 675-290-7

Appendix to Analytical Report:

Customer Contact: Jacqueline McMahon
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: 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 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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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Synertech Inc.	Report Date:	7/27/2021
	228 Moore Street	Report No.:	641012 - Lead Water
	Philadelphia PA 19148	Project:	Creighton School Annex
		Project No.:	675-290-7
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.**

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.

Synertech Inc.
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228 Moore Street • Philadelphia, Pennsylvania 19148 • Phone 215-755-2305 • Fax 215-755-2405

Chain of Custody Transmittal
Lead In Drinking Water Samples
via US EPA 200.9

Project Name: CREIGHTON ANNEX Project No: 675-290-7

State Sampled: PA Laboratory: IATL RECEIVED

Turnaround Time: [ ] 24 hours [] 48 hours [] 1 Week [X] 2 Week

Samples Collected By: J. DRIALO Date/Time 7-16-21
Transmitted to Lab By: J. DRIALO Date/Time 7-17-21
Received in Lab By: _____ Date/Time _____
Samples Analyzed By: 07/27/21 Date/Time _____

JUL 16 2021
IATL - By

SAMPLE #	LOCATION	REMARKS
1	HIGH FOUNTAIN ACROSS FROM KITCHEN	FD 7257186
2	" "	FL 7257187
3	KITCHEN SINK LEFT	FD 7257188
4	" "	FL 7257189
5	" " RIGHT	FD 7257190
6	" "	FL 7257191
7	ROOM 401 FOUNTAIN	FD 7257192
8	" "	FL 7257193
9	" " SINK	FD 7257194
10	" "	FL 7257195
11	ROOM 402 FOUNTAIN	FD 7257196
12	" "	FL 7257197
13	" " SINK	FD 7257198
14	" "	FL 7257199
15	ROOM 403 FOUNTAIN	FD 7257200
16	" "	FL 7257201
17	" " SINK	FD 7257202
18	" "	FL 7257203
19	ROOM 405 FOUNTAIN	FD 7257204
20	" "	FL 7257205
21	" " SINK	FD 7257206
22	" "	FL 7257207

FIRST DRAW = FD FLUSH = FL

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Chain of Custody Transmittal
Lead In Drinking Water Samples
via US EPA 200.9

Project Name: CREIGHTON ANNEX Project No: 675-290-7

State Sampled: PA Laboratory: IATL

Turnaround Time: [ ] 24 hours [] 48 hours [] 1 Week [X] Week

Samples Collected By: J. DRIALO Date/Time 7-16-21
Transmitted to Lab By: J. DRIALO Date/Time 7-17-21
Received in Lab By: Date/Time
Samples Analyzed By: Date/Time

FIRST DRAW = FD FLUSH = FL

SAMPLE #	LOCATION	REMARKS	
23	ROOM 406 FOUNTAIN	FD	7257208
24	" "	FL	7257209
25	" " SINK	FD	7257210
26	" "	FL	7257211
27	ROOM 407 FOUNTAIN	FD	7257212
28	" "	FL	7257213
29	" " SINK	FD	7257214
30	" "	FL	7257215
31	ROOM 408 FOUNTAIN	FD	7257216
32	" "	FL	7257217
33	" " SINK	FD	7257218
34	" "	FL	7257219
35	ROOM 410 FOUNTAIN	FD	7257220
36	" "	FL	7257221
37	" " SINK	FD	7257222
38	" "	FL	7257223
39	ROOM 411 FOUNTAIN	FD	7257224
40	" "	FL	7257225
41	" " SINK	FD	7257226
42	" "	FL	7257227
43	ROOM 409 FOUNTAIN	FD	7257228
44	" "	FL	7257229
45	" " SINK	FD	7257230

And 7/25/21