

September 28, 2020

Robert Kleimenhagen, Jr., CFM  
Director of Facilities & Energy Management Operations  
Central Bucks School District  
320 West Swamp Road  
Doylestown, PA 18901

**Re: Lead in Drinking Water Re-Sample Collection and Reporting  
Buckingham Elementary School  
2414 Durham Road  
Furlong, PA 18912  
Bucks County, Pennsylvania**

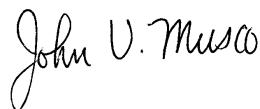
Dear Mr. Kleimenhagen:

This document has been prepared by Langan to provide the results of the drinking water re-sampling activities at the above referenced school. The re-sampling was conducted on September 18, 2020 after a water treatment system was installed at the school. 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 resampling results did not detect any exceedances at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L).

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

Sincerely,  
**Langan Engineering & Environmental Services, Inc.**



John V. Musco  
Associate

Enclosure

cc: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400

\\langan.com\data\DYL\data4\200130402\Project Data\Record Data\Reports\Resampling Data and Report\Buckingham and CB East Resampling 9-18-2020\Buckingham\_Lead\_Re-Sampling\_Memo.docx

September 25, 2020

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

RE: Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 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: CBSD (BUCKINGHAM)

Pace Project No.: 70146875

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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: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B3RR-20	Lab ID: 70146875001	Collected: 09/18/20 06:39	Received: 09/19/20 10:30	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	7.8	ug/L	1.0	1		09/24/20 17:53	7439-92-1	

Sample: B4AR-20	Lab ID: 70146875002	Collected: 09/18/20 06:40	Received: 09/19/20 10:30	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	2.4	ug/L	1.0	1		09/24/20 17:55	7439-92-1	

Sample: B5R-20	Lab ID: 70146875003	Collected: 09/18/20 06:41	Received: 09/19/20 10:30	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	5.7	ug/L	1.0	1		09/24/20 17:59	7439-92-1	

Sample: B6FR-20	Lab ID: 70146875004	Collected: 09/18/20 06:41	Received: 09/19/20 10:30	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		09/24/20 18:01	7439-92-1	

Sample: B8AR-20	Lab ID: 70146875005	Collected: 09/18/20 06:42	Received: 09/19/20 10:30	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		09/24/20 18:03	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B8BR-20	Lab ID: 70146875006	Collected: 09/18/20 06:43	Received: 09/19/20 10:30	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	1.5	ug/L	1.0	1		09/24/20 18:04	7439-92-1	

Sample: B9R-20	Lab ID: 70146875007	Collected: 09/18/20 06:44	Received: 09/19/20 10:30	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	4.7	ug/L	1.0	1		09/24/20 18:06	7439-92-1	

Sample: B11R-20	Lab ID: 70146875008	Collected: 09/18/20 06:45	Received: 09/19/20 10:30	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	3.6	ug/L	1.0	1		09/24/20 18:08	7439-92-1	

Sample: B12AR-20	Lab ID: 70146875009	Collected: 09/18/20 06:46	Received: 09/19/20 10:30	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	5.1	ug/L	1.0	1		09/24/20 18:09	7439-92-1	

Sample: B13R-20	Lab ID: 70146875010	Collected: 09/18/20 06:46	Received: 09/19/20 10:30	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	3.6	ug/L	1.0	1		09/24/20 18:11	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)

Pace Project No.: 70146875

Sample: B16R-20	Lab ID: 70146875011	Collected: 09/18/20 06:48	Received: 09/19/20 10:30	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>3.5</b>	ug/L	1.0	1		09/24/20 18:19	7439-92-1	

Sample: B17R-20	Lab ID: 70146875012	Collected: 09/18/20 06:49	Received: 09/19/20 10:30	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>3.4</b>	ug/L	1.0	1		09/24/20 18:21	7439-92-1	

Sample: B18R-20	Lab ID: 70146875013	Collected: 09/18/20 06:50	Received: 09/19/20 10:30	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>6.6</b>	ug/L	1.0	1		09/24/20 18:22	7439-92-1	

Sample: B19R-20	Lab ID: 70146875014	Collected: 09/18/20 06:50	Received: 09/19/20 10:30	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>3.6</b>	ug/L	1.0	1		09/24/20 18:24	7439-92-1	

Sample: B24RR-20	Lab ID: 70146875015	Collected: 09/18/20 06:55	Received: 09/19/20 10:30	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>4.3</b>	ug/L	1.0	1		09/24/20 18:26	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B23AR-20	Lab ID: 70146875016	Collected: 09/18/20 06:55	Received: 09/19/20 10:30	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		09/24/20 18:27	7439-92-1	
<b>Sample: BLFR-20</b>	<b>Lab ID: 70146875017</b>	Collected: 09/18/20 06:56	Received: 09/19/20 10:30	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		09/24/20 18:29	7439-92-1	
<b>Sample: B38R-20</b>	<b>Lab ID: 70146875018</b>	Collected: 09/18/20 06:57	Received: 09/19/20 10:30	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	4.3	ug/L	1.0	1		09/24/20 18:31	7439-92-1	
<b>Sample: B39R-20</b>	<b>Lab ID: 70146875019</b>	Collected: 09/18/20 06:58	Received: 09/19/20 10:30	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	3.3	ug/L	1.0	1		09/24/20 18:32	7439-92-1	
<b>Sample: B40R-20</b>	<b>Lab ID: 70146875020</b>	Collected: 09/18/20 06:58	Received: 09/19/20 10:30	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		09/24/20 18:40	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B41R-20	Lab ID: 70146875021	Collected: 09/18/20 06:59	Received: 09/19/20 10:30	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		09/24/20 18:45	7439-92-1	

Sample: B44R-20	Lab ID: 70146875022	Collected: 09/18/20 07:01	Received: 09/19/20 10:30	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>3.1</b>	ug/L	1.0	1		09/24/20 18:47	7439-92-1	

Sample: B45R-20	Lab ID: 70146875023	Collected: 09/18/20 07:01	Received: 09/19/20 10:30	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>3.1</b>	ug/L	1.0	1		09/24/20 18:48	7439-92-1	

Sample: B46R-20	Lab ID: 70146875024	Collected: 09/18/20 07:02	Received: 09/19/20 10:30	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>3.5</b>	ug/L	1.0	1		09/24/20 18:50	7439-92-1	

Sample: B47R-20	Lab ID: 70146875025	Collected: 09/18/20 07:03	Received: 09/19/20 10:30	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>3.1</b>	ug/L	1.0	1		09/24/20 18:52	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B51R-20	Lab ID: 70146875026	Collected: 09/18/20 07:05	Received: 09/19/20 10:30	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>6.9</b>	ug/L	1.0	1		09/24/20 18:53	7439-92-1	
<b>Sample: B52R-20</b>	<b>Lab ID: 70146875027</b>	Collected: 09/18/20 07:04	Received: 09/19/20 10:30	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>6.8</b>	ug/L	1.0	1		09/24/20 18:58	7439-92-1	
<b>Sample: B53R-20</b>	<b>Lab ID: 70146875028</b>	Collected: 09/18/20 07:07	Received: 09/19/20 10:30	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>12.0</b>	ug/L	1.0	1		09/24/20 19:00	7439-92-1	
<b>Sample: B54R-20</b>	<b>Lab ID: 70146875029</b>	Collected: 09/18/20 07:06	Received: 09/19/20 10:30	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>11.3</b>	ug/L	1.0	1		09/24/20 19:01	7439-92-1	
<b>Sample: B55RR-20</b>	<b>Lab ID: 70146875030</b>	Collected: 09/18/20 07:08	Received: 09/19/20 10:30	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>8.6</b>	ug/L	1.0	1		09/24/20 19:03	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Sample: B56R-20	Lab ID: 70146875031	Collected: 09/18/20 07:07	Received: 09/19/20 10:30	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>4.8</b>	ug/L	1.0	1		09/24/20 19:08	7439-92-1	

Sample: B57R-20	Lab ID: 70146875032	Collected: 09/18/20 07:10	Received: 09/19/20 10:30	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>2.3</b>	ug/L	1.0	1		09/24/20 19:10	7439-92-1	

Sample: B57AFR-20	Lab ID: 70146875033	Collected: 09/18/20 07:10	Received: 09/19/20 10:30	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>&lt;1.0</b>	ug/L	1.0	1		09/24/20 19:11	7439-92-1	

Sample: B58R-20	Lab ID: 70146875034	Collected: 09/18/20 07:11	Received: 09/19/20 10:30	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>&lt;1.0</b>	ug/L	1.0	1		09/24/20 19:13	7439-92-1	

Sample: BGAR-20	Lab ID: 70146875035	Collected: 09/18/20 07:15	Received: 09/19/20 10:30	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>&lt;1.0</b>	ug/L	1.0	1		09/24/20 19:18	7439-92-1	

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### ANALYTICAL RESULTS

Project: CBSD (BUCKINGHAM)

Pace Project No.: 70146875

Sample: BGBR-20	Lab ID: 70146875036	Collected: 09/18/20 07:14	Received: 09/19/20 10:30	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		09/24/20 19:19	7439-92-1	

Sample: B2AR-20	Lab ID: 70146875037	Collected: 09/18/20 07:17	Received: 09/19/20 10:30	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		09/24/20 19:21	7439-92-1	

Sample: B2BR-20	Lab ID: 70146875038	Collected: 09/18/20 07:17	Received: 09/19/20 10:30	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	4.0	ug/L	1.0	1		09/24/20 19:23	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: CBSD (BUCKINGHAM)

Pace Project No.: 70146875

QC Batch:	178772	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:	70146875001, 70146875002, 70146875003, 70146875004, 70146875005, 70146875006, 70146875007, 70146875008, 70146875009, 70146875010, 70146875011, 70146875012, 70146875013, 70146875014, 70146875015, 70146875016, 70146875017, 70146875018, 70146875019		

METHOD BLANK:	868478	Matrix:	Water
Associated Lab Samples:	70146875001, 70146875002, 70146875003, 70146875004, 70146875005, 70146875006, 70146875007, 70146875008, 70146875009, 70146875010, 70146875011, 70146875012, 70146875013, 70146875014, 70146875015, 70146875016, 70146875017, 70146875018, 70146875019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	09/24/20 17:45	

LABORATORY CONTROL SAMPLE:	868479					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.9	100	85-115	

MATRIX SPIKE SAMPLE:	868481						
Parameter	Units	70146874001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	51.1	4	54.7	91	70-130	

MATRIX SPIKE SAMPLE:	868483						
Parameter	Units	70146875010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	3.6	4	8.0	109	70-130	

SAMPLE DUPLICATE:	868480					
Parameter	Units	70146874001 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	51.1	50.8	0		

SAMPLE DUPLICATE:	868482					
Parameter	Units	70146875010 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	3.6	3.6	1		

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.

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### QUALITY CONTROL DATA

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

QC Batch:	178773	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: 70146875020, 70146875021, 70146875022, 70146875023, 70146875024, 70146875025, 70146875026, 70146875027, 70146875028, 70146875029, 70146875030, 70146875031, 70146875032, 70146875033, 70146875034, 70146875035, 70146875036, 70146875037, 70146875038

METHOD BLANK: 868484 Matrix: Water

Associated Lab Samples: 70146875020, 70146875021, 70146875022, 70146875023, 70146875024, 70146875025, 70146875026, 70146875027, 70146875028, 70146875029, 70146875030, 70146875031, 70146875032, 70146875033, 70146875034, 70146875035, 70146875036, 70146875037, 70146875038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	09/24/20 18:34	

LABORATORY CONTROL SAMPLE: 868485

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

MATRIX SPIKE SAMPLE: 868487

Parameter	Units	70146875020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.3	4	6.6	106	70-130	

MATRIX SPIKE SAMPLE: 868489

Parameter	Units	70146875030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	8.6	4	12.9	108	70-130	

SAMPLE DUPLICATE: 868486

Parameter	Units	70146875020 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.3	2.3	2	

SAMPLE DUPLICATE: 868488

Parameter	Units	70146875030 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	8.6	8.7	1	

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.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: CBSD (BUCKINGHAM)

Pace Project No.: 70146875

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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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CBSD (BUCKINGHAM)  
Pace Project No.: 70146875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70146875001	B3RR-20	EPA 200.8	178772		
70146875002	B4AR-20	EPA 200.8	178772		
70146875003	B5R-20	EPA 200.8	178772		
70146875004	B6FR-20	EPA 200.8	178772		
70146875005	B8AR-20	EPA 200.8	178772		
70146875006	B8BR-20	EPA 200.8	178772		
70146875007	B9R-20	EPA 200.8	178772		
70146875008	B11R-20	EPA 200.8	178772		
70146875009	B12AR-20	EPA 200.8	178772		
70146875010	B13R-20	EPA 200.8	178772		
70146875011	B16R-20	EPA 200.8	178772		
70146875012	B17R-20	EPA 200.8	178772		
70146875013	B18R-20	EPA 200.8	178772		
70146875014	B19R-20	EPA 200.8	178772		
70146875015	B24RR-20	EPA 200.8	178772		
70146875016	B23AR-20	EPA 200.8	178772		
70146875017	BLFR-20	EPA 200.8	178772		
70146875018	B38R-20	EPA 200.8	178772		
70146875019	B39R-20	EPA 200.8	178772		
70146875020	B40R-20	EPA 200.8	178773		
70146875021	B41R-20	EPA 200.8	178773		
70146875022	B44R-20	EPA 200.8	178773		
70146875023	B45R-20	EPA 200.8	178773		
70146875024	B46R-20	EPA 200.8	178773		
70146875025	B47R-20	EPA 200.8	178773		
70146875026	B51R-20	EPA 200.8	178773		
70146875027	B52R-20	EPA 200.8	178773		
70146875028	B53R-20	EPA 200.8	178773		
70146875029	B54R-20	EPA 200.8	178773		
70146875030	B55RR-20	EPA 200.8	178773		
70146875031	B56R-20	EPA 200.8	178773		
70146875032	B57R-20	EPA 200.8	178773		
70146875033	B57AFR-20	EPA 200.8	178773		
70146875034	B58R-20	EPA 200.8	178773		
70146875035	BGAR-20	EPA 200.8	178773		
70146875036	BGBR-20	EPA 200.8	178773		
70146875037	B2AR-20	EPA 200.8	178773		
70146875038	B2BR-20	EPA 200.8	178773		

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Sample Condition Upon Receipt

WO#: 70146875

Client Name:

Project

PM: STS

Due Date: 09/28/20

Langan

CLIENT: LAN-PA

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 7715 6451 3515

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091 Correction Factor: +0.4

Cooler Temperature (°C): 11.9 Cooler Temperature Corrected (°C): 12.3

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( N/A, water sample)

Date and Initials of person examining contents: 9/19/2018

Did 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  NO

Did samples originate from a foreign source (internationally, 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.

Table with 16 rows and 3 columns: Question, Yes/No/N/A, and Comments. Includes items like Chain of Custody Present, Short Hold Time Analysis, and Samples checked for dechlorination.

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution: