

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
Tohickon Middle School
5051 Old Easton Road
Doylestown, PA 18902**

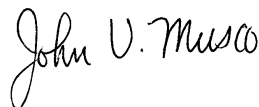
Dear Mr. Hanna:

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 June 23, 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 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 2_6-23-
2021_Toehickon_Gayman_Groveland_Kutz\1st_Toehickon\Toehickon_Lead_Sampling_Report_2021.docx

July 21, 2021

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

RE: Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

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,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: TGLR_062321	Lab ID: 70179932001	Collected: 06/23/21 05:39	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:02	7439-92-1	
Sample: TBLR_062321	Lab ID: 70179932002	Collected: 06/23/21 05:40	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:05	7439-92-1	
Sample: T511F_062321	Lab ID: 70179932003	Collected: 06/23/21 05:42	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:06	7439-92-1	
Sample: T511_062321	Lab ID: 70179932004	Collected: 06/23/21 05:43	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	9.7	ug/L	1.0	1		07/15/21 17:07	7439-92-1	
Sample: TKWS_062321	Lab ID: 70179932005	Collected: 06/23/21 05:47	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.8	ug/L	1.0	1		07/15/21 17:08	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: TKHS_062321	Lab ID: 70179932006	Collected: 06/23/21 05:45	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.8	ug/L	1.0	1		07/15/21 17:09	7439-92-1	
Sample: TNBR_062321	Lab ID: 70179932007	Collected: 06/23/21 05:48	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	10.1	ug/L	1.0	1		07/15/21 17:10	7439-92-1	
Sample: TCAF_062321	Lab ID: 70179932008	Collected: 06/23/21 05:49	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:11	7439-92-1	
Sample: TFAC_062321	Lab ID: 70179932009	Collected: 06/23/21 05:51	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:13	7439-92-1	
Sample: TLFA_062321	Lab ID: 70179932010	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:15	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: TLFB_062321	Lab ID: 70179932011	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:15	7439-92-1	
Sample: T408A_062321	Lab ID: 70179932012	Collected: 06/23/21 05:55	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.0	ug/L	1.0	1		07/15/21 17:18	7439-92-1	
Sample: T408B_062321	Lab ID: 70179932013	Collected: 06/23/21 05:56	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		07/15/21 17:19	7439-92-1	
Sample: T408C_062321	Lab ID: 70179932014	Collected: 06/23/21 05:56	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.5	ug/L	1.0	1		07/15/21 17:20	7439-92-1	
Sample: T408D_062321	Lab ID: 70179932015	Collected: 06/23/21 05:56	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:21	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

Sample: T408E_062321	Lab ID: 70179932016	Collected: 06/23/21 05:57	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		07/15/21 17:22	7439-92-1	

Sample: T408F_062321	Lab ID: 70179932017	Collected: 06/23/21 05:57	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:25	7439-92-1	

Sample: T116A_062321	Lab ID: 70179932018	Collected: 06/23/21 06:01	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:26	7439-92-1	

Sample: T116B_062321	Lab ID: 70179932019	Collected: 06/23/21 06:01	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:27	7439-92-1	

Sample: T116C_062321	Lab ID: 70179932020	Collected: 06/23/21 06:02	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:28	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: T116D_062321	Lab ID: 70179932021	Collected: 06/23/21 06:03	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:31	7439-92-1	

Sample: T116F_062321	Lab ID: 70179932022	Collected: 06/23/21 06:03	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:34	7439-92-1	

Sample: T126A_062321	Lab ID: 70179932023	Collected: 06/23/21 06:06	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:36	7439-92-1	

Sample: T126B_062321	Lab ID: 70179932024	Collected: 06/23/21 06:06	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:37	7439-92-1	

Sample: TGS_062321	Lab ID: 70179932025	Collected: 06/23/21 06:12	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.4	ug/L	1.0	1		07/15/21 17:38	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: TNA_062321	Lab ID: 70179932026	Collected: 06/23/21 06:14	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.7	ug/L	1.0	1		07/15/21 17:39	7439-92-1	

Sample: TNB_062321	Lab ID: 70179932027	Collected: 06/23/21 06:15	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.7	ug/L	1.0	1		07/15/21 17:40	7439-92-1	

Sample: TNC_062321	Lab ID: 70179932028	Collected: 06/23/21 06:15	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:41	7439-92-1	

Sample: TNF_062321	Lab ID: 70179932029	Collected: 06/23/21 06:16	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:42	7439-92-1	

Sample: TLS_062321	Lab ID: 70179932030	Collected: 06/23/21 06:17	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.8	ug/L	1.0	1		07/15/21 17:43	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: TMO_062321	Lab ID: 70179932031	Collected: 06/23/21 06:20	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:44	7439-92-1	
Sample: TEA_062321	Lab ID: 70179932032	Collected: 06/23/21 06:18	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:49	7439-92-1	
Sample: TEB_062321	Lab ID: 70179932033	Collected: 06/23/21 06:19	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:50	7439-92-1	
Sample: T203A_062321	Lab ID: 70179932034	Collected: 06/23/21 06:22	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.6	ug/L	1.0	1		07/15/21 17:51	7439-92-1	
Sample: T203B_062321	Lab ID: 70179932035	Collected: 06/23/21 06:23	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.4	ug/L	1.0	1		07/15/21 17:52	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: T212_062321	Lab ID: 70179932036	Collected: 06/23/21 06:24	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.0	ug/L	1.0	1		07/15/21 17:53	7439-92-1	

Sample: T213F_062321	Lab ID: 70179932037	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:54	7439-92-1	

Sample: T213_062321	Lab ID: 70179932038	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.4	ug/L	1.0	1		07/15/21 17:55	7439-92-1	

Sample: T222_062321	Lab ID: 70179932039	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.2	ug/L	1.0	1		07/15/21 17:56	7439-92-1	

Sample: T222A_062321	Lab ID: 70179932040	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 17:56	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

Sample: T222B_062321	Lab ID: 70179932041	Collected: 06/23/21 06:32	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 18:01	7439-92-1	
Sample: T301A_062321	Lab ID: 70179932042	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 18:04	7439-92-1	
Sample: T301B_062321	Lab ID: 70179932043	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/15/21 18:05	7439-92-1	
Sample: T311A_062321	Lab ID: 70179932044	Collected: 06/23/21 06:39	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.7	ug/L	1.0	1		07/15/21 18:06	7439-92-1	
Sample: T311B_062321	Lab ID: 70179932045	Collected: 06/23/21 06:39	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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		07/15/21 18:07	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

Sample: T311C_062321	Lab ID: 70179932046	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.6	ug/L	1.0	1		07/15/21 18:08	7439-92-1	

Sample: T311D_062321	Lab ID: 70179932047	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.3	ug/L	1.0	1		07/15/21 18:11	7439-92-1	

Sample: T321_062321	Lab ID: 70179932048	Collected: 06/23/21 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 Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.9	ug/L	1.0	1		07/15/21 18:12	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

QC Batch:	217857	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179932001, 70179932002, 70179932003, 70179932004, 70179932005, 70179932006, 70179932007, 70179932008, 70179932009, 70179932010, 70179932011, 70179932012, 70179932013, 70179932014, 70179932015, 70179932016, 70179932017, 70179932018, 70179932019, 70179932020

METHOD BLANK: 1098037 Matrix: Water

Associated Lab Samples: 70179932001, 70179932002, 70179932003, 70179932004, 70179932005, 70179932006, 70179932007, 70179932008, 70179932009, 70179932010, 70179932011, 70179932012, 70179932013, 70179932014, 70179932015, 70179932016, 70179932017, 70179932018, 70179932019, 70179932020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/15/21 16:58	

LABORATORY CONTROL SAMPLE: 1098038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.3	99	85-115	

MATRIX SPIKE SAMPLE: 1098040

Parameter	Units	70179932001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	60.1	120	70-130	

MATRIX SPIKE SAMPLE: 1098042

Parameter	Units	70179932011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	59.3	119	70-130	

SAMPLE DUPLICATE: 1098039

Parameter	Units	70179932001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1098041

Parameter	Units	70179932011 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

QC Batch:	217858	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70179932021, 70179932022, 70179932023, 70179932024, 70179932025, 70179932026, 70179932027, 70179932028, 70179932029, 70179932030, 70179932031, 70179932032, 70179932033, 70179932034, 70179932035, 70179932036, 70179932037, 70179932038, 70179932039, 70179932040

METHOD BLANK: 1098045 Matrix: Water
Associated Lab Samples: 70179932021, 70179932022, 70179932023, 70179932024, 70179932025, 70179932026, 70179932027, 70179932028, 70179932029, 70179932030, 70179932031, 70179932032, 70179932033, 70179932034, 70179932035, 70179932036, 70179932037, 70179932038, 70179932039, 70179932040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/15/21 17:29	

LABORATORY CONTROL SAMPLE: 1098046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.9	100	85-115	

MATRIX SPIKE SAMPLE: 1098048

Parameter	Units	70179932021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	61.6	123	70-130	

MATRIX SPIKE SAMPLE: 1098050

Parameter	Units	70179932031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	62.4	123	70-130	

SAMPLE DUPLICATE: 1098047

Parameter	Units	70179932021 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1098049

Parameter	Units	70179932031 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (TOHICKON)
Pace Project No.: 70179932

QC Batch: 217860 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179932041, 70179932042, 70179932043, 70179932044, 70179932045, 70179932046, 70179932047, 70179932048

METHOD BLANK: 1098052 Matrix: Water
Associated Lab Samples: 70179932041, 70179932042, 70179932043, 70179932044, 70179932045, 70179932046, 70179932047, 70179932048

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/15/21 17:59	

LABORATORY CONTROL SAMPLE: 1098053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	54.4	109	85-115	

MATRIX SPIKE SAMPLE: 1098055

Parameter	Units	70179932041 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	59.3	118	70-130	

SAMPLE DUPLICATE: 1098054

Parameter	Units	70179932041 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179932001	TGLR_062321	EPA 200.8	217857		
70179932002	TBLR_062321	EPA 200.8	217857		
70179932003	T511F_062321	EPA 200.8	217857		
70179932004	T511_062321	EPA 200.8	217857		
70179932005	TKWS_062321	EPA 200.8	217857		
70179932006	TKHS_062321	EPA 200.8	217857		
70179932007	TNBR_062321	EPA 200.8	217857		
70179932008	TCAF_062321	EPA 200.8	217857		
70179932009	TFAC_062321	EPA 200.8	217857		
70179932010	TLFA_062321	EPA 200.8	217857		
70179932011	TLFB_062321	EPA 200.8	217857		
70179932012	T408A_062321	EPA 200.8	217857		
70179932013	T408B_062321	EPA 200.8	217857		
70179932014	T408C_062321	EPA 200.8	217857		
70179932015	T408D_062321	EPA 200.8	217857		
70179932016	T408E_062321	EPA 200.8	217857		
70179932017	T408F_062321	EPA 200.8	217857		
70179932018	T116A_062321	EPA 200.8	217857		
70179932019	T116B_062321	EPA 200.8	217857		
70179932020	T116C_062321	EPA 200.8	217857		
70179932021	T116D_062321	EPA 200.8	217858		
70179932022	T116F_062321	EPA 200.8	217858		
70179932023	T126A_062321	EPA 200.8	217858		
70179932024	T126B_062321	EPA 200.8	217858		
70179932025	TGS_062321	EPA 200.8	217858		
70179932026	TNA_062321	EPA 200.8	217858		
70179932027	TNB_062321	EPA 200.8	217858		
70179932028	TNC_062321	EPA 200.8	217858		
70179932029	TNF_062321	EPA 200.8	217858		
70179932030	TLS_062321	EPA 200.8	217858		
70179932031	TMO_062321	EPA 200.8	217858		
70179932032	TEA_062321	EPA 200.8	217858		
70179932033	TEB_062321	EPA 200.8	217858		
70179932034	T203A_062321	EPA 200.8	217858		
70179932035	T203B_062321	EPA 200.8	217858		
70179932036	T212_062321	EPA 200.8	217858		
70179932037	T213F_062321	EPA 200.8	217858		
70179932038	T213_062321	EPA 200.8	217858		
70179932039	T222_062321	EPA 200.8	217858		
70179932040	T222A_062321	EPA 200.8	217858		
70179932041	T222B_062321	EPA 200.8	217860		
70179932042	T301A_062321	EPA 200.8	217860		
70179932043	T301B_062321	EPA 200.8	217860		
70179932044	T311A_062321	EPA 200.8	217860		
70179932045	T311B_062321	EPA 200.8	217860		
70179932046	T311C_062321	EPA 200.8	217860		
70179932047	T311D_062321	EPA 200.8	217860		
70179932048	T321_062321	EPA 200.8	217860		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS (TOHICKON)

Pace Project No.: 70179932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Rec

WO#: 70179932

Client Name: Lang

Project

PM: STS

Due Date: 07/21/21

CLIENT: LAN-PA

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes NoPacking Material: Bubble Wrap Bubble Bags Ziploc None OtherThermometer Used: T1091 Correction Factor: +0.0Cooler Temperature(°C): 19.0 Cooler Temperature Corrected(°C): 19.0

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)Date and Initials of person examining contents: 19.7.16/21Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes NoDid samples originate from a foreign source including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist [F-LI-C-010] and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID, Matrix: <u>SL (WT) OIL</u>		
All containers needing preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HCO28186</u>		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____