

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
Linden Elementary School
480 Linden Avenue
Doylestown, PA 18901
Bucks County, Pennsylvania**

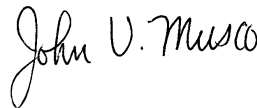
Dear Mr. Nickerson:

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).

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\DY\data4\200130401\Project Data\Record Data\Reports\Day 2_6-6-19_Lenape_Linden_Kutz\Linden_Lead_Sampling_Memo.docx

June 25, 2019

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

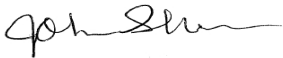
RE: Project: CENTRAL BUCKS SCHOOL (LINDEN)
Pace Project No.: 7093962

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 (LINDEN)

Pace Project No.: 7093962

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 (LINDEN)

Pace Project No.: 7093962

Sample: L1		Lab ID: 7093962001	Collected: 06/06/19 04:49	Received: 06/12/19 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		06/21/19 08:02	7439-92-1	
Sample: L2		Lab ID: 7093962002	Collected: 06/06/19 04:48	Received: 06/12/19 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		06/21/19 08:06	7439-92-1	
Sample: LFD		Lab ID: 7093962003	Collected: 06/06/19 04:50	Received: 06/12/19 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		06/21/19 08:09	7439-92-1	
Sample: LA103		Lab ID: 7093962004	Collected: 06/06/19 04:51	Received: 06/12/19 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		06/21/19 08:12	7439-92-1	
Sample: LA104		Lab ID: 7093962005	Collected: 06/06/19 04:52	Received: 06/12/19 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		06/21/19 08:15	7439-92-1	
Sample: LCAF		Lab ID: 7093962006	Collected: 06/06/19 04:45	Received: 06/12/19 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		06/21/19 08:18	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)
Pace Project No.: 7093962

Sample: LK		Lab ID: 7093962007	Collected: 06/06/19 04:46	Received: 06/12/19 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		06/21/19 08:33	7439-92-1	
Sample: LMO		Lab ID: 7093962008	Collected: 06/06/19 04:53	Received: 06/12/19 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	2.5	ug/L	1.0	1		06/21/19 08:36	7439-92-1	
Sample: L3		Lab ID: 7093962009	Collected: 06/06/19 04:54	Received: 06/12/19 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		06/21/19 08:39	7439-92-1	
Sample: L5		Lab ID: 7093962010	Collected: 06/06/19 04:55	Received: 06/12/19 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		06/21/19 08:42	7439-92-1	
Sample: L5F		Lab ID: 7093962011	Collected: 06/06/19 04:56	Received: 06/12/19 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		06/21/19 08:45	7439-92-1	
Sample: L7		Lab ID: 7093962012	Collected: 06/06/19 04:58	Received: 06/12/19 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		06/21/19 08:48	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)
Pace Project No.: 7093962

Sample: L8		Lab ID: 7093962013	Collected: 06/06/19 04:59	Received: 06/12/19 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		06/21/19 08:51	7439-92-1	
Sample: L9		Lab ID: 7093962014	Collected: 06/06/19 05:00	Received: 06/12/19 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		06/21/19 08:54	7439-92-1	
Sample: L10		Lab ID: 7093962015	Collected: 06/06/19 05:01	Received: 06/12/19 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	1.2	ug/L	1.0	1		06/21/19 08:57	7439-92-1	
Sample: L11		Lab ID: 7093962016	Collected: 06/06/19 05:01	Received: 06/12/19 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		06/21/19 09:13	7439-92-1	
Sample: L12		Lab ID: 7093962017	Collected: 06/06/19 05:02	Received: 06/12/19 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		06/21/19 09:22	7439-92-1	
Sample: L13		Lab ID: 7093962018	Collected: 06/06/19 05:03	Received: 06/12/19 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		06/21/19 09:25	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)
Pace Project No.: 7093962

Sample: L14		Lab ID: 7093962019	Collected: 06/06/19 05:04	Received: 06/12/19 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		06/21/19 09:28	7439-92-1	
Sample: L15		Lab ID: 7093962020	Collected: 06/06/19 05:05	Received: 06/12/19 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		06/21/19 09:31	7439-92-1	
Sample: L16		Lab ID: 7093962021	Collected: 06/06/19 05:06	Received: 06/12/19 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		06/21/19 09:34	7439-92-1	
Sample: L20		Lab ID: 7093962022	Collected: 06/06/19 04:32	Received: 06/12/19 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		06/21/19 09:37	7439-92-1	
Sample: L21		Lab ID: 7093962023	Collected: 06/06/19 04:34	Received: 06/12/19 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		06/21/19 09:46	7439-92-1	
Sample: L22		Lab ID: 7093962024	Collected: 06/06/19 04:35	Received: 06/12/19 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		06/21/19 09:49	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)

Pace Project No.: 7093962

Sample: L23	Lab ID: 7093962025	Collected: 06/06/19 04:36	Received: 06/12/19 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		06/21/19 09:52	7439-92-1	
Sample: L24	Lab ID: 7093962026	Collected: 06/06/19 04:37	Received: 06/12/19 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		06/21/19 09:55	7439-92-1	
Sample: L25	Lab ID: 7093962027	Collected: 06/06/19 04:39	Received: 06/12/19 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		06/21/19 10:04	7439-92-1	
Sample: L26	Lab ID: 7093962028	Collected: 06/06/19 04:40	Received: 06/12/19 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		06/21/19 10:07	7439-92-1	
Sample: L27	Lab ID: 7093962029	Collected: 06/06/19 04:41	Received: 06/12/19 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		06/21/19 10:10	7439-92-1	
Sample: L30	Lab ID: 7093962030	Collected: 06/06/19 04:18	Received: 06/12/19 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		06/21/19 10:13	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)

Pace Project No.: 7093962

Sample: L31	Lab ID: 7093962031	Collected: 06/06/19 04:19	Received: 06/12/19 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		06/25/19 04:58	7439-92-1	
Sample: L32	Lab ID: 7093962032	Collected: 06/06/19 04:20	Received: 06/12/19 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		06/25/19 05:01	7439-92-1	
Sample: L33	Lab ID: 7093962033	Collected: 06/06/19 04:21	Received: 06/12/19 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		06/25/19 05:04	7439-92-1	
Sample: L34	Lab ID: 7093962034	Collected: 06/06/19 04:22	Received: 06/12/19 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		06/25/19 05:07	7439-92-1	
Sample: L35	Lab ID: 7093962035	Collected: 06/06/19 04:23	Received: 06/12/19 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		06/25/19 05:10	7439-92-1	
Sample: L36	Lab ID: 7093962036	Collected: 06/06/19 04:27	Received: 06/12/19 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		06/25/19 05:31	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (LINDEN)

Pace Project No.: 7093962

Sample: L37		Lab ID: 7093962037		Collected: 06/06/19 04:29	Received: 06/12/19 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		06/25/19 05:40	7439-92-1	
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Sample: LMC1		Lab ID: 7093962038		Collected: 06/06/19 04:17	Received: 06/12/19 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		06/25/19 05:43	7439-92-1	
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Sample: LG		Lab ID: 7093962039		Collected: 06/06/19 05:06	Received: 06/12/19 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		06/25/19 05:47	7439-92-1	
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