

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  
Tohickon Middle School  
5051 Old Easton Road  
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.

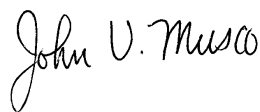
The results did not detect any exceedances at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L) with the exception of the following locations:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Nurses office	TNB	17.6 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 8\_6-14-19 Tohickon\_Gayman\_Groveland\Tohickon\_Lead\_Sampling\_Memo.docx

June 28, 2019

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

RE: Project: CENTRAL BUCKS SCHOOL (TOHICKON)  
Pace Project No.: 7094199

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 (TOHICKON)

Pace Project No.: 7094199

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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 (TOHICKON)  
Pace Project No.: 7094199

Sample: TGLR		Lab ID: 7094199001	Collected: 06/14/19 03:38	Received: 06/18/19 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		06/27/19 21:02	7439-92-1	
Sample: TBLR		Lab ID: 7094199002	Collected: 06/14/19 03:33	Received: 06/18/19 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		06/27/19 21:11	7439-92-1	
Sample: T511F		Lab ID: 7094199003	Collected: 06/14/19 03:35	Received: 06/18/19 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		06/27/19 21:14	7439-92-1	
Sample: T511		Lab ID: 7094199004	Collected: 06/14/19 03:36	Received: 06/18/19 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		06/27/19 21:23	7439-92-1	
Sample: TKWS		Lab ID: 7094199005	Collected: 06/14/19 03:45	Received: 06/18/19 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	2.9	ug/L	1.0	1		06/27/19 21:32	7439-92-1	
Sample: TKHS		Lab ID: 7094199006	Collected: 06/14/19 03:42	Received: 06/18/19 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	3.8	ug/L	1.0	1		06/27/19 21:35	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)

Pace Project No.: 7094199

Sample: TCAF		Lab ID: 7094199007	Collected: 06/14/19 03:47	Received: 06/18/19 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		06/27/19 21:38	7439-92-1	
Sample: TFAC		Lab ID: 7094199008	Collected: 06/14/19 03:51	Received: 06/18/19 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		06/27/19 21:47	7439-92-1	
Sample: TLFA		Lab ID: 7094199009	Collected: 06/14/19 03:48	Received: 06/18/19 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		06/27/19 21:50	7439-92-1	
Sample: TLFB		Lab ID: 7094199010	Collected: 06/14/19 03:48	Received: 06/18/19 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		06/27/19 21:53	7439-92-1	
Sample: T408A		Lab ID: 7094199011	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 21:56	7439-92-1	
Sample: T408B		Lab ID: 7094199012	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 21:59	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)

Pace Project No.: 7094199

Sample: T408C		Lab ID: 7094199013	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 22:03	7439-92-1	
Sample: T408D		Lab ID: 7094199014	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 22:06	7439-92-1	
Sample: T408E		Lab ID: 7094199015	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 22:15	7439-92-1	
Sample: T408F		Lab ID: 7094199016	Collected: 06/14/19 03:53	Received: 06/18/19 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		06/27/19 22:24	7439-92-1	
Sample: T116A		Lab ID: 7094199017	Collected: 06/14/19 04:00	Received: 06/18/19 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		06/27/19 22:27	7439-92-1	
Sample: T116B		Lab ID: 7094199018	Collected: 06/14/19 04:00	Received: 06/18/19 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		06/27/19 22:30	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)  
Pace Project No.: 7094199

Sample: T126A		Lab ID: 7094199019	Collected: 06/14/19 04:13	Received: 06/18/19 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		06/27/19 22:33	7439-92-1	
Sample: T126B		Lab ID: 7094199020	Collected: 06/14/19 04:13	Received: 06/18/19 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		06/27/19 22:36	7439-92-1	
Sample: TGS		Lab ID: 7094199021	Collected: 06/14/19 03:58	Received: 06/18/19 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		06/27/19 22:39	7439-92-1	
Sample: TNA		Lab ID: 7094199022	Collected: 06/14/19 04:06	Received: 06/18/19 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		06/27/19 22:42	7439-92-1	
Sample: TNB		Lab ID: 7094199023	Collected: 06/14/19 04:06	Received: 06/18/19 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	17.6	ug/L	1.0	1		06/27/19 22:45	7439-92-1	
Sample: TNC		Lab ID: 7094199024	Collected: 06/14/19 04:06	Received: 06/18/19 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		06/27/19 23:00	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)

Pace Project No.: 7094199

Sample: TNF		Lab ID: 7094199025	Collected: 06/14/19 04:06	Received: 06/18/19 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		06/27/19 23:09	7439-92-1	
Sample: TLS		Lab ID: 7094199026	Collected: 06/14/19 04:03	Received: 06/18/19 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		06/27/19 23:12	7439-92-1	
Sample: TMO		Lab ID: 7094199027	Collected: 06/14/19 04:09	Received: 06/18/19 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		06/27/19 23:15	7439-92-1	
Sample: TEA		Lab ID: 7094199028	Collected: 06/14/19 04:09	Received: 06/18/19 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		06/27/19 23:18	7439-92-1	
Sample: TEB		Lab ID: 7094199029	Collected: 06/14/19 04:09	Received: 06/18/19 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		06/27/19 23:21	7439-92-1	
Sample: T203A		Lab ID: 7094199030	Collected: 06/14/19 04:18	Received: 06/18/19 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		06/27/19 23:24	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)

Pace Project No.: 7094199

Sample: T203B	Lab ID: 7094199031	Collected: 06/14/19 04:18	Received: 06/18/19 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		06/27/19 23:27	7439-92-1	
Sample: T212	Lab ID: 7094199032	Collected: 06/14/19 04:20	Received: 06/18/19 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		06/27/19 23:36	7439-92-1	
Sample: T213C	Lab ID: 7094199033	Collected: 06/14/19 04:22	Received: 06/18/19 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		06/27/19 23:39	7439-92-1	
Sample: T213D	Lab ID: 7094199034	Collected: 06/14/19 04:22	Received: 06/18/19 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		06/27/19 23:42	7439-92-1	
Sample: T222A	Lab ID: 7094199035	Collected: 06/14/19 04:25	Received: 06/18/19 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		06/27/19 23:52	7439-92-1	
Sample: T222B	Lab ID: 7094199036	Collected: 06/14/19 04:25	Received: 06/18/19 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		06/27/19 23:55	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)  
Pace Project No.: 7094199

Sample: T301A		Lab ID: 7094199037	Collected: 06/14/19 04:33	Received: 06/18/19 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		06/27/19 23:58	7439-92-1	
Sample: T301B		Lab ID: 7094199038	Collected: 06/14/19 04:33	Received: 06/18/19 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		06/28/19 00:01	7439-92-1	
Sample: T311A		Lab ID: 7094199039	Collected: 06/14/19 04:30	Received: 06/18/19 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		06/28/19 00:04	7439-92-1	
Sample: T311B		Lab ID: 7094199040	Collected: 06/14/19 04:30	Received: 06/18/19 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		06/28/19 00:13	7439-92-1	
Sample: T311C		Lab ID: 7094199041	Collected: 06/14/19 04:30	Received: 06/18/19 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		06/28/19 00:16	7439-92-1	
Sample: T311D		Lab ID: 7094199042	Collected: 06/14/19 04:30	Received: 06/18/19 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		06/28/19 00:19	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TOHICKON)

Pace Project No.: 7094199

<b>Sample: T321</b>		<b>Lab ID: 7094199043</b>		Collected: 06/14/19 04:28	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	1.1	ug/L	1.0	1		06/28/19 00:22	7439-92-1	
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<b>Sample: T222</b>		<b>Lab ID: 7094199044</b>		Collected: 06/14/19 04:25	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	1.3	ug/L	1.0	1		06/28/19 00:31	7439-92-1	
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