

July 17, 2019

Mike Nickerson, CHMM
Environmental/Safety Coordinator
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

**Re: Lead in Drinking Water Sample Collection and Reporting
Holicong Middle School
2900 Township 391 Hwy
Doylestown, PA 18902
Bucks County, Pennsylvania**

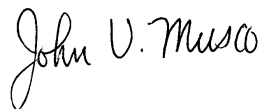
Dear Mr. Nickerson:

This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. fountains, sink faucets, etc.) as identified by the Central Bucks School District facility inventory. The collected samples were sent to the Pennsylvania certified environmental laboratory, PACE Analytical, and analyzed for total lead by USEPA Method 200.8, to meet Pennsylvania's action level requirements.

The results did not detect any exceedances at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L).

A field sketch of the sampling locations and copy of the laboratory report is attached.

Sincerely,
Langan Engineering & Environmental Services, Inc.



John V. Musco
Associate

Enclosure

cc: R. Copenhaver, PG – Langan
B. Lambing. - Langan
Tyler Arinder – Langan

NJ Certificate of Authorization No. 24GA27996400

\\langan.com\data\DYL\data4\200130401\Project Data\Record Data\Reports\Day 9_6-15-19 Holicong_Warwick_Jamison\Holicong_Lead_Sampling_Memo.docx

July 02, 2019

Randy Copenhaver
Langan Engineering
2700 Kelly Road, Suite 200
Warrington, PA 18976

RE: Project: CENTRAL BUCKS SCHOOL(HOLICONG)
Pace Project No.: 7094191

Dear Randy Copenhaver:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Bill Lambing, Langan Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)

Pace Project No.: 7094191

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)

Pace Project No.: 7094191

Sample: 102A	Lab ID: 7094191001	Collected: 06/15/19 07:13	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:33	7439-92-1	
Sample: 110A	Lab ID: 7094191002	Collected: 06/15/19 07:16	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:36	7439-92-1	
Sample: 100F	Lab ID: 7094191003	Collected: 06/15/19 07:15	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:39	7439-92-1	
Sample: 111A	Lab ID: 7094191004	Collected: 06/15/19 07:15	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:49	7439-92-1	
Sample: 111B	Lab ID: 7094191005	Collected: 06/15/19 07:15	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:52	7439-92-1	
Sample: 112	Lab ID: 7094191006	Collected: 06/15/19 07:19	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 05:55	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)
Pace Project No.: 7094191

Sample: 113		Lab ID: 7094191007	Collected: 06/15/19 07:21	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 05:58	7439-92-1	
Sample: 150A		Lab ID: 7094191008	Collected: 06/15/19 07:09	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:07	7439-92-1	
Sample: 150B		Lab ID: 7094191009	Collected: 06/15/19 07:09	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:10	7439-92-1	
Sample: 143A		Lab ID: 7094191010	Collected: 06/15/19 07:11	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:13	7439-92-1	
Sample: 144A		Lab ID: 7094191011	Collected: 06/15/19 07:11	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:16	7439-92-1	
Sample: 141A		Lab ID: 7094191012	Collected: 06/15/19 07:04	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:19	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)
Pace Project No.: 7094191

Sample: 141B		Lab ID: 7094191013	Collected: 06/15/19 07:04	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:28	7439-92-1	
Sample: 141C		Lab ID: 7094191014	Collected: 06/15/19 07:05	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:43	7439-92-1	
Sample: 141D		Lab ID: 7094191015	Collected: 06/15/19 07:05	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:46	7439-92-1	
Sample: 141E		Lab ID: 7094191016	Collected: 06/15/19 07:05	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:49	7439-92-1	
Sample: 141F		Lab ID: 7094191017	Collected: 06/15/19 07:04	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:52	7439-92-1	
Sample: 141G		Lab ID: 7094191018	Collected: 06/15/19 07:04	Received: 06/18/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 06:55	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)
Pace Project No.: 7094191

Sample: 140A	Lab ID: 7094191019	Collected: 06/15/19 07:02	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 06:59	7439-92-1	
Sample: 140B	Lab ID: 7094191020	Collected: 06/15/19 07:02	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:02	7439-92-1	
Sample: 140C	Lab ID: 7094191021	Collected: 06/15/19 07:02	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:05	7439-92-1	
Sample: 126	Lab ID: 7094191022	Collected: 06/15/19 06:59	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	1.4	ug/L	1.0	1		06/29/19 07:08	7439-92-1	
Sample: 126A	Lab ID: 7094191023	Collected: 06/15/19 06:59	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:11	7439-92-1	
Sample: 126B	Lab ID: 7094191024	Collected: 06/15/19 06:59	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:26	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)

Pace Project No.: 7094191

Sample: 126C	Lab ID: 7094191025	Collected: 06/15/19 06:59	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:29	7439-92-1	
Sample: C4	Lab ID: 7094191026	Collected: 06/15/19 06:56	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:32	7439-92-1	
Sample: 240	Lab ID: 7094191027	Collected: 06/15/19 07:27	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:35	7439-92-1	
Sample: 240B	Lab ID: 7094191028	Collected: 06/15/19 07:26	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:38	7439-92-1	
Sample: 240C	Lab ID: 7094191029	Collected: 06/15/19 07:26	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:41	7439-92-1	
Sample: 218A	Lab ID: 7094191030	Collected: 06/15/19 07:24	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:44	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)

Pace Project No.: 7094191

Sample: 218B	Lab ID: 7094191031	Collected: 06/15/19 07:24	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:47	7439-92-1	
Sample: 207	Lab ID: 7094191032	Collected: 06/15/19 07:32	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 07:56	7439-92-1	
Sample: 207A	Lab ID: 7094191033	Collected: 06/15/19 07:30	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 08:05	7439-92-1	
Sample: 207B	Lab ID: 7094191034	Collected: 06/15/19 07:30	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 08:15	7439-92-1	
Sample: 207C	Lab ID: 7094191035	Collected: 06/15/19 07:30	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 08:18	7439-92-1	
Sample: 240A	Lab ID: 7094191036	Collected: 06/15/19 07:26	Received: 06/18/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/29/19 08:21	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(HOLICONG)

Pace Project No.: 7094191

Sample: 207D		Lab ID: 7094191037		Collected: 06/15/19 07:31	Received: 06/18/19 11:00	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/29/19 08:24	7439-92-1	

Sample: 230G		Lab ID: 7094191038		Collected: 06/15/19 07:29	Received: 06/18/19 11:00	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/30/19 13:39	7439-92-1	

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