

June 25, 2020

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  
Titus Elementary School  
2333 Lower Barness Rd  
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.) on June 2, 2020 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>
Rm 103	T103-20	22.6 ug/L

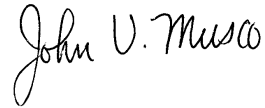
Also, as requested by CBSD, below is a list of locations with lead results above 10 ug/L, but below Pennsylvania Action Level of 15 ug/L:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Rm 108	T108-20	12.5 ug/L
Rm 504	T504-20	11.9 ug/L

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

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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\200130402\Project Data\Record Data\Reports\Day 4\_6-2-2020\_Tohickon\_Titus\_Barclay\Titus\Titus\_Lead\_Sampling\_Memo.docx

June 12, 2020

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

RE: Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2020. 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 DIST (TITUS)

Pace Project No.: 70133549

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)

Pace Project No.: 70133549

Sample: TBRF-20	Lab ID: 70133549001	Collected: 06/02/20 08:21	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		06/11/20 18:09	7439-92-1	

Sample: T402-20	Lab ID: 70133549002	Collected: 06/02/20 08:25	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.8	ug/L	1.0	1		06/11/20 18:12	7439-92-1	

Sample: T401-20	Lab ID: 70133549003	Collected: 06/02/20 08:26	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.7	ug/L	1.0	1		06/11/20 18:13	7439-92-1	

Sample: T404-20	Lab ID: 70133549004	Collected: 06/02/20 08:27	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 15:39	7439-92-1	

Sample: T403-20	Lab ID: 70133549005	Collected: 06/02/20 08:29	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.3	ug/L	1.0	1		06/11/20 18:16	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: TKB-20	Lab ID: 70133549006	Collected: 06/02/20 08:19	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.6	ug/L	1.0	1		06/11/20 18:19	7439-92-1	

Sample: TKA-20	Lab ID: 70133549007	Collected: 06/02/20 08:20	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.9	ug/L	1.0	1		06/11/20 18:25	7439-92-1	

Sample: T406F-20	Lab ID: 70133549008	Collected: 06/02/20 08:30	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 18:27	7439-92-1	

Sample: T406-20	Lab ID: 70133549009	Collected: 06/02/20 08:31	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.3	ug/L	1.0	1		06/11/20 18:30	7439-92-1	

Sample: T407-20	Lab ID: 70133549010	Collected: 06/02/20 08:32	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.4	ug/L	1.0	1		06/11/20 18:32	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)

Pace Project No.: 70133549

Sample: T407F-20	Lab ID: 70133549011	Collected: 06/02/20 08:33	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 18:35	7439-92-1	
<b>Sample: T501-20</b>	<b>Lab ID: 70133549012</b>	Collected: 06/02/20 08:34	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.0	ug/L	1.0	1		06/11/20 18:43	7439-92-1	
<b>Sample: T502-20</b>	<b>Lab ID: 70133549013</b>	Collected: 06/02/20 08:34	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		06/11/20 18:47	7439-92-1	
<b>Sample: T503-20</b>	<b>Lab ID: 70133549014</b>	Collected: 06/02/20 08:35	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.0	ug/L	1.0	1		06/11/20 18:49	7439-92-1	
<b>Sample: T504-20</b>	<b>Lab ID: 70133549015</b>	Collected: 06/02/20 08:36	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	11.9	ug/L	1.0	1		06/11/20 18:50	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)

Pace Project No.: 70133549

Sample: T505-20	Lab ID: 70133549016	Collected: 06/02/20 08:36	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.3	ug/L	1.0	1		06/11/20 18:56	7439-92-1	
<b>Sample: T506-20</b>	<b>Lab ID: 70133549017</b>	Collected: 06/02/20 08:37	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.1	ug/L	1.0	1		06/11/20 18:59	7439-92-1	
<b>Sample: T507-20</b>	<b>Lab ID: 70133549018</b>	Collected: 06/02/20 08:38	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	7.4	ug/L	1.0	1		06/11/20 19:01	7439-92-1	
<b>Sample: T508-20</b>	<b>Lab ID: 70133549019</b>	Collected: 06/02/20 08:39	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.8	ug/L	1.0	1		06/11/20 19:02	7439-92-1	
<b>Sample: T508F-20</b>	<b>Lab ID: 70133549020</b>	Collected: 06/02/20 08:40	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 19:05	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: T307F-20	Lab ID: 70133549021	Collected: 06/02/20 08:41	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 19:12	7439-92-1	

Sample: T306-20	Lab ID: 70133549022	Collected: 06/02/20 08:44	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.8	ug/L	1.0	1		06/11/20 19:17	7439-92-1	

Sample: T305-20	Lab ID: 70133549023	Collected: 06/02/20 08:44	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.7	ug/L	1.0	1		06/11/20 19:17	7439-92-1	

Sample: T304-20	Lab ID: 70133549024	Collected: 06/02/20 08:46	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.9	ug/L	1.0	1		06/11/20 19:19	7439-92-1	

Sample: T303-20	Lab ID: 70133549025	Collected: 06/02/20 08:47	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.1	ug/L	1.0	1		06/11/20 19:30	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: T301-20	Lab ID: 70133549026	Collected: 06/02/20 08:48	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.4	ug/L	1.0	1		06/11/20 19:34	7439-92-1	

Sample: T302C-20	Lab ID: 70133549027	Collected: 06/02/20 08:50	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.4	ug/L	1.0	1		06/11/20 19:43	7439-92-1	

Sample: T107-20	Lab ID: 70133549028	Collected: 06/02/20 08:54	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.7	ug/L	1.0	1		06/11/20 19:45	7439-92-1	

Sample: T109-20	Lab ID: 70133549029	Collected: 06/02/20 08:52	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	7.7	ug/L	1.0	1		06/11/20 19:50	7439-92-1	

Sample: T108-20	Lab ID: 70133549030	Collected: 06/02/20 08:53	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	12.5	ug/L	1.0	1		06/11/20 19:52	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: T106-20	Lab ID: 70133549031	Collected: 06/02/20 08:55	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.4	ug/L	1.0	1		06/11/20 19:57	7439-92-1	
<b>Sample: T105-20</b>	<b>Lab ID: 70133549032</b>	Collected: 06/02/20 08:55	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.8	ug/L	1.0	1		06/11/20 19:59	7439-92-1	
<b>Sample: T103-20</b>	<b>Lab ID: 70133549033</b>	Collected: 06/02/20 08:57	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	22.6	ug/L	1.0	1		06/11/20 20:02	7439-92-1	
<b>Sample: TMOF-20</b>	<b>Lab ID: 70133549034</b>	Collected: 06/02/20 08:58	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 20:10	7439-92-1	
<b>Sample: T101E-20</b>	<b>Lab ID: 70133549035</b>	Collected: 06/02/20 08:59	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.1	ug/L	1.0	1		06/11/20 20:12	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: T201-20	Lab ID: 70133549036	Collected: 06/02/20 09:02	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 20:13	7439-92-1	
Sample: T201A-20	Lab ID: 70133549037	Collected: 06/02/20 09:02	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.0	ug/L	1.0	1		06/11/20 20:16	7439-92-1	
Sample: T203-20	Lab ID: 70133549038	Collected: 06/02/20 09:06	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.0	ug/L	1.0	1		06/11/20 20:18	7439-92-1	
Sample: T204-20	Lab ID: 70133549039	Collected: 06/02/20 09:06	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.4	ug/L	1.0	1		06/12/20 15:42	7439-92-1	
Sample: T205-20	Lab ID: 70133549040	Collected: 06/02/20 09:08	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	2.5	ug/L	1.0	1		06/12/20 15:43	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Sample: T206-20	Lab ID: 70133549041	Collected: 06/02/20 09:08	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.2</b>	ug/L	1.0	1		06/12/20 15:44	7439-92-1	

Sample: T209-20	Lab ID: 70133549042	Collected: 06/02/20 09:10	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>4.4</b>	ug/L	1.0	1		06/12/20 15:45	7439-92-1	

Sample: T210-20	Lab ID: 70133549043	Collected: 06/02/20 09:10	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>9.1</b>	ug/L	1.0	1		06/12/20 15:46	7439-92-1	

Sample: T208-20	Lab ID: 70133549044	Collected: 06/02/20 09:11	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>8.2</b>	ug/L	1.0	1		06/12/20 15:47	7439-92-1	

Sample: T202-20	Lab ID: 70133549045	Collected: 06/02/20 09:04	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.9</b>	ug/L	1.0	1		06/12/20 15:48	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: CENTRAL BUCKS DIST (TITUS)

Project No.: 70133549

QC Batch:	164082	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:	70133549001, 70133549002, 70133549003, 70133549004, 70133549005, 70133549006, 70133549007, 70133549008, 70133549009, 70133549010, 70133549011		

METHOD BLANK:	791497	Matrix:	Water
Associated Lab Samples:	70133549001, 70133549002, 70133549003, 70133549004, 70133549005, 70133549006, 70133549007, 70133549008, 70133549009, 70133549010, 70133549011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 18:07	

LABORATORY CONTROL SAMPLE: 791498						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.3	101	85-115	

MATRIX SPIKE SAMPLE: 791500							
Parameter	Units	70133549001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.1	4	5.6	112	70-130	

MATRIX SPIKE SAMPLE: 791502							
Parameter	Units	70133550005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	3.7	88	70-130	

SAMPLE DUPLICATE: 791499						
Parameter	Units	70133549001 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	1.1	1.1	3		

SAMPLE DUPLICATE: 791501						
Parameter	Units	70133550005 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	<1.0	<1.0			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

QC Batch:	164083	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: 70133549012, 70133549013, 70133549014, 70133549015, 70133549016, 70133549017, 70133549018, 70133549019, 70133549020

METHOD BLANK: 791503 Matrix: Water  
Associated Lab Samples: 70133549012, 70133549013, 70133549014, 70133549015, 70133549016, 70133549017, 70133549018, 70133549019, 70133549020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 18:36	

LABORATORY CONTROL SAMPLE: 791504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	47.6	95	85-115	

MATRIX SPIKE SAMPLE: 791506

Parameter	Units	70133550010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.4	109	70-130	

MATRIX SPIKE SAMPLE: 791508

Parameter	Units	70133550016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.7	105	70-130	

SAMPLE DUPLICATE: 791505

Parameter	Units	70133550010 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791507

Parameter	Units	70133550016 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

QC Batch: 164084 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: 70133549021, 70133549022, 70133549023, 70133549024, 70133549025, 70133549026

METHOD BLANK: 791513 Matrix: Water  
Associated Lab Samples: 70133549021, 70133549022, 70133549023, 70133549024, 70133549025, 70133549026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 19:06	

LABORATORY CONTROL SAMPLE: 791514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.2	100	85-115	

MATRIX SPIKE SAMPLE: 791516

Parameter	Units	70133550021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.2	105	70-130	

MATRIX SPIKE SAMPLE: 791518

Parameter	Units	70133550027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	5.5	133	70-130 M1	

SAMPLE DUPLICATE: 791515

Parameter	Units	70133550021 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791517

Parameter	Units	70133550027 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (TITUS)

Pace Project No.: 70133549

QC Batch:	164085	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: 70133549027, 70133549028, 70133549029, 70133549030, 70133549031, 70133549032, 70133549033

METHOD BLANK: 791522 Matrix: Water  
Associated Lab Samples: 70133549027, 70133549028, 70133549029, 70133549030, 70133549031, 70133549032, 70133549033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 19:35	

LABORATORY CONTROL SAMPLE: 791523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.4	101	85-115	

MATRIX SPIKE SAMPLE: 791525

Parameter	Units	70133550035 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.4	110	70-130	

MATRIX SPIKE SAMPLE: 791527

Parameter	Units	70133549030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	12.5	4	16.9	110	70-130	

SAMPLE DUPLICATE: 791524

Parameter	Units	70133550035 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791526

Parameter	Units	70133549030 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	12.5	12.6	0	

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (TITUS)  
 Pace Project No.: 70133549

QC Batch:	164086	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: 70133549034, 70133549035, 70133549036, 70133549037, 70133549038, 70133549039, 70133549040, 70133549041, 70133549042, 70133549043, 70133549044, 70133549045

METHOD BLANK: 791532 Matrix: Water  
 Associated Lab Samples: 70133549034, 70133549035, 70133549036, 70133549037, 70133549038, 70133549039, 70133549040, 70133549041, 70133549042, 70133549043, 70133549044, 70133549045

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 20:05	

LABORATORY CONTROL SAMPLE: 791533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.0	102	85-115	

MATRIX SPIKE SAMPLE: 791535

Parameter	Units	70133550048 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.3	105	70-130	

MATRIX SPIKE SAMPLE: 791537

Parameter	Units	70133550053 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.5	112	70-130	

SAMPLE DUPLICATE: 791534

Parameter	Units	70133550048 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791536

Parameter	Units	70133550053 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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## QUALIFIERS

Project: CENTRAL BUCKS DIST (TITUS)

Pace Project No.: 70133549

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### 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.

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS DIST (TITUS)  
Pace Project No.: 70133549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133549001	TBRF-20	EPA 200.8	164082		
70133549002	T402-20	EPA 200.8	164082		
70133549003	T401-20	EPA 200.8	164082		
70133549004	T404-20	EPA 200.8	164082		
70133549005	T403-20	EPA 200.8	164082		
70133549006	TKB-20	EPA 200.8	164082		
70133549007	TKA-20	EPA 200.8	164082		
70133549008	T406F-20	EPA 200.8	164082		
70133549009	T406-20	EPA 200.8	164082		
70133549010	T407-20	EPA 200.8	164082		
70133549011	T407F-20	EPA 200.8	164082		
70133549012	T501-20	EPA 200.8	164083		
70133549013	T502-20	EPA 200.8	164083		
70133549014	T503-20	EPA 200.8	164083		
70133549015	T504-20	EPA 200.8	164083		
70133549016	T505-20	EPA 200.8	164083		
70133549017	T506-20	EPA 200.8	164083		
70133549018	T507-20	EPA 200.8	164083		
70133549019	T508-20	EPA 200.8	164083		
70133549020	T508F-20	EPA 200.8	164083		
70133549021	T307F-20	EPA 200.8	164084		
70133549022	T306-20	EPA 200.8	164084		
70133549023	T305-20	EPA 200.8	164084		
70133549024	T304-20	EPA 200.8	164084		
70133549025	T303-20	EPA 200.8	164084		
70133549026	T301-20	EPA 200.8	164084		
70133549027	T302C-20	EPA 200.8	164085		
70133549028	T107-20	EPA 200.8	164085		
70133549029	T109-20	EPA 200.8	164085		
70133549030	T108-20	EPA 200.8	164085		
70133549031	T106-20	EPA 200.8	164085		
70133549032	T105-20	EPA 200.8	164085		
70133549033	T103-20	EPA 200.8	164085		
70133549034	TMOF-20	EPA 200.8	164086		
70133549035	T101E-20	EPA 200.8	164086		
70133549036	T201-20	EPA 200.8	164086		
70133549037	T201A-20	EPA 200.8	164086		
70133549038	T203-20	EPA 200.8	164086		
70133549039	T204-20	EPA 200.8	164086		
70133549040	T205-20	EPA 200.8	164086		
70133549041	T206-20	EPA 200.8	164086		
70133549042	T209-20	EPA 200.8	164086		
70133549043	T210-20	EPA 200.8	164086		
70133549044	T208-20	EPA 200.8	164086		
70133549045	T202-20	EPA 200.8	164086		

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