

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  
Kutz Elementary School  
1950 Turk Road  
Doylestown, PA 18901  
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) with the exception of the following locations:

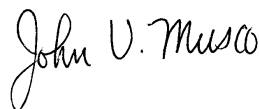
<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Nurses office	KNO	16.2 ug/L
E4	KE4	25.7 ug/L

As requested by Mike Nickerson, here is a list of locations with lead results above 10 ug/L, but below Pennsylvania Action Level of 15 ug/L are as follows:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
E5	KE5	13.0 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 2\_6-6-19\_Lenape\_Linden\_Kutz\Kutz\_Lead\_Sampling\_Memo.docx

June 25, 2019

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

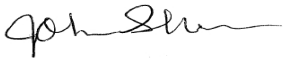
RE: Project: CENTRAL BUCKS SCHOOL (KUTZ)  
Pace Project No.: 7093913

Dear Randy Copenhaver:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 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 (KUTZ)

Pace Project No.: 7093913

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### 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

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)  
Pace Project No.: 7093913

Sample: KA2	Lab ID: 7093913001	Collected: 06/06/19 06:01	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	6.6	ug/L	1.0	1		06/20/19 23:53	7439-92-1	
Sample: KA3	Lab ID: 7093913002	Collected: 06/06/19 06:00	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.2	ug/L	1.0	1		06/21/19 00:02	7439-92-1	
Sample: KA4	Lab ID: 7093913003	Collected: 06/06/19 05:59	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.3	ug/L	1.0	1		06/21/19 00:05	7439-92-1	
Sample: KA5	Lab ID: 7093913004	Collected: 06/06/19 05:59	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.5	ug/L	1.0	1		06/21/19 00:08	7439-92-1	
Sample: KA6	Lab ID: 7093913005	Collected: 06/06/19 05:58	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.6	ug/L	1.0	1		06/21/19 00:11	7439-92-1	
Sample: KA7	Lab ID: 7093913006	Collected: 06/06/19 05:57	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.4	ug/L	1.0	1		06/21/19 00:14	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)

Pace Project No.: 7093913

Sample: KA8		Lab ID: 7093913007	Collected: 06/06/19 05:55	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.4	ug/L	1.0	1		06/21/19 00:17	7439-92-1	
Sample: KA9		Lab ID: 7093913008	Collected: 06/06/19 05:54	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.8	ug/L	1.0	1		06/21/19 00:20	7439-92-1	
Sample: KA10		Lab ID: 7093913009	Collected: 06/06/19 05:53	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.7	ug/L	1.0	1		06/21/19 00:23	7439-92-1	
Sample: KA11		Lab ID: 7093913010	Collected: 06/06/19 06:08	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 00:26	7439-92-1	
Sample: KA12		Lab ID: 7093913011	Collected: 06/06/19 05:27	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.7	ug/L	1.0	1		06/21/19 00:42	7439-92-1	
Sample: KA12F		Lab ID: 7093913012	Collected: 06/06/19 05:26	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 00:45	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)

Pace Project No.: 7093913

Sample: KA13	Lab ID: 7093913013	Collected: 06/06/19 05:29	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.1	ug/L	1.0	1		06/21/19 00:48	7439-92-1	
<b>Sample: KA13F</b>	<b>Lab ID: 7093913014</b>	Collected: 06/06/19 05:28	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 00:51	7439-92-1	
<b>Sample: KA14</b>	<b>Lab ID: 7093913015</b>	Collected: 06/06/19 05:30	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.0	ug/L	1.0	1		06/21/19 00:54	7439-92-1	
<b>Sample: KMOK</b>	<b>Lab ID: 7093913016</b>	Collected: 06/06/19 06:03	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.4	ug/L	1.0	1		06/21/19 00:57	7439-92-1	
<b>Sample: KNO</b>	<b>Lab ID: 7093913017</b>	Collected: 06/06/19 06:05	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	16.2	ug/L	1.0	1		06/21/19 01:00	7439-92-1	
<b>Sample: KNTR</b>	<b>Lab ID: 7093913018</b>	Collected: 06/06/19 06:04	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.3	ug/L	1.0	1		06/21/19 01:03	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)

Pace Project No.: 7093913

Sample: KK1	Lab ID: 7093913019	Collected: 06/06/19 05:50	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	3.3	ug/L	1.0	1		06/21/19 01:06	7439-92-1	
<b>Sample: KCAF</b>	<b>Lab ID: 7093913020</b>	Collected: 06/06/19 05:49	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 01:21	7439-92-1	
<b>Sample: KF</b>	<b>Lab ID: 7093913021</b>	Collected: 06/06/19 05:49	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 01:30	7439-92-1	
<b>Sample: KB1</b>	<b>Lab ID: 7093913022</b>	Collected: 06/06/19 05:45	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.9	ug/L	1.0	1		06/21/19 01:33	7439-92-1	
<b>Sample: KB2</b>	<b>Lab ID: 7093913023</b>	Collected: 06/06/19 05:46	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.7	ug/L	1.0	1		06/21/19 01:36	7439-92-1	
<b>Sample: KB3</b>	<b>Lab ID: 7093913024</b>	Collected: 06/06/19 05:44	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.3	ug/L	1.0	1		06/21/19 01:39	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)

Pace Project No.: 7093913

Sample: KB5A		Lab ID: 7093913025	Collected: 06/06/19 05:43	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.5	ug/L	1.0	1		06/21/19 01:42	7439-92-1	
Sample: KB5B		Lab ID: 7093913026	Collected: 06/06/19 05:42	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.1	ug/L	1.0	1		06/21/19 01:51	7439-92-1	
Sample: KD1		Lab ID: 7093913027	Collected: 06/06/19 05:32	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.9	ug/L	1.0	1		06/21/19 01:54	7439-92-1	
Sample: KD2		Lab ID: 7093913028	Collected: 06/06/19 05:33	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 01:57	7439-92-1	
Sample: KD3		Lab ID: 7093913029	Collected: 06/06/19 05:35	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	2.0	ug/L	1.0	1		06/21/19 02:00	7439-92-1	
Sample: KD4		Lab ID: 7093913030	Collected: 06/06/19 05:36	Received: 06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.0	ug/L	1.0	1		06/21/19 02:04	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)  
Pace Project No.: 7093913

Sample: KD5	Lab ID: 7093913031	Collected: 06/06/19 05:37	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.6	ug/L	1.0	1		06/21/19 02:13	7439-92-1	
<b>Sample: KD6</b>	<b>Lab ID: 7093913032</b>	Collected: 06/06/19 05:38	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.3	ug/L	1.0	1		06/21/19 02:16	7439-92-1	
<b>Sample: KD7</b>	<b>Lab ID: 7093913033</b>	Collected: 06/06/19 05:39	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 02:19	7439-92-1	
<b>Sample: KC1</b>	<b>Lab ID: 7093913034</b>	Collected: 06/06/19 06:12	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.2	ug/L	1.0	1		06/21/19 02:28	7439-92-1	
<b>Sample: KC2</b>	<b>Lab ID: 7093913035</b>	Collected: 06/06/19 06:12	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	2.5	ug/L	1.0	1		06/21/19 02:31	7439-92-1	
<b>Sample: KC3</b>	<b>Lab ID: 7093913036</b>	Collected: 06/06/19 06:11	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	3.7	ug/L	1.0	1		06/21/19 02:34	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (KUTZ)

Pace Project No.: 7093913

Sample: KHALL	Lab ID: 7093913037	Collected: 06/06/19 06:14	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 02:37	7439-92-1	
<b>Sample: KE1</b>	<b>Lab ID: 7093913038</b>	Collected: 06/06/19 06:15	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	7.3	ug/L	1.0	1		06/25/19 05:13	7439-92-1	
<b>Sample: KE2</b>	<b>Lab ID: 7093913039</b>	Collected: 06/06/19 06:17	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	6.0	ug/L	1.0	1		06/25/19 05:16	7439-92-1	
<b>Sample: KE3</b>	<b>Lab ID: 7093913040</b>	Collected: 06/06/19 06:19	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	5.6	ug/L	1.0	1		06/21/19 02:46	7439-92-1	
<b>Sample: KE4</b>	<b>Lab ID: 7093913041</b>	Collected: 06/06/19 06:18	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	25.7	ug/L	1.0	1		06/21/19 02:55	7439-92-1	
<b>Sample: KE5</b>	<b>Lab ID: 7093913042</b>	Collected: 06/06/19 06:16	Received: 06/12/19 11:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	13.0	ug/L	1.0	1		06/21/19 03:04	7439-92-1	

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