

Technical Excellence Practical Experience Client Responsiveness

August 4, 2021

Thomas M. Hanna, P.E., LEED AP Capital Projects Manager Central Bucks School District 320 West Swamp Road Doylestown, PA 18901

Re: Lead in Drinking Water Sample Collection and Reporting Central Bucks West High School 375 W Court Street Doylestown, PA 18901

Dear Mr. Hanna:

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. bottle fillers, fountains, sink faucets, etc.) on July 2, 2021 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 location:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Kitchen 1-bowl sink at steamer	F141B_070221	15.1 ug/L

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

Sincerely, Langan Engineering & Environmental Services, Inc.

John U. Musco

John V. Musco Associate

Enclosure cc: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400

\langan.com\data\DYL\data4\200130403\Project Data\Record Data\Reports\Day 6_7-2-2021_West_West Stad_Lenape_Doyle_Holicong\1st_West High School\West HS_Lead_Sampling_Report_2021.docx

2700 Kelly Road, Suite 200 Warrington, PA 18976 T: 215.491.6500 F: 215.491.6501 www.langan.com

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Pace Analytical Services, LLC 575 Broad Hollow Road Melville, NY 11747 (631)694-3040

July 15, 2021

Bill Lambing Langan Engineering 2700 Kelly Road Suite 200 Warrington, PA 18976

RE: Project: CENTRAL BUCKS (CB WEST) Pace Project No.: 70179820

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Melville

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

Sincerely,

Dophia Sparkes

Sophia Sparkes sophia.sparkes@pacelabs.com (631)694-3040 Project Manager

Enclosures





CERTIFICATIONS

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: NY158 New York Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: F129A_070221	Lab ID: 701	79820001	Collected: 07/02/2	1 05:53	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:2	24 7439-92-1	
Sample: F129B_070221	Lab ID: 701	79820002	Collected: 07/02/2	1 05:54	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:2	27 7439-92-1	
Sample: F115_070221	Lab ID: 701	79820003	Collected: 07/02/2	1 07:05	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:2	28 7439-92-1	
Sample: F139B_070221	Lab ID: 701	79820004	Collected: 07/02/2	1 06:11	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:2	29 7439-92-1	
Sample: F139C_070221	Lab ID: 701	79820005	Collected: 07/02/2	1 05:59	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:3	80 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: F141A_070221	Lab ID: 701	79820006	Collected: 07/02/2	21 06:06	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica							
Lead	1.2	ug/L	1.0	1		07/14/21 16:3	31 7439-92-1	
Sample: F141B_070221	Lab ID: 701	79820007	Collected: 07/02/2	21 06:07	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica							
Lead	15.1	ug/L	1.0	1		07/14/21 16:3	34 7439-92-1	
Sample: F141C_070221	Lab ID: 701	79820008	Collected: 07/02/2	21 06:08	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:3	35 7439-92-1	
Sample: F139A_070221	Lab ID: 701	79820009	Collected: 07/02/2	21 06:12	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:3	36 7439-92-1	
Sample: E112_070221	Lab ID: 701	79820010	Collected: 07/02/2	21 06:16	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica							
Lead	1.7	ug/L	1.0	1		07/14/21 16:3	37 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: E112A_070221	Lab ID: 701	79820011	Collected: 07/02/2	1 06:17	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	1.7	ug/L	1.0	1		07/14/21 16:3	38 7439-92-1	
Sample: E110A_070221	Lab ID: 701	79820012	Collected: 07/02/2	1 06:19	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	41 7439-92-1	
Sample: E110B_070221	Lab ID: 701	79820013	Collected: 07/02/2	1 06:19	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	42 7439-92-1	
Sample: E110_070221	Lab ID: 701	79820014	Collected: 07/02/2	1 06:22	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	43 7439-92-1	
Sample: F102A_070221	Lab ID: 701	79820015	Collected: 07/02/2	1 07:07	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	46 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: F102B_070221	Lab ID: 7017	9820016	Collected: 07/02/2	1 07:07	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytical							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	17 7439-92-1	
Sample: G102A_070221	Lab ID: 7017	9820017	Collected: 07/02/2	1 07:09	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytical							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	48 7439-92-1	
Sample: G102B_070221	Lab ID: 7017	9820018	Collected: 07/02/2	1 07:09	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytical							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:4	19 7439-92-1	
Sample: G105_070221	Lab ID: 7017	79820019	Collected: 07/02/2	1 07:12	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytical							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:5	50 7439-92-1	
Sample: E100F_070221	Lab ID: 7017	9820020	Collected: 07/02/2	1 06:25	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytical							
Lead	<1.0	ug/L	1.0	1		07/14/21 16:5	51 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Sample: E106B_070221	Lab ID: 701	79820021	Collected: 07/02/2	21 06:27	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica								
Lead	<1.0	ug/L	1.0	1		07/14/21 16:5	54 7439-92-1		
Sample: E108_070221	Lab ID: 701	79820022	Collected: 07/02/2	21 06:30	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica								
Lead	<1.0	ug/L	1.0	1		07/14/21 16:5	59 7439-92-1		
Sample: D117F_070221	Lab ID: 701	79820023	Collected: 07/02/2	21 06:31	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica								
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0	00 7439-92-1		
Sample: D102F_070221	Lab ID: 701	79820024	Collected: 07/02/2	21 06:37	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica								
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0)1 7439-92-1		
Sample: D102B_070221	Lab ID: 701	79820025	Collected: 07/02/2	21 06:35	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		ical Method: EPA 200.8 Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:(



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: A104_070221	Lab ID: 70	179820026	Collected: 07/02/2	21 06:34	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0	03 7439-92-1	
Sample: A114_070221	Lab ID: 70	179820027	Collected: 07/02/2	21 06:41	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0	04 7439-92-1	
Sample: C117F_070221	Lab ID: 70	179820028	Collected: 07/02/2	21 06:38	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0)5 7439-92-1	
Sample: C103F_070221	Lab ID: 70	179820029	Collected: 07/02/2	21 06:43	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:0	06 7439-92-1	
Sample: C104A_070221	Lab ID: 70	179820030	Collected: 07/02/2	21 06:45	Received: (07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	3.0	ug/L	1.0	1		07/14/21 17:0)7 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: C104B_070221	Lab ID: 701	79820031	Collected: 07/02/2	1 06:46	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:1	10 7439-92-1	
Sample: C106A_070221	Lab ID: 701	79820032	Collected: 07/02/2	1 06:48	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	1.1	ug/L	1.0	1		07/14/21 17:1	13 7439-92-1	
Sample: C106B_070221	Lab ID: 701	79820033	Collected: 07/02/2	1 06:48	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:1	14 7439-92-1	
Sample: C106C_070221	Lab ID: 701	79820034	Collected: 07/02/2	1 06:49	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:1	15 7439-92-1	
Sample: C106D_070221	Lab ID: 701	79820035	Collected: 07/02/2	1 06:49	Received:	07/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	2.7	ug/L	1.0	1		07/14/21 17:1	16 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: C106E_070221	Lab ID: 701	79820036	Collected: 07/02/2	1 06:50	Received: 0	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	3.6	ug/L	1.0	1		07/14/21 17:1	17 7439-92-1	
Sample: C106F_070221	Lab ID: 701	79820037	Collected: 07/02/2	1 06:50	Received: 0	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:1	18 7439-92-1	
Sample: B104_070221	Lab ID: 701	79820038	Collected: 07/02/2	1 06:53	Received: 0	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:1	19 7439-92-1	
Sample: B102_070221	Lab ID: 701	79820039	Collected: 07/02/2	1 06:53	Received: 0	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:2	22 7439-92-1	
Sample: A124F_070221	Lab ID: 701	79820040	Collected: 07/02/2	1 06:54	Received: 0	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:2	23 7439-92-1	



Project: CENTRAL BUCKS (CB WEST)

Sample: B112F_070221	Lab ID: 701	79820041	Collected: 0	7/02/2	06:58	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica									
Lead	<1.0	ug/L		1.0	1		07/14/21 17:2	26 7439-92-1		
Sample: C139_070221	Lab ID: 701	79820042	Collected: 0)7/02/2 ²	06:59	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica									
Lead	<1.0	ug/L		1.0	1		07/14/21 17:2	29 7439-92-1		
Sample: C130_070221	Lab ID: 701	79820043	Collected: 0	7/02/2	07:00	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8 Pace Analytical Services - Melville								
Lead	5.4	ug/L		1.0	1		07/14/21 17:3	30 7439-92-1		
Sample: D139F_070221	Lab ID: 701	79820044	Collected: 0)7/02/2 [^]	07:01	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report L	.imit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica									
Lead	<1.0	ug/L		1.0	1		07/14/21 17:3	31 7439-92-1		
Sample: A204_070221	Lab ID: 701	79820045	Collected: 0)7/02/2 ²	07:16	Received:	07/06/21 19:20	Matrix: Drinking	Water	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Metl Pace Analytica									
	•	ug/L						34 7439-92-1		



Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820								
Sample: A224_070221	Lab ID: 701	79820046	Collected: 07/02/2	21 07:18	Received: 07	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 20	00.8					
	Pace Analytica	I Services -	Melville					
Lead	<1.0	ug/L	1.0	1		07/14/21 17:3	5 7439-92-1	
Sample: B212_070221	Lab ID: 701	79820047	Collected: 07/02/2	21 07:19	Received: 07	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:3	6 7439-92-1	
Sample: H103_070221	Lab ID: 701	79820048	Collected: 07/02/2	21 07:29	Received: 07	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	<1.0	ug/L	1.0	1		07/14/21 17:3	7 7439-92-1	
Sample: H101_070221	Lab ID: 701	79820049	Collected: 07/02/2	21 07:28	Received: 07	7/06/21 19:20	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica							
Lead	5.2	ug/L	1.0	1		07/14/21 17:3	8 7439-92-1	



QC Batch: 2176	33		Analysis Met	thod:	EPA 200.8			
QC Batch Method: EPA	200.8		Analysis Des	scription:	200.8 MET No F	Prep Drinking W	ater	
			Laboratory:		Pace Analytical			
Associated Lab Samples:	70179820	001, 70179820002, 008, 70179820009, 015, 70179820016,	70179820010, 7	0179820011,	70179820012, 7	0179820013, 7		
METHOD BLANK: 10968	33		Matrix:	Water				
Associated Lab Samples:	70179820	001, 70179820002, 008, 70179820009, 015, 70179820016,	70179820010, 7	0179820011,	70179820012, 7	0179820013, 7		
			Blank	Reporting				
Parameter		Units	Result	Limit	Analyzed	Qualifi	ers	
Lead		ug/L	<1.0	1	.0 07/14/21 16	22		
LABORATORY CONTROL	SAMPLE:	1096834						
Parameter		Units	Spike Conc. I	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
Lead		ug/L	50	49.0	98	85-115		
MATRIX SPIKE SAMPLE:		1096836						
Parameter		Units	70179820001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifier
Lead		ug/L	<1	.0 50	48.2	96	5 70-130	
MATRIX SPIKE SAMPLE:		1096838						
Parameter		Units	70179820011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifier
Lead		ug/L	1	.7 50	56.3	109	70-130	
SAMPLE DUPLICATE: 10	96835							
Parameter		Units	70179820001 Result	Dup Result	RPD	Qualifiers		
Lead		ug/L	<1.0	<1	.0			
SAMPLE DUPLICATE: 10	96837							
Parameter		Units	70179820011 Result	Dup Result	RPD	Qualifiers		
		ug/L	1.7		.7	0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



	CENTRAL BUCKS 70179820	S (CB WEST)						
QC Batch:	217634		Analysis Met	nod:	EPA 200.8			
QC Batch Method:	EPA 200.8		Analysis Des		200.8 MET No P	rep Drinking W	ater	
			Laboratory:	•	Pace Analytical S			
Associated Lab Samp	70179820	021, 70179820022, 028, 70179820029, 035, 70179820036,	70179820030, 7	0179820031,	70179820032, 7	0179820033, 7		
METHOD BLANK: 1	1096839		Matrix:	Water				
Associated Lab Samp	70179820	021, 70179820022, 028, 70179820029, 035, 70179820036,	70179820030, 7	0179820031,	70179820032, 7	0179820033, 7		
_			Blank	Reporting		o		
Parame	eter	Units	Result	Limit	Analyzed	Qualifie	ers	
Lead		ug/L	<1.0	1	.0 07/14/21 16:	52		
LABORATORY CONT	TROL SAMPLE:	1096840	Spike	LCS	LCS	% Rec		
Parame	eter	Units	•	Result	% Rec	Limits	Qualifiers	
Lead		ug/L	50	49.3	99	85-115		
MATRIX SPIKE SAM	PLE:	1096842						
Parame	eter	Units	70179820021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead		ug/L	<1	.0 50	57.0	113	70-130	
MATRIX SPIKE SAM	PLE:	1096844						
Parame	eter	Units	70179820031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead		ug/L	<1	.0 50	56.7	112	70-130	
SAMPLE DUPLICATE	E: 1096841							
Parame	eter	Units	70179820021 Result	Dup Result	RPD	Qualifiers		
Lead		ug/L	<1.0	<1	.0			
SAMPLE DUPLICATE	E: 1096843							
Parame	eter	Units	70179820031 Result	Dup Result	RPD	Qualifiers		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Pace Project No.:	CENTRAL BUCK 70179820	S (CB WEST)						
QC Batch:	217635		Analysis Me	thod:	EPA 200.8			
QC Batch Method:	EPA 200.8		Analysis De	scription:	200.8 MET No P	rep Drinking W	ater	
			Laboratory:		Pace Analytical S	Services - Melvi	lle	
Associated Lab San		0041, 70179820042, 0048, 70179820049	70179820043,	70179820044	, 70179820045, 7	0179820046, 7	0179820047,	
METHOD BLANK:	1096845		Matrix	: Water				
Associated Lab San		0041, 70179820042, 0048, 70179820049	70179820043,	70179820044	, 70179820045, 7	0179820046, 7	0179820047,	
			Blank	Reporting				
Paran	neter	Units	Result	Limit	Analyzed	Qualifie	ers	
Lead		ug/L	<1.0		07/14/21 17:	24		
LABORATORY CON	ITROL SAMPLE:	1096846						
Paran	neter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
Lead		ug/L	50	49.3	99	85-115		
MATRIX SPIKE SAM	MPLE:	1096848						
			7017982004	1 Spike	MS	MS	% Rec	
Paran	neter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead		ug/L	<	1.0 50	62.8	126	70-130	
SAMPLE DUPLICA	ГЕ: 1096847							
			70179820041	Dup				
Paran	neter	Units	Result	Result	RPD	Qualifiers		
1 8181								

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179820001	F129A_070221	EPA 200.8	217633		
70179820002	F129B_070221	EPA 200.8	217633		
70179820003	F115_070221	EPA 200.8	217633		
70179820004	F139B_070221	EPA 200.8	217633		
0179820005	F139C_070221	EPA 200.8	217633		
0179820006	F141A_070221	EPA 200.8	217633		
0179820007	F141B_070221	EPA 200.8	217633		
0179820008	F141C_070221	EPA 200.8	217633		
0179820009	F139A_070221	EPA 200.8	217633		
0179820010	E112_070221	EPA 200.8	217633		
0179820011	E112A_070221	EPA 200.8	217633		
0179820012	E110A_070221	EPA 200.8	217633		
0179820013	E110B_070221	EPA 200.8	217633		
0179820014	E110_070221	EPA 200.8	217633		
0179820015	F102A_070221	EPA 200.8	217633		
0179820016	F102B_070221	EPA 200.8	217633		
0179820017	G102A_070221	EPA 200.8	217633		
0179820018	G102B_070221	EPA 200.8	217633		
0179820019	G105 070221	EPA 200.8	217633		
0179820020	E100F_070221	EPA 200.8	217633		
0179820021	E106B_070221	EPA 200.8	217634		
0179820022	E108_070221	EPA 200.8	217634		
0179820023	D117F_070221	EPA 200.8	217634		
0179820024	D102F_070221	EPA 200.8	217634		
0179820025	D102B_070221	EPA 200.8	217634		
0179820026	A104_070221	EPA 200.8	217634		
0179820027	A114_070221	EPA 200.8	217634		
0179820028	C117F_070221	EPA 200.8	217634		
0179820029	C103F_070221	EPA 200.8	217634		
0179820030	C104A_070221	EPA 200.8	217634		
0179820031	C104B_070221	EPA 200.8	217634		
0179820032	C106A_070221	EPA 200.8	217634		
0179820033	C106B_070221	EPA 200.8	217634		
0179820034	C106C_070221	EPA 200.8	217634		
0179820035	C106D_070221	EPA 200.8	217634		
0179820036	C106E_070221	EPA 200.8	217634		
0179820030	C106F_070221	EPA 200.8	217634		
0179820038	B104 070221	EPA 200.8	217634		
0179820038	B104_070221 B102_070221	EPA 200.8	217634		
0179820039	A124F_070221	EPA 200.8	217634		
0179820041	B112F_070221	EPA 200.8	217635		
0179820042	C139_070221	EPA 200.8	217635		
0179820043	C130_070221	EPA 200.8	217635		
0179820044	D139F_070221	EPA 200.8	217635		
0179820045	A204_070221	EPA 200.8	217635		
0179820046	A224_070221	EPA 200.8	217635		
0179820047	B212_070221	EPA 200.8	217635		
0179820048	H103 070221	EPA 200.8	217635		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:CENTRAL BUCKS (CB WEST)Pace Project No.:70179820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179820049	H101_070221	EPA 200.8	217635		

Pace Analytical

CHAIN-OF-CUSTOD The Chain-of-Custody is a LEGA



Section	Ą	Section B								ctior				/01	19	020	,															
Require	Client Information:	Required Pro	oject	Info	rmation			Invo	ice		_	_	-		_	_	_		_	_			_	_		I	Pa	age :	1	1	Of_	5
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	on, PA 18976						_		_	Addr	_		2700 1	Celly F						_			_	_				Regul	atory A	Agency	2	
Email:	blambing@langan.com	Purchase Or		_	200130403	_				Pace					_		-		MSA		_					_	_					
Phone:	215-491-6500 Fax 2015-491-6501	Project Name			tral Bucks S	chool Dis	trict (CB W	est)	_	<u></u>		-	lanag		sop	hia s	parke	es@p	acela	abs.com	п,		_		-			State	e / Loc	ation		
Request	ed Due Date: Standard Turn Around (5 day)	Project #: 200	01304	403		_	_	_	_	Pace	e Pro	ofile #	79	183	_	-	_		-	-		- A - 1	-	Filter	ad its	//815	_		PA		-	
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Ë			MATRIX	SAMPLE	DATE	TIME	DATE	TIME	SAMPLE	# OF CONTAINERS	Unpreser	H2SO4	HN03	NaOH	Na2S203	Methanol	Other	◄	200.7 Metals (PB)									Res				
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2	F129B_070221		ВW	G	7/2/2021	554	7/2/2021	554	_	1			x	+					х	_	+	-			+	+	\vdash	-	\vdash			
3	F115_070221		DW	G	7/2/2021	705	7/2/2021	705	_	1			x	_					х			_			-		\square	_				
4	F139B_070221		DW	G	7/2/2021	611	7/2/2021	611		1			x	_					х	_	_			_	_	-	\square	_				
5	F139C_070221		DW	G	7/2/2021	559	7/2/2021	559		1			x						х			_			-		\square	_				
6	F141A_070221		DW	G	7/2/2021	606	7/2/2021	606	_	1			х			-			х			-		_	_		\square					
7	F141B_070221		DW	G	7/2/2021	607	7/2/2021	607		1			x			_			х		_	-		_		_	\square					
8	F141C_070221		DW	G	7/2/2021	608	7/2/2021	608		1			x	_	-	-			х	_	-	-		_		-	\vdash					
9	F139A_070221		DW	G	7/2/2021	612	7/2/2021	612		1			x	_	-				х			-		_	-	-	\downarrow					
10	E112_070221		DW	G	7/2/2021	616	7/2/2021	616		1			x						х	_				_	_	+-	++	4	\vdash		_	
11	E112A_070221		DW	G	7/2/2021	617	7/2/2021	617		1			x	_	-	_			x		_		\square	_	_		++	_				
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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately,

Section		Section B Required Pro	niect In	formation			Invoi	Secti ce Inf		C ation:														Pi	age :	2	Of	5	
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E 2		1.5	Ř					SAMPLE TEMP AT (Unpreserved H2SO4	HN03		NaOH	thar 50	آد ا	Analyses Test	200,7 Metals (PB)								Residual Chlorine (Y/N)				
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18	G102B_070221		DW	G 7/2/202	1 709	7/2/2021	709	+	1	-	X			-	-		X				+-		+	┼┼	<u></u>				
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20	E100F_070221		DW	G 7/2/202	1 625	7/2/2021	625	+	1	-	X	-			-		X	-	+	_	+		+-	+	-				_
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22	E108_070221		DW	G 7/2/202	1 630	7/2/2021	630	_	1	_	x	-	_	_	-		X	_		_		4		+	_				_
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Page 20 of 24					SAMP	LER NAME	AND SIGNA	TURE	Ľ.					33				1							~	5			
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of 24						SIGNATURE	of SAMPLE	R: /	3	11	(and	an	l	_	_	_		mbing DATE S	Signed			7/6/20	021		TEMP	Received Ice (Y/N)	Custod Sealed Cooler	(Y/N) Sample	(N/N)
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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately,

Section		Section B Required Pr	ninet	Infor	mation:			Invoid	Secti Se Inf		tion														ſ	Pa	ge :	3	Of	5	1
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	on, PA 18976		_						_	dres		2700	-		_		-							-		F	Regula	atory Agen	cy		1
	blambing@langan.com	Purchase Or	der #:	-	200130403-	400-001			1.0	ace Q				_		gan-P	ace	MSA							-				-		1
Phone:	215-491-6500 Fax 2015-491-6501	Project Name					trict (CB W	est)	Pa	ace P	roject	Manag	er:				_		bs.con	n,			100	1 2	871		State	/ Location			1
-	ed Due Dale: Standard Turn Around (5 day)	Project #: 20		_				,	Pa	ace P	rofile #	<i>t</i> : 7	983				01											PA			1
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	MATRIX Drinking Wi	CODE aler DW	d codes to left)	:=COMP)		COLLI	ECTED		N		T	Pres	erva	tives	3		N/A														
	SAMPLE ID One Character per box.	WT	(see valic	(G=GRA	STAF	रा	EN	D									es Test	(PB)									Chlorine (Y/N)				
ITEM #	(A-Z, 0-9 /, -) Air Sample Ids must be unique Tissue	AR OT TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME		Unpreserved	H2SO4	HNO3	HCI	Na2S203	Methanol	Other	Analyses	200.7 Metals (PB)									Residual Ch				
25	D102B 070221		DW	G	7/2/2021	635	7/2/2021	635	Ţ	1		x						x													
26	A104_070221		DW		7/2/2021	634	7/2/2021	634		1		x						x						T	T						1
20	A114_070221		DW		7/2/2021	641	7/2/2021	641	1	1		x						x													1
28	C117F_070221		1		7/2/2021	638	7/2/2021	638	1	1		x		T				x							П						
29	C103F 070221		DW		7/2/2021	643	7/2/2021	643	1	1		x						x										1			
30	C104A_070221		DW	G	7/2/2021	645	7/2/2021	645		1		x						x													
31	C104B_070221		DW	G	7/2/2021	646	7/2/2021	646		1		x						x													
32	C106A_070221		DW	G	7/2/2021	648	7/2/2021	648		1		x	_					x													
33	C106B_070221		DW	G	7/2/2021	648	7/2/2021	648		1		x						x									_				4
34	C106C_070221		DW	G	7/2/2021	649	7/2/2021	649		1		x	_		-			x	_	-		_	_				_				_
35	C106D_070221		DW	G	7/2/2021	649	7/2/2021	649		1	-	x	_	+	_			x	-	-		-	-	-		_	-				-
36	C106E_070221		DW		7/2/2021	650	7/2/2021	650	÷	1		X						X					TE		TIME			CAMPLE	CONDITIO	NC	d
-	ADDITIONAL COMMENTS		REL		ISHED BY I	2 1		DATE		TIN	10	10	2	AG	1.	ED BY	TAFI				-			-	TIME	_	4.8	UANFLE		1	-
			D	15	<u>n</u>	On	-	7/6/2021	2	7	1.	M	1	1	1	471	th	,			_	- 1	2021	1	62	//			<u> </u>		-
			h	e	A	Un	on	3/1/2	7	18	20	1.	4	r	G	3	6	-				7/6	121	100	125	1.1					-
Pag		N		0	12	1		1910	1	4			1-			and a	\$/						- (1							
Φ						SAMPLE	ER NAME A	ND SIGNAT	URE						, F					14							0	5			
21 of 24								of SAMPLE		Zi	ÌÌ	0	lon	l			В		nbing ATE \$	Signed	t:s		7/6	6/2021	1	_	TEMP In C	Received I Ice (Y/N)	Custody Sealed Cooler	(Y/N) Samples Intact (V/N)	11111

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section		Section B	·	· · · · · · · · · · · · · · · · · · ·				Sectio		la si																06	
-		Required Pro Report To:					Invoid	-1401	entior	_	Bill La	mhine		_		_		_			-		ГР	age :	4	Of	5
Compan Address		Copy To:	Bill Lan	libing				- 6		iy Nam				neerin	a												
	on, PA 18976							_	dress		2700 1					_							10.000	Regu	atory Age	ICV	-
-		Purchase Ord	er #:	200130403	3-400-001				ce Qu			tony i		Lang	_	ace I	ISA										
Phone:		Project Name		entral Bucks S		trict (CB W	est)			oject N	lanaq	er:				_	acelabs	.com.					V	Stat	e / Locatio	n	
10.000 CAPACI	ed Due Date: Standard Turn Around (5 day)	Project #: 200			5011001 010					ofile #		983				GF									PA		
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	MATRIX Drinking Wa	CODE ler DW	odes to left) C=COMP)		COLL	ECTED				1	Pres	ervat	tives			Y/N											
	Weter Waste Walte Product Soli/Solid One Character per box.	WT P SL OL WP	(see valid c (G=GRAB	STA	RT	EN		NERS								es Test	s (PB)							Chlorine (Y/N)			
ITEM #	(A-Z, 0-9 /, -) Air Other Sample Ids must be unique Tissue	AR OT TS	MATRIX CODE SAMPLE TYPE	DATE	TIME	DATE	TIME	# OF CONTAINERS	Unpreserved	H2SO4	HN03	NaOH	Na2S203	Methanol	Other	Analyses	200 7 Metals (PB)							Residual CF			
37	C106F_070221		DW G	7/2/2021	650	7/2/2021	650	1			x						x										
38	B104_070221		DW G	7/2/2021	653	7/2/2021	653	1			x						x										
39	B102_070221		DW G	7/2/2021	653	7/2/2021	653	1			x						x										
40	A124F_070221		DW G	5 7/2/2021	654	7/2/2021	654	1			x						x										
41	B112F_070221		DW G	7/2/2021	658	7/2/2021	658	1			x						x							_			
42	C139_070221		DW G	7/2/2021	659	7/2/2021	659	1			x						x										
43	C130_070221		DW G	3 7/2/2021	700	7/2/2021	700	1			x	_					x										
44	D139F_070221		DW G	5 7/2/2021	701	7/2/2021	701	1			x	_					x										
45	A204_070221		DW G	7/2/2021	716	7/2/2021	716	1			x	_	_				x			_							
46	A224_070221		DW G	5 7/2/2021	718	7/2/2021	718	1	-		x						x										
47	B212_070221		DW G	G 7/2/2021	719	7/2/2021	719	1	-		x	_	-				×	_		-	\vdash	-		_			
48	H103_070221	1		7/2/2021	729	7/2/2021	729	1			x	1					X				DATE		TIME		SAMDIE	CONDITION	16
	ADDITIONAL COMMENTS		RELING	DUISHED BY		UN V	DATE		TIM	-	n	k	ACC	EPTE	K	V	ILIATIO	~	<u>s 110</u>		- I had	i 1			JAMPLE		
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Page 2					esto-anoniour		ND SIGNAT					27				X						141		U	чо		
22 of 24]		of SAMPLEF		5	10	La	~		_		в	ll Lamb DA	ing TE Sig	gned:		7/	6/2021	1	TEMP In (Received Ice (Y/N)	Custody Sealed Cooler	Samples Intact (Y/N)
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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section Require	A I Client Information:	Section B Required Pro	oject	Informatio	on:					tion (C nation	:													P	age :) A	5	Of	5
Company	Langan Engineering	Report To:	Bill L	ambing					ŀ	Attenti	ion:	Bill L	.ambi	ng			_]							
Address:	2700 Kelly Road, Suite 200	Сору То:		_					C	Compa	any N	ame:	Lang	an Eng	ineeri	ing														
Warringt	on, PA 18976								1	Addres	ss:	2700	Kell	y Road	, Suite	e 200							1.0	100		Regu	lato	ry Agend	y .	
Email:	blambing@langan.com	Purchase Ord	ler #:	2001	30403-400	0-001			F	Pace (Quote	:		Se	e Lan	igan-F	ace	MSA		_										
Phone:	215-491-6500 Fax 2015-491-6501	Project Name:	:	Central Bu	icks Scho	ol Distri	ict (CB We	est)	F	Pace F	Projec	t Mana	iger:	so	phia,s	parke	s@p	acela	bs.com	ι,						Sta	ite / L	.ocation		
Requeste	ed Due Date: Standard Turn Around (5 day)	Project #: 200	1304	103					Ē	Pace F	Profile	e #:	7983								_	_		_			P	A		
						1			-							1			Requ	ested	Analy	ysis Fi	iltered	(Y/N)				ni si		
	MATRIX	CODE	codes to left)	C=COMP)	(COLLEC	CTED		z			Pre	serv	vative	s		Y/N													
	Drinking W Wate Waste Wa Product Sol/Solid Oil	WT er WW P SL OL	(see valid code	(G=GRAB C=	START		EN	D	AT COLLECTION	RS							s Test	PB)									rine (Y/N)			
ITEM #	One Character per box. Wipe (A-Z, 0-9 / , -) Air Sample Ids must be unique Tissue	WP AR OT TS	MATRIX CODE	SAMPLE TYPE	TE T	IME	DATE		SAMPLE TEMP	# OF CONTAINERS	Unpreservea H2SO4	HNO3	HCI	NaOH Na2S203	Methanol	Other	Analyses	200.7 Metals (PB)									Residual Chlorine			
40			-			700 7	7/2/2021	728	Т	1		x						x												
49	H101_070221		DW	G 7/2/2	J21 i	728 7	7/2/2021	128	+	+		+^			-	\vdash			-	+		-			-		F			
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Pa				0,	02	1		101			0	1	U	00	-							ć	21							
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23 (PRIM	NT Name o	of SAMPLE	R:				-		-	-	-			-	-	-	_		-	u C	·	ed on	2	ŝ
Page 23 of 24	1)				\vdash	SIG	NATURE o	of SAMPLE	R:	3	12	20	P				B		nbing ATE S	igned	:		7/6/	2021		TEMP In C	2	Received lce (Y/N)	Custod Sealed Cooler	Sample ntact (Y/N)
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57	Sa	mple (Conditio	n Upon	Receir	WO#:7017	9820
Pace Analytical®					Project		
1 ale Allalylica	Client Na	2	~		Project	PM: STS Due	Date: 07/21/21
		Lang				CLIENT: LAN-PA	
Courier: Fed Ex UPS USPS Client		ercial P	ace Ljoure	;{			
Tracking #:			Vor			Temperature Blank Pre	sent: Yes No
Custody Seal on Cooler/Box Present: Yes	s 🔽 No	Seals in		NU NU		Type of Ice: Wet Blue	None
Packing Material: Bubble Wrap D Bubble	Bags 🗆	Ziploc \square				Samples on ice, cooling p	
Thermometer Used: THO9	Correcti	on Factor	+0.		20	Date/Time 5035A kits p	aced in freezer
Cooler Temperature(°C): 19.0	Cooler I	emperatu	ire Correcte		.0		
Temp should be above freezing to 6.0°C				Data and	Initials of r	person examining contents	19.716/2112
USDA Regulated Soil (🗆 N/A, water sample)						Did samples orignate fro	
Did samples originate in a quarantine zone wi	thin the U	nited State	es: AL, AR, CA	A, FL, GA, ID,	la, MS, NC,	including Hawaii and Pue	
WHANK OK OD OD THE TY AT VA (abook map)?		e l INo				Including Hawaii and Pue	
If Yes to either question, fill out a Regulate	ed Soil Ch	necklist (F	-LI-C-010) a	and include	with SCUR	COMMENTS:	
	1			1		COMMENTS.	
Chain of Custody Present:	Yes	⊡No		1.			
Chain of Custody Filled Out:	ZiYes	□No		2.			
Chain of Custody Relinquished:	ZYes	□No		11			
Sampler Name & Signature on COC:	Yes	⊡No	DN/A	4. 5.			
Samples Arrived within Hold Time:	Yes			5. 6.			
Short Hold Time Analysis (<72hr):	□Yes	PNO					
Rush Turn Around Time Requested:	⊡Yes	No		7. 8.			
Sufficient Volume: (Triple volume provided for		No		9.			
Correct Containers Used:	Tayes	⊡No		9.			
-Pace Containers Used:	TaYes			10.			
Containers Intact:	Wes			11.	Note if se	diment is visible in the disso	lved container.
Filtered volume received for Dissolved tests	EYes			12.	NOTE IL SC	diment is visible in the diece	
Sample Labels match COC:	Ves	⊡No		12.			
-Includes date/time/ID, Matrix: SL			⊡N/A	13.	□ HNO ₃	□ H ₂ SO ₄ □ NaOH	
All containers needing preservation have bee	nLives	⊡No		10.	L111103		
checked? pH paper Lot # HC02S486	1						
pH paper Lot # <i>MCO2098C</i> All containers needing preservation are foun	d to be			Sample ;	#		
in compliance with method recommendation	17						
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	Yes	⊡No	⊡N/A	1			
NAOH>12 Cyanide)	1						
Exceptions: VOA, Coliform, TOC/DOC, Oil and C	Grease,						la det stin
DR0/8015 (water).	-			Initial wh	en complet	ed: Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysi	S					preservative:	added:
Samples checked for dechlorination:	⊡Yes	⊡No	CN/A	14.			
KI starch test strips Lot #							
Residual chlorine strips Lot #					Positive for	r Res. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	⊡Yes	⊡No	DN/A	15.			
Lead Acetate Strips Lot #					2		
Headspace in VOA Vials (>6mm):	⊡Yes	□No	DN/A	16.			
Trip Blank Present:	⊡Yes	⊡No	DN/A	17.			
Trip Blank Custody Seals Present	⊡Yes	⊡No	DN/A				
Pace Trip Blank Lot # (if applicable):		-	M				
Client Notification/ Resolution:				Field Dat	a Required		
Person Contacted:					Date/Tin	ne:	
Comments/ Resolution:							
· · · · · · · · · · · · · · · · · · ·							

* PM (Project Manager) review is documented electronically in LIMS.



Technical Excellence Practical Experience Client Responsiveness

August 4, 2021

Thomas M. Hanna, P.E., LEED AP Capital Projects Manager Central Bucks School District 320 West Swamp Road Doylestown, PA 18901

Re: Lead in Drinking Water Sample Collection and Reporting Central Bucks West High School Stadium 375 W Court Street Doylestown, PA 18901

Dear Mr. Hanna:

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. bottle fillers, fountains, sink faucets, etc.) on July 2, 2021 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 figure of the sampling locations and copy of the laboratory report is attached.

Sincerely, Langan Engineering & Environmental Services, Inc.

John U. Musco

John V. Musco Associate

Enclosure cc: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400 \\angan.com\data\DYL\data4\200130403\Project Data\Record Data\Reports\Day 6_7-2-2021_West_West Stad_Lenape_Doyle_Holicong\2nd_West Stadium\West Stadium_Lead_Sampling_Report_2021.docx

New Jersey • New York • Connecticut • Massachusetts • Pennsylvania • Washington, DC • Ohio • Illinois • Florida • Texas • Arizona • Colorado • Washington • California Athens • Calgary • Dubai • London • Panama



Pace Analytical Services, LLC 575 Broad Hollow Road Melville, NY 11747 (631)694-3040

July 14, 2021

Bill Lambing Langan Engineering 2700 Kelly Road Suite 200 Warrington, PA 18976

RE: Project: CENTRAL BUCKS SD (WEST STAD) Pace Project No.: 70179774

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Melville

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

Sincerely,

Dophia Sparkes

Sophia Sparkes sophia.sparkes@pacelabs.com (631)694-3040 Project Manager

Enclosures





CERTIFICATIONS

Project: CENTRAL BUCKS SD (WEST STAD)

Pace Project No.: 70179774

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: NY158 New York Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302



Project: CENTRAL BUCKS SD (WEST STAD)

Sample: CBW1_0702221	Lab ID:	70179774001	Collected: 07/02	/21 07:40	Received:	07/06/21 19:20	Matrix: Drinking	g Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	200.8					
	Pace Anal	ytical Services	- Melville					
Lead	<1.	0 ug/L	1.0	1		07/14/21 09:1	12 7439-92-1	
Sample: CBW6_0702221	Lab ID:	70179774002	Collected: 07/02	/21 07:43	Received:	07/06/21 19:20	Matrix: Drinking	y Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Method: EPA 2 ytical Services						



Project: CENTRAL BUCKS Pace Project No.: 70179774	S SD (WEST STAD)							
QC Batch: 217497 QC Batch Method: EPA 200.8		Analysis M Analysis D Laboratory	escription	2	EPA 200.8 200.8 MET No Pl Pace Analytical S			
Associated Lab Samples: 70179774	001, 70179774002		-					
METHOD BLANK: 1096201		Matri	x: Water					
Associated Lab Samples: 70179774	001, 70179774002		_					
Parameter	Units	Blank Result	Repo Lin		Analyzed	Qualifie	rs	
Lead	ug/L	<1.	0	1.(07/14/21 09:	11		
LABORATORY CONTROL SAMPLE:	1096202							
Parameter	Units	Spike Conc.	LCS Result		LCS % Rec	% Rec Limits	Qualifiers	
Lead	ug/L	50	50	.8	102	85-115		
MATRIX SPIKE SAMPLE:	1096204							
Parameter	Units	701797740 Result	•	ike nc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L		<1.0	50	56.5	112	70-130	
MATRIX SPIKE SAMPLE:	1096206							
Parameter	Units	701798190 Result	09 Sp Co	ike nc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L		<1.0	50	62.8	126	70-130	
SAMPLE DUPLICATE: 1096203								
Parameter	Units	70179774001 Result	Du Res	•	RPD	Qualifiers		
Lead	ug/L	<1.	0	<1.()		_	
SAMPLE DUPLICATE: 1096205		70470040000						
Parameter	Units	70179819009 Result) Du Res		RPD	Qualifiers		
Lead	ug/L	<1.	0	<1.0)		_	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: CENTRAL BUCKS SD (WEST STAD)

Pace Project No.: 70179774

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS SD (WEST STAD)

Pace Project No.: 70179774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179774001 70179774002	CBW1_0702221 CBW6_0702221	EPA 200.8 EPA 200.8	217497 217497		



CHAIN-OF-CUSTODY / Analytical Request D The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu



Section C		Bill Lambing	Company Name: Langan Engineering	Address: 2700 Kelly Road, Suite 200	See Langan-Pace MSA	Vanager: sophia sparkes@pacelabs.com,	: 7983	Requested Analysis Filtered (Y/h	
	Invoice Information:	Attention:	Company Na	Address:	11 Pace Quote:	listrict (West Stadium) Pace Project Manager:	Pace Profile #: 7983		
Section B	Required Project Information:	Report To: Bill Lambing	Copy To:		Purchase Order #: 200130403-400-001	Project Name: Central Bucks School District (West Stadium)	Project #: 200130403		() (J
Section A	Required Client Information:	ompany: Langan Engineering	Address: 2700 Kelly Road, Suite 200	Warrington, PA 18976	blambing@langan.com	215-491-6500 Fax 2015-491-6501	Requested Due Date: Standard Turn Around (5 day)		

Phone:	215-491-6500 Fax 2015-491-6501	Project Name: Central Bucks School District (West Stadium)		Central E	Jucks Sche	ool Distri	ict (West S	(unipe		ace Pr	Pace Project Manager:	Manag.	ēr:	soph	ia spar	rkes@	pacela	sophia sparkes@pacelabs com,	-				Ĩ	Sta	State / Location	tion	N N	
Reques	Standard Turn Around (5 day)	Project #: 200130403	01304(03					d'	ace Pr	Pace Profile #:		7983												ΡA			
						-												Requ	uested	I Analy	sis Filt	Requested Analysis Filtered (Y/N)	(N	Ţ				
	XIATRIX	CODE		(amoc		COLLECTED	CTED		N			Pres	Preservatives	ives		N/X					_				1.			19.7
	SAMPLE ID On ON ON THE Service Water	Watar DW wT ator WW SL OL)=ว 848อ=อ)	START		END		_							tseT									(N\Y) əni			
# WƏTI	One Character per box. Wipe (A-Z, 0-9 /, -) Other Sample Ids must be unique Tissue	AR OT ST	ADD XIATAM		DATE	TIME	DATE	TIME	4 9MPLE TEMP &	# OF CONTAINE	≠OS2H	EONH	NªOH HCI	802SZ63	Methanol	Other Other	1) eleteM 7.005								Residual Chlor			
-	CBW1_070221		MQ	7121.	7/2/2021	740 7	7/2/2021	740		-		×				- 1	×					_						
2	CBW6_070221		MQ	7/2/:	7/2/2021	743 7	7/2/2021	743	_	-		×					×											
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Page					S	SAMPLER		NAME AND SIGNATURE	TURE				S	1	T					120				:				
e 7 oi						PRIF	PRINT Name of SAMPLER:	f SAMPLI	ER:								Bill Lar	Bill Lambing						L in (рэчіэ	tody	l) ler	
f 8						SIG	SIGNATURE of SAMPLER	f SAMPLI	22 C	00	L	J.	J				_	DATE Signed:	Signed			7/6/2021	F	τEW		N/Y)	5eal (Y/N	nec Intac N/Y)
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	Sa	ample (Conditio	on Upon	Rece	WO#:70179	3774
/ Pace Analytical"	Client N				Projec [.]		Date: 07/21/21
/	CHEILIN				110j00	CLIENT: LAN-PA	
Courier: Fed Ex UPS USPS		ercial F	Pace Othe	er			
Tracking #:						1	
Custody Seal on Cooler/Box Present: Ye	s ANO	Seals in	tact: 🗆 Yes	No		Temperature Blank Pres	ent: 🗌 Yes🖊 No
Packing Material: Bubble Wrap Bubble			None 🗆 Ot	her		Type of Ice: Wet Blue	
Thermometer Used: 74091		ion Factor				Samples on ice, cooling pr	
Cooler Temperature[°C]: 19.0			ire Correcte		19.0	Date/Time 5035A kits pla	
Temp should be above freezing to 6.0°C	-	remperate			110		
USDA Regulated Soil (🖾 N/A, water sample	1			Date and L	nitials of	f person examining contents:	7/6/21 - 01/
-							
Did samples originate in a quarantine zone wi		Jnited Stati	es: Al, Ar, Uf	4, FL, GA, ID, L	.a, m5, nu	including Hawaii and Puer	to Picol? Ves No
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?		s 🗆 No		ad iacludo	with COL		(0 Kico) = 103 Az
If Yes to either question, fill out a Regulat	ed Soil Ci	necklist [F	-LI-U-UIUJ a	and include	with SUL	COMMENTS:	
	Alex	⊡No		1		COMMENTS.	
Chain of Custody Present:	Yes			2.			
Chain of Custody Filled Out:				3.			
Chain of Custody Relinquished:	Ves Ves		⊡N/A	4.			
Sampler Name & Signature on COC:	ØYes ØYes			5.			
Samples Arrived within Hold Time:				6.			
Short Hold Time Analysis (<72hr):		DNO		7.			
Rush Turn Around Time Requested:	□Yes			8.			
Sufficient Volume: (Triple volume provided fo				9.			
Correct Containers Used:	Yes			5.			
-Pace Containers Used:	Yes			10.			
Containers Intact:	Yes		TTNP/A	11.	Note if a	sediment is visible in the dissolv	red container
Filtered volume received for Dissolved tests	TYes	⊡No ⊡No		12.	NOLE IL		
Sample Labels match COC:	⊄Yes	LINU		12.			
-Includes date/time/ID, Matrix: SL (WT)		⊡No	⊡N/A	13.	□ HNO ₃	\Box H ₂ SO ₄ \Box NaOH	
All containers needing preservation have bee	res			10.	L111103		
checked? pH paper Lot # MCO25456							
All containers needing preservation are foun	d to be			Sample #			
in compliance with method recommendation							
$(HNO_{3,}H_2SO_4, HCl, NaOH>9$ Sulfide,	Yes	⊡No	⊡N/A	_			
NAOH>12 Cyanide)	T						
Exceptions: VOA, Coliform, TOC/DOC, Oil and C	Grease.						
DR0/8015 (water).				Initial whe	en comple	eted: Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysis	S					preservative:	added:
Samples checked for dechlorination:	⊡Yes	□No	CON/A	14.			
KI starch test strips Lot #							
Residual chlorine strips Lot #					Positive f	or Res. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	⊡Yes	⊡No	DN/A	15.			
Lead Acetate Strips Lot #				-			
Headspace in VOA Vials (>6mm):	⊡Yes	⊡No	DN/A	16.			
Trip Blank Present:	⊡Yes	⊡No	DN/A	17.			
Trip Blank Custody Seals Present	⊡Yes	⊡No	DN/A				
Pace Trip Blank Lot # (if applicable):			<u>.</u>				
Client Notification/ Resolution:				Field Data	a Required	d? Y / N	
Person Contacted:					Date/Ti	ime:	
Comments/ Resolution:							
= = =							

* PM (Project Manager) review is documented electronically in LIMS.