

July 8, 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
Tamanend Middle School
1492 Stuckert Road
Warrington, PA 18976
Bucks County, Pennsylvania**

Dear Mr. Nickerson:

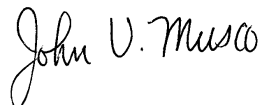
This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. fountains, sink faucets, etc.) on June 6, 2020 as identified by the Central Bucks School District facility inventory. 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>
Kitchen 1 - bowl next to uprights	T3012-20	15.6 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\Day 8_6-6-2020_Holicong_East_East
Stad_Unami_Tamanend\Tamanend\Tamanend_Lead_Sampling_Memo.docx

July 07, 2020

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

RE: Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 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 - Ormond Beach

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 SCHOOL (TAMANEN)

Pace Project No.: 70133941

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70133941001	TAUD-20	EPA 200.8	SLG	1	PASI-O
70133941002	TNA-20	EPA 200.8	SLG	1	PASI-O
70133941003	TNB-20	EPA 200.8	SLG	1	PASI-O
70133941004	TNF-20	EPA 200.8	SLG	1	PASI-O
70133941005	TN-20	EPA 200.8	SLG	1	PASI-O
70133941006	T225A-20	EPA 200.8	SLG	1	PASI-O
70133941007	T225B-20	EPA 200.8	SLG	1	PASI-O
70133941008	T238-20	EPA 200.8	SLG	1	PASI-O
70133941009	T508A-20	EPA 200.8	SLG	1	PASI-O
70133941010	T508B-20	EPA 200.8	SLG	1	PASI-O
70133941011	TBA-20	EPA 200.8	SLG	1	PASI-O
70133941012	TBB-20	EPA 200.8	SLG	1	PASI-O
70133941013	TLO-20	EPA 200.8	SLG	1	PASI-O
70133941014	T307A-20	EPA 200.8	SLG	1	PASI-O
70133941015	T307B-20	EPA 200.8	SLG	1	PASI-O
70133941016	T307C-20	EPA 200.8	SLG	1	PASI-O
70133941017	T307D-20	EPA 200.8	SLG	1	PASI-O
70133941018	T307E-20	EPA 200.8	SLG	1	PASI-O
70133941019	T307F-20	EPA 200.8	SLG	1	PASI-O
70133941020	T310-20	EPA 200.8	SLG	1	PASI-O
70133941021	T303-20	EPA 200.8	SLG	1	PASI-O
70133941022	T301C-20	EPA 200.8	SLG	1	PASI-O
70133941023	T3012-20	EPA 200.8	SLG	1	PASI-O
70133941024	T3016-20	EPA 200.8	SLG	1	PASI-O
70133941025	T3017-20	EPA 200.8	SLG	1	PASI-O
70133941026	T107-20	EPA 200.8	SLG	1	PASI-O
70133941027	T104-20	EPA 200.8	SLG	1	PASI-O
70133941028	T105-20	EPA 200.8	SLG	1	PASI-O
70133941029	TMO-20	EPA 200.8	SLG	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Sample: TAUD-20	Lab ID: 70133941001	Collected: 06/06/20 08:57	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	<1.0	ug/L	1.0	1		07/07/20 10:12	7439-92-1	
Sample: TNA-20	Lab ID: 70133941002	Collected: 06/06/20 09:00	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	<1.0	ug/L	1.0	1		07/07/20 10:13	7439-92-1	
Sample: TNB-20	Lab ID: 70133941003	Collected: 06/06/20 09:00	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.0	ug/L	1.0	1		07/07/20 10:14	7439-92-1	
Sample: TNF-20	Lab ID: 70133941004	Collected: 06/06/20 09:00	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	<1.0	ug/L	1.0	1		07/07/20 10:16	7439-92-1	
Sample: TN-20	Lab ID: 70133941005	Collected: 06/06/20 09:01	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.4	ug/L	1.0	1		07/07/20 10:17	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Sample: T225A-20	Lab ID: 70133941006	Collected: 06/06/20 09:24	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.8	ug/L	1.0	1		07/07/20 10:18	7439-92-1	

Sample: T225B-20	Lab ID: 70133941007	Collected: 06/06/20 09:24	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.9	ug/L	1.0	1		07/07/20 10:19	7439-92-1	

Sample: T238-20	Lab ID: 70133941008	Collected: 06/06/20 09:28	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	<1.0	ug/L	1.0	1		07/07/20 10:20	7439-92-1	

Sample: T508A-20	Lab ID: 70133941009	Collected: 06/06/20 09:29	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.1	ug/L	1.0	1		07/07/20 10:24	7439-92-1	

Sample: T508B-20	Lab ID: 70133941010	Collected: 06/06/20 09:29	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.0	ug/L	1.0	1		07/07/20 10:25	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

Sample: TBA-20	Lab ID: 70133941011	Collected: 06/06/20 09:31	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.5	ug/L	1.0	1		07/07/20 10:34	7439-92-1	

Sample: TBB-20	Lab ID: 70133941012	Collected: 06/06/20 09:31	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.4	ug/L	1.0	1		07/07/20 10:40	7439-92-1	

Sample: TLO-20	Lab ID: 70133941013	Collected: 06/06/20 09:23	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	3.8	ug/L	1.0	1		07/07/20 10:41	7439-92-1	

Sample: T307A-20	Lab ID: 70133941014	Collected: 06/06/20 09:15	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.1	ug/L	1.0	1		07/07/20 10:42	7439-92-1	

Sample: T307B-20	Lab ID: 70133941015	Collected: 06/06/20 09:15	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.6	ug/L	1.0	1		07/07/20 10:43	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Sample: T307C-20	Lab ID: 70133941016	Collected: 06/06/20 09:16	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	4.6	ug/L	1.0	1		07/07/20 10:44	7439-92-1	

Sample: T307D-20	Lab ID: 70133941017	Collected: 06/06/20 09:17	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.4	ug/L	1.0	1		07/07/20 10:45	7439-92-1	

Sample: T307E-20	Lab ID: 70133941018	Collected: 06/06/20 09:17	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	3.9	ug/L	1.0	1		07/07/20 10:47	7439-92-1	

Sample: T307F-20	Lab ID: 70133941019	Collected: 06/06/20 09:17	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	4.4	ug/L	1.0	1		07/07/20 10:48	7439-92-1	

Sample: T310-20	Lab ID: 70133941020	Collected: 06/06/20 09:20	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	1.5	ug/L	1.0	1		07/07/20 10:49	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Sample: T303-20	Lab ID: 70133941021	Collected: 06/06/20 09:20	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.2	ug/L	1.0	1		07/07/20 10:53	7439-92-1	
Sample: T301C-20	Lab ID: 70133941022	Collected: 06/06/20 09:08	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	4.0	ug/L	1.0	1		07/07/20 10:54	7439-92-1	
Sample: T3012-20	Lab ID: 70133941023	Collected: 06/06/20 09:07	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	15.6	ug/L	1.0	1		07/07/20 10:55	7439-92-1	
Sample: T3016-20	Lab ID: 70133941024	Collected: 06/06/20 09:07	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.7	ug/L	1.0	1		07/07/20 10:56	7439-92-1	
Sample: T3017-20	Lab ID: 70133941025	Collected: 06/06/20 09:07	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	7.6	ug/L	1.0	1		07/07/20 10:57	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

Sample: T107-20	Lab ID: 70133941026	Collected: 06/06/20 09:04	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	<1.0	ug/L	1.0	1		07/07/20 10:59	7439-92-1	

Sample: T104-20	Lab ID: 70133941027	Collected: 06/06/20 09:04	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	4.8	ug/L	1.0	1		07/07/20 11:00	7439-92-1	

Sample: T105-20	Lab ID: 70133941028	Collected: 06/06/20 09:13	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	5.2	ug/L	1.0	1		07/07/20 11:01	7439-92-1	

Sample: TMO-20	Lab ID: 70133941029	Collected: 06/06/20 09:03	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	2.9	ug/L	1.0	1		07/07/20 11:02	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

QC Batch:	646052	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70133941001, 70133941002, 70133941003, 70133941004, 70133941005, 70133941006, 70133941007, 70133941008, 70133941009, 70133941010

METHOD BLANK: 3512371 Matrix: Water

Associated Lab Samples: 70133941001, 70133941002, 70133941003, 70133941004, 70133941005, 70133941006, 70133941007, 70133941008, 70133941009, 70133941010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/07/20 10:31	

LABORATORY CONTROL SAMPLE: 3512372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	47.0	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512367 3512368

Parameter	Units	35559875001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	0.00033 J mg/L	50	50	52.2	52.6	104	104	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512369 3512370

Parameter	Units	92483816002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	0.00022 mg/L	50	50	51.4	51.4	102	102	70-130	0	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

QC Batch: 646095

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET No Prep Drinking Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70133941011, 70133941012, 70133941013, 70133941014, 70133941015, 70133941016, 70133941017, 70133941018, 70133941019, 70133941020, 70133941021, 70133941022, 70133941023, 70133941024, 70133941025, 70133941026, 70133941027, 70133941028, 70133941029

METHOD BLANK: 3512614

Matrix: Water

Associated Lab Samples: 70133941011, 70133941012, 70133941013, 70133941014, 70133941015, 70133941016, 70133941017, 70133941018, 70133941019, 70133941020, 70133941021, 70133941022, 70133941023, 70133941024, 70133941025, 70133941026, 70133941027, 70133941028, 70133941029

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

LABORATORY CONTROL SAMPLE: 3512615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	46.8	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512610 3512611

Parameter	Units	70133941011		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Lead	ug/L	1.5	50	50	50	51.7	51.4	100	100	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512612 3512613

Parameter	Units	70134881001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Lead	ug/L	<1.0	50	50	50	50.6	50.0	101	99	70-130	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: CENTRAL BUCKS SCHOOL (TAMANEN)

Pace Project No.: 70133941

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS SCHOOL (TAMANEN)
Pace Project No.: 70133941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133941001	TAUD-20	EPA 200.8	646052		
70133941002	TNA-20	EPA 200.8	646052		
70133941003	TNB-20	EPA 200.8	646052		
70133941004	TNF-20	EPA 200.8	646052		
70133941005	TN-20	EPA 200.8	646052		
70133941006	T225A-20	EPA 200.8	646052		
70133941007	T225B-20	EPA 200.8	646052		
70133941008	T238-20	EPA 200.8	646052		
70133941009	T508A-20	EPA 200.8	646052		
70133941010	T508B-20	EPA 200.8	646052		
70133941011	TBA-20	EPA 200.8	646095		
70133941012	TBB-20	EPA 200.8	646095		
70133941013	TLO-20	EPA 200.8	646095		
70133941014	T307A-20	EPA 200.8	646095		
70133941015	T307B-20	EPA 200.8	646095		
70133941016	T307C-20	EPA 200.8	646095		
70133941017	T307D-20	EPA 200.8	646095		
70133941018	T307E-20	EPA 200.8	646095		
70133941019	T307F-20	EPA 200.8	646095		
70133941020	T310-20	EPA 200.8	646095		
70133941021	T303-20	EPA 200.8	646095		
70133941022	T301C-20	EPA 200.8	646095		
70133941023	T3012-20	EPA 200.8	646095		
70133941024	T3016-20	EPA 200.8	646095		
70133941025	T3017-20	EPA 200.8	646095		
70133941026	T107-20	EPA 200.8	646095		
70133941027	T104-20	EPA 200.8	646095		
70133941028	T105-20	EPA 200.8	646095		
70133941029	TMO-20	EPA 200.8	646095		

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