

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
Linden Elementary School
480 Linden Avenue
Doylestown, PA 18901**

Dear Mr. Hanna:

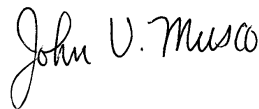
This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. bottle fillers, fountains, sink faucets, etc.) on June 22, 2021 as identified by the Central Bucks School District 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> |
|-----------------|------------------|---------------|
| Rm 35 | L35_062221 | 20.0 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 1_6-22-2021_Buck_Linden_Cold Spring_East_East Stad\2nd_Linden
ES\Linden_Lead_Sampling_Report_2021.docx

July 07, 2021

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

RE: Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 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 (LINDEN)

Pace Project No.: 70178272

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 (LINDEN)
Pace Project No.: 70178272

| Sample: L1_062221 | Lab ID: 70178272001 | Collected: 06/22/21 06:39 | Received: 06/23/21 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 | 4.0 | ug/L | 1.0 | 1 | | 07/07/21 10:25 | 7439-92-1 | |
| Sample: L2_062221 | Lab ID: 70178272002 | Collected: 06/22/21 06:40 | Received: 06/23/21 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 | 3.8 | ug/L | 1.0 | 1 | | 07/07/21 10:28 | 7439-92-1 | |
| Sample: LFD_062221 | Lab ID: 70178272003 | Collected: 06/22/21 06:42 | Received: 06/23/21 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 | | 07/07/21 10:29 | 7439-92-1 | |
| Sample: LA103_062221 | Lab ID: 70178272004 | Collected: 06/22/21 06:43 | Received: 06/23/21 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 | | 07/07/21 10:30 | 7439-92-1 | |
| Sample: LCAF_062221 | Lab ID: 70178272005 | Collected: 06/22/21 06:49 | Received: 06/23/21 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 | | 07/07/21 10:31 | 7439-92-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: LK_062221 | Lab ID: 70178272006 | Collected: 06/22/21 06:47 | Received: 06/23/21 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 | 3.2 | ug/L | 1.0 | 1 | | 07/07/21 10:32 | 7439-92-1 | |
| Sample: LMO_062221 | Lab ID: 70178272007 | Collected: 06/22/21 06:45 | Received: 06/23/21 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 | 6.2 | ug/L | 1.0 | 1 | | 07/07/21 10:35 | 7439-92-1 | |
| Sample: L3_062221 | Lab ID: 70178272008 | Collected: 06/22/21 06:51 | Received: 06/23/21 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 | 7.0 | ug/L | 1.0 | 1 | | 07/07/21 10:36 | 7439-92-1 | |
| Sample: L5_062221 | Lab ID: 70178272009 | Collected: 06/22/21 06:52 | Received: 06/23/21 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 | 12.6 | ug/L | 1.0 | 1 | | 07/07/21 10:37 | 7439-92-1 | |
| Sample: L5F_062221 | Lab ID: 70178272010 | Collected: 06/22/21 06:52 | Received: 06/23/21 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 | | 07/07/21 10:38 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: L7_062221 | Lab ID: 70178272011 | Collected: 06/22/21 06:54 | Received: 06/23/21 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 | 13.3 | ug/L | 1.0 | 1 | | 07/07/21 10:39 | 7439-92-1 | |
| Sample: L8_062221 | Lab ID: 70178272012 | Collected: 06/22/21 06:54 | Received: 06/23/21 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 | 6.2 | ug/L | 1.0 | 1 | | 07/07/21 10:42 | 7439-92-1 | |
| Sample: L9_062221 | Lab ID: 70178272013 | Collected: 06/22/21 06:56 | Received: 06/23/21 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 | 3.1 | ug/L | 1.0 | 1 | | 07/07/21 10:43 | 7439-92-1 | |
| Sample: L10_062221 | Lab ID: 70178272014 | Collected: 06/22/21 06:55 | Received: 06/23/21 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 | 2.9 | ug/L | 1.0 | 1 | | 07/07/21 10:44 | 7439-92-1 | |
| Sample: L11_062221 | Lab ID: 70178272015 | Collected: 06/22/21 06:56 | Received: 06/23/21 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 | 4.1 | ug/L | 1.0 | 1 | | 07/07/21 10:47 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)

Pace Project No.: 70178272

| Sample: L12_062221 | Lab ID: 70178272016 | Collected: 06/22/21 06:57 | Received: 06/23/21 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 | 6.0 | ug/L | 1.0 | 1 | | 07/07/21 10:48 | 7439-92-1 | |
| Sample: L13_062221 | Lab ID: 70178272017 | Collected: 06/22/21 06:58 | Received: 06/23/21 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 | | 07/07/21 10:49 | 7439-92-1 | |
| Sample: L14_062221 | Lab ID: 70178272018 | Collected: 06/22/21 06:59 | Received: 06/23/21 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 | 3.1 | ug/L | 1.0 | 1 | | 07/07/21 10:50 | 7439-92-1 | |
| Sample: L15_062221 | Lab ID: 70178272019 | Collected: 06/22/21 06:59 | Received: 06/23/21 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 | 7.2 | ug/L | 1.0 | 1 | | 07/07/21 10:51 | 7439-92-1 | |
| Sample: L16_062221 | Lab ID: 70178272020 | Collected: 06/22/21 07:00 | Received: 06/23/21 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 | | 07/07/21 10:52 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: LG_062221 | Lab ID: 70178272021 | Collected: 06/22/21 07:01 | Received: 06/23/21 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 | | 07/07/21 10:55 | 7439-92-1 | |
| Sample: L20_062221 | Lab ID: 70178272022 | Collected: 06/22/21 07:03 | Received: 06/23/21 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 | 6.7 | ug/L | 1.0 | 1 | | 07/07/21 11:00 | 7439-92-1 | |
| Sample: L21_062221 | Lab ID: 70178272023 | Collected: 06/22/21 07:04 | Received: 06/23/21 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 | 7.0 | ug/L | 1.0 | 1 | | 07/07/21 11:01 | 7439-92-1 | |
| Sample: L22_062221 | Lab ID: 70178272024 | Collected: 06/22/21 07:05 | Received: 06/23/21 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 | | 07/07/21 11:02 | 7439-92-1 | |
| Sample: L23_062221 | Lab ID: 70178272025 | Collected: 06/22/21 07:05 | Received: 06/23/21 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 | 5.3 | ug/L | 1.0 | 1 | | 07/07/21 11:03 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: L24_062221 | Lab ID: 70178272026 | Collected: 06/22/21 07:07 | Received: 06/23/21 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 | 4.5 | ug/L | 1.0 | 1 | | 07/07/21 11:04 | 7439-92-1 | |

| Sample: L25_062221 | Lab ID: 70178272027 | Collected: 06/22/21 07:07 | Received: 06/23/21 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 | 14.5 | ug/L | 1.0 | 1 | | 07/07/21 11:05 | 7439-92-1 | |

| Sample: L26_062221 | Lab ID: 70178272028 | Collected: 06/22/21 07:08 | Received: 06/23/21 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 | 9.9 | ug/L | 1.0 | 1 | | 07/07/21 11:06 | 7439-92-1 | |

| Sample: L27_062221 | Lab ID: 70178272029 | Collected: 06/22/21 07:09 | Received: 06/23/21 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 | 7.0 | ug/L | 1.0 | 1 | | 07/07/21 11:07 | 7439-92-1 | |

| Sample: L30_062221 | Lab ID: 70178272030 | Collected: 06/22/21 07:11 | Received: 06/23/21 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 | 8.6 | ug/L | 1.0 | 1 | | 07/07/21 11:08 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: L31_062221 | Lab ID: 70178272031 | Collected: 06/22/21 07:12 | Received: 06/23/21 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 | | 07/07/21 11:11 | 7439-92-1 | |
| Sample: L32_062221 | Lab ID: 70178272032 | Collected: 06/22/21 07:13 | Received: 06/23/21 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 | 8.6 | ug/L | 1.0 | 1 | | 07/07/21 11:14 | 7439-92-1 | |
| Sample: L33_062221 | Lab ID: 70178272033 | Collected: 06/22/21 07:15 | Received: 06/23/21 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 | 1.8 | ug/L | 1.0 | 1 | | 07/07/21 11:15 | 7439-92-1 | |
| Sample: L34_062221 | Lab ID: 70178272034 | Collected: 06/22/21 07:17 | Received: 06/23/21 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 | 4.1 | ug/L | 1.0 | 1 | | 07/07/21 11:16 | 7439-92-1 | |
| Sample: L35_062221 | Lab ID: 70178272035 | Collected: 06/22/21 07:18 | Received: 06/23/21 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 | 20.0 | ug/L | 1.0 | 1 | | 07/07/21 11:17 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (LINDEN)
Pace Project No.: 70178272

| Sample: L36_062221 | Lab ID: 70178272036 | Collected: 06/22/21 07:19 | Received: 06/23/21 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 | 9.4 | ug/L | 1.0 | 1 | | 07/07/21 11:18 | 7439-92-1 | |

| Sample: L37_062221 | Lab ID: 70178272037 | Collected: 06/22/21 07:20 | Received: 06/23/21 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 | 14.1 | ug/L | 1.0 | 1 | | 07/07/21 11:19 | 7439-92-1 | |

| Sample: LMC1_062221 | Lab ID: 70178272038 | Collected: 06/22/21 07:21 | Received: 06/23/21 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 | 7.0 | ug/L | 1.0 | 1 | | 07/07/21 11:20 | 7439-92-1 | |

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (LINDEN)

Pace Project No.: 70178272

| | | | |
|-------------------------|--|-----------------------|-------------------------------------|
| QC Batch: | 216508 | 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: | 70178272001, 70178272002, 70178272003, 70178272004, 70178272005, 70178272006, 70178272007, 70178272008, 70178272009, 70178272010, 70178272011, 70178272012, 70178272013, 70178272014, 70178272015, 70178272016, 70178272017, 70178272018, 70178272019, 70178272020 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1090285 | Matrix: | Water |
| Associated Lab Samples: | 70178272001, 70178272002, 70178272003, 70178272004, 70178272005, 70178272006, 70178272007, 70178272008, 70178272009, 70178272010, 70178272011, 70178272012, 70178272013, 70178272014, 70178272015, 70178272016, 70178272017, 70178272018, 70178272019, 70178272020 | | |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead | ug/L | <1.0 | 1.0 | 07/07/21 10:23 | |

| LABORATORY CONTROL SAMPLE: | 1090286 | | | | | |
|----------------------------|---------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | 50 | 51.0 | 102 | 85-115 | |

| MATRIX SPIKE SAMPLE: | 1090288 | | | | | | |
|----------------------|---------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70178272001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | 4.0 | 50 | 63.6 | 119 | 70-130 | |

| MATRIX SPIKE SAMPLE: | 1090290 | | | | | | |
|----------------------|---------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70178272011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | 13.3 | 50 | 67.4 | 108 | 70-130 | |

| SAMPLE DUPLICATE: | 1090287 | | | | |
|-------------------|---------|--------------------|------------|-----|------------|
| Parameter | Units | 70178272001 Result | Dup Result | RPD | Qualifiers |
| Lead | ug/L | 4.0 | 3.9 | 1 | |

| SAMPLE DUPLICATE: | 1090289 | | | | |
|-------------------|---------|--------------------|------------|-----|------------|
| Parameter | Units | 70178272011 Result | Dup Result | RPD | Qualifiers |
| Lead | ug/L | 13.3 | 13.4 | 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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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (LINDEN)

Pace Project No.: 70178272

| | | | |
|-------------------------|--|-----------------------|-------------------------------------|
| QC Batch: | 216509 | 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: | 70178272021, 70178272022, 70178272023, 70178272024, 70178272025, 70178272026, 70178272027, 70178272028, 70178272029, 70178272030, 70178272031, 70178272032, 70178272033, 70178272034, 70178272035, 70178272036, 70178272037, 70178272038 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1090293 | Matrix: | Water |
| Associated Lab Samples: | 70178272021, 70178272022, 70178272023, 70178272024, 70178272025, 70178272026, 70178272027, 70178272028, 70178272029, 70178272030, 70178272031, 70178272032, 70178272033, 70178272034, 70178272035, 70178272036, 70178272037, 70178272038 | | |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead | ug/L | <1.0 | 1.0 | 07/07/21 10:53 | |

| LABORATORY CONTROL SAMPLE: | 1090294 | | | | | |
|----------------------------|---------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | 50 | 51.4 | 103 | 85-115 | |

| MATRIX SPIKE SAMPLE: | 1090296 | | | | | | |
|----------------------|---------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70178272021 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | <1.0 | 50 | 54.3 | 109 | 70-130 | |

| MATRIX SPIKE SAMPLE: | 1090298 | | | | | | |
|----------------------|---------|--------------------|-------------|-----------|----------|--------------|------------|
| Parameter | Units | 70178272031 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Lead | ug/L | <1.0 | 50 | 59.3 | 118 | 70-130 | |

| SAMPLE DUPLICATE: | 1090295 | | | | |
|-------------------|---------|--------------------|------------|-----|------------|
| Parameter | Units | 70178272021 Result | Dup Result | RPD | Qualifiers |
| Lead | ug/L | <1.0 | <1.0 | | |

| SAMPLE DUPLICATE: | 1090297 | | | | |
|-------------------|---------|--------------------|------------|-----|------------|
| Parameter | Units | 70178272031 Result | Dup Result | RPD | Qualifiers |
| Lead | ug/L | <1.0 | <1.0 | | |

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QUALIFIERS

Project: CENTRAL BUCKS (LINDEN)

Pace Project No.: 70178272

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 (LINDEN)
Pace Project No.: 70178272

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|----------|-------------------|------------------|
| 70178272001 | L1_062221 | EPA 200.8 | 216508 | | |
| 70178272002 | L2_062221 | EPA 200.8 | 216508 | | |
| 70178272003 | LFD_062221 | EPA 200.8 | 216508 | | |
| 70178272004 | LA103_062221 | EPA 200.8 | 216508 | | |
| 70178272005 | LCAF_062221 | EPA 200.8 | 216508 | | |
| 70178272006 | LK_062221 | EPA 200.8 | 216508 | | |
| 70178272007 | LMO_062221 | EPA 200.8 | 216508 | | |
| 70178272008 | L3_062221 | EPA 200.8 | 216508 | | |
| 70178272009 | L5_062221 | EPA 200.8 | 216508 | | |
| 70178272010 | L5F_062221 | EPA 200.8 | 216508 | | |
| 70178272011 | L7_062221 | EPA 200.8 | 216508 | | |
| 70178272012 | L8_062221 | EPA 200.8 | 216508 | | |
| 70178272013 | L9_062221 | EPA 200.8 | 216508 | | |
| 70178272014 | L10_062221 | EPA 200.8 | 216508 | | |
| 70178272015 | L11_062221 | EPA 200.8 | 216508 | | |
| 70178272016 | L12_062221 | EPA 200.8 | 216508 | | |
| 70178272017 | L13_062221 | EPA 200.8 | 216508 | | |
| 70178272018 | L14_062221 | EPA 200.8 | 216508 | | |
| 70178272019 | L15_062221 | EPA 200.8 | 216508 | | |
| 70178272020 | L16_062221 | EPA 200.8 | 216508 | | |
| 70178272021 | LG_062221 | EPA 200.8 | 216509 | | |
| 70178272022 | L20_062221 | EPA 200.8 | 216509 | | |
| 70178272023 | L21_062221 | EPA 200.8 | 216509 | | |
| 70178272024 | L22_062221 | EPA 200.8 | 216509 | | |
| 70178272025 | L23_062221 | EPA 200.8 | 216509 | | |
| 70178272026 | L24_062221 | EPA 200.8 | 216509 | | |
| 70178272027 | L25_062221 | EPA 200.8 | 216509 | | |
| 70178272028 | L26_062221 | EPA 200.8 | 216509 | | |
| 70178272029 | L27_062221 | EPA 200.8 | 216509 | | |
| 70178272030 | L30_062221 | EPA 200.8 | 216509 | | |
| 70178272031 | L31_062221 | EPA 200.8 | 216509 | | |
| 70178272032 | L32_062221 | EPA 200.8 | 216509 | | |
| 70178272033 | L33_062221 | EPA 200.8 | 216509 | | |
| 70178272034 | L34_062221 | EPA 200.8 | 216509 | | |
| 70178272035 | L35_062221 | EPA 200.8 | 216509 | | |
| 70178272036 | L36_062221 | EPA 200.8 | 216509 | | |
| 70178272037 | L37_062221 | EPA 200.8 | 216509 | | |
| 70178272038 | LMC1_062221 | EPA 200.8 | 216509 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70178272

Client Name: NJ

Project: _____

PM: STS

Due Date: 07/09/21

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: TH091 Correction Factor: +0.0Cooler Temperature(°C): 23.2 Cooler Temperature Corrected(°C): 23.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)Temperature Blank Present: Yes NoType of Ice: ~~Water~~ Blue None Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

6/23/21Date and Initials of person examining contents: J.I 1926Did 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| -Pace Containers Used: | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. |
| -Includes date/time/ID, Matrix: SL <u>WT OIL</u> | | |
| All containers needing preservation have been checked? | <input checked="" 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>HC155968</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). Per Method, VOA pH is checked after analysis | | Initial when completed: Lot # of added preservative: Date/Time preservative added: |
| 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 checked="" type="checkbox"/> N/A | 15. |
| Lead Acetate Strips Lot # | | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 17. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if applicable): | | |

Client Notification/ Resolution: _____

Field Data Required? _____

Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: Analysis pulled from profile