

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
Barclay Elementary School
2015 Palomino Road
Warrington, PA 18976
Bucks County, Pennsylvania**

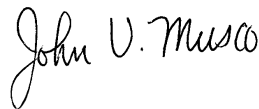
Dear Mr. Nickerson:

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 4_6-8-19_Brcly_Tit_MC\Barclay_Lead_Sampling_Memo.docx

P.O. Box 1569 Doylestown, PA 18901-0219 T: 215.491.6500 F: 215.491.6501 www.langan.com
Shipping Address: Stone Manor Corporate Center 2700 Kelly Road, Suite 200 Warrington, PA 18976

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June 20, 2019

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

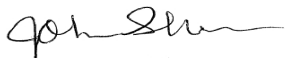
RE: Project: CENTRAL BUCKS SCHOOL (BARCLAY)
Pace Project No.: 7093841

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 (BARCLAY)

Pace Project No.: 7093841

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 (BARCLAY)
Pace Project No.: 7093841

Sample: B401	Lab ID: 7093841001	Collected: 06/08/19 07:03	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		06/19/19 17:07	7439-92-1	
Sample: B402	Lab ID: 7093841002	Collected: 06/08/19 07:04	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		06/19/19 17:16	7439-92-1	
Sample: B403	Lab ID: 7093841003	Collected: 06/08/19 07:04	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		06/19/19 17:19	7439-92-1	
Sample: B404	Lab ID: 7093841004	Collected: 06/08/19 07:05	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		06/19/19 17:22	7439-92-1	
Sample: B405	Lab ID: 7093841005	Collected: 06/08/19 07:06	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		06/19/19 17:25	7439-92-1	
Sample: B406	Lab ID: 7093841006	Collected: 06/08/19 07:07	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		06/19/19 17:28	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BARCLAY)
Pace Project No.: 7093841

Sample: B407	Lab ID: 7093841007	Collected: 06/08/19 07:08	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	1.7	ug/L	1.0	1		06/19/19 17:37	7439-92-1	
Sample: B408	Lab ID: 7093841008	Collected: 06/08/19 07:08	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	1.9	ug/L	1.0	1		06/19/19 17:40	7439-92-1	
Sample: B410	Lab ID: 7093841009	Collected: 06/08/19 07:10	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	1.7	ug/L	1.0	1		06/19/19 17:43	7439-92-1	
Sample: B411	Lab ID: 7093841010	Collected: 06/08/19 07:11	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		06/19/19 17:46	7439-92-1	
Sample: B412	Lab ID: 7093841011	Collected: 06/08/19 07:11	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	1.4	ug/L	1.0	1		06/19/19 17:49	7439-92-1	
Sample: B413	Lab ID: 7093841012	Collected: 06/08/19 07:12	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	3.4	ug/L	1.0	1		06/19/19 17:58	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BARCLAY)

Pace Project No.: 7093841

Sample: B414	Lab ID: 7093841013	Collected: 06/08/19 07:12	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	2.7	ug/L	1.0	1		06/19/19 18:01	7439-92-1	
Sample: B415	Lab ID: 7093841014	Collected: 06/08/19 07:13	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	1.3	ug/L	1.0	1		06/19/19 18:05	7439-92-1	
Sample: B416	Lab ID: 7093841015	Collected: 06/08/19 07:13	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	1.3	ug/L	1.0	1		06/19/19 18:14	7439-92-1	
Sample: B417	Lab ID: 7093841016	Collected: 06/08/19 07:14	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	4.2	ug/L	1.0	1		06/19/19 18:17	7439-92-1	
Sample: B418	Lab ID: 7093841017	Collected: 06/08/19 07:15	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	1.5	ug/L	1.0	1		06/19/19 18:20	7439-92-1	
Sample: B420	Lab ID: 7093841018	Collected: 06/08/19 07:16	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	1.1	ug/L	1.0	1		06/19/19 18:23	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BARCLAY)
Pace Project No.: 7093841

Sample: B421	Lab ID: 7093841019	Collected: 06/08/19 07:16	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		06/19/19 18:26	7439-92-1	
Sample: B422	Lab ID: 7093841020	Collected: 06/08/19 07:18	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	1.7	ug/L	1.0	1		06/19/19 18:29	7439-92-1	
Sample: B423	Lab ID: 7093841021	Collected: 06/08/19 07:19	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		06/19/19 18:38	7439-92-1	
Sample: B425	Lab ID: 7093841022	Collected: 06/08/19 07:20	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		06/19/19 18:53	7439-92-1	
Sample: B427	Lab ID: 7093841023	Collected: 06/08/19 07:20	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		06/19/19 18:56	7439-92-1	
Sample: B428	Lab ID: 7093841024	Collected: 06/08/19 07:21	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		06/19/19 18:59	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BARCLAY)
Pace Project No.: 7093841

Sample: B429	Lab ID: 7093841025	Collected: 06/08/19 07:22	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		06/19/19 19:02	7439-92-1	
Sample: B430	Lab ID: 7093841026	Collected: 06/08/19 07:22	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		06/19/19 19:05	7439-92-1	
Sample: B431	Lab ID: 7093841027	Collected: 06/08/19 07:23	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		06/19/19 19:08	7439-92-1	
Sample: B432	Lab ID: 7093841028	Collected: 06/08/19 07:24	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		06/19/19 19:11	7439-92-1	
Sample: B105A	Lab ID: 7093841029	Collected: 06/08/19 07:00	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	4.3	ug/L	1.0	1		06/19/19 19:14	7439-92-1	
Sample: B104A	Lab ID: 7093841030	Collected: 06/08/19 06:58	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		06/19/19 19:17	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BARCLAY)

Pace Project No.: 7093841

Sample: B104B	Lab ID: 7093841031	Collected: 06/08/19 06:59	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		06/19/19 19:26	7439-92-1	
Sample: BCF	Lab ID: 7093841032	Collected: 06/08/19 06:56	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		06/19/19 19:35	7439-92-1	
Sample: B101A	Lab ID: 7093841033	Collected: 06/08/19 06:55	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		06/19/19 19:38	7439-92-1	
Sample: B201	Lab ID: 7093841034	Collected: 06/08/19 06:54	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		06/19/19 19:41	7439-92-1	
Sample: B202	Lab ID: 7093841035	Collected: 06/08/19 06:53	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	2.7	ug/L	1.0	1		06/19/19 19:44	7439-92-1	
Sample: B301	Lab ID: 7093841036	Collected: 06/08/19 06:51	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		06/19/19 19:47	7439-92-1	

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