

April 7, 2021

Mr. Paul Dougherty  
Operations Director  
Scranton School District  
425 North Washington Street  
Scranton, PA 18503

RE: Lead Drinking Water Follow-up Sampling – SY 2020-2021  
Cocciardi Project No. 200115

Dear Mr. Dougherty:

The following report is provided to document the results of the follow-up to the annual lead in drinking water sampling conducted for the 2020-2021 school year (SY) at the Scranton School District buildings throughout Scranton, Pennsylvania.

**BACKGROUND:**

Cocciardi and Associates, Inc. (Cocciardi) was contracted by the Scranton School District to collect lead in drinking water samples from potential drinking and cooking water sources in targeted areas within all school district buildings (nine schools, three facility offices, and the athletics stadium) in accordance with Pennsylvania School Code's Act 39 of 2018<sup>1</sup>.

On February 24, 2021, Cocciardi issued a report of results and findings from the School Year 2020-2021. The report identified 76 distribution points across 17 schools or buildings that were greater than the Environmental Protection Agency (EPA) Action Level of 15 ppb. In addition to the identified elevated locations, Cocciardi added 7 sampling points that were within 15% of the Action Level (+/- 2.25ppb) for a total of 83 samples.

In each of the areas that were identified as elevated, the District took short-term remediation actions which included disabling the fixture, installing Point of Use filters, and/or replacement of fixtures. Prior to re-sampling, some distribution points were excluded from the follow-up testing. The following distribution points were not tested during the follow up:

- 12 water fountains as the District had no intentions of reopening these due to COVID-19 infection risks
- 8 from Scranton Memorial Stadium as the site was still under winter weatherization mode and water was not operational.
- 1 point from Northeast Intermediate in the 1906 wing as this portion of the building will not be reoccupied for this school year.

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<sup>1</sup> Pennsylvania School Code; Act 39; Section 742: Lead Testing, 2018

### **ACTIVITIES:**

Sampling was performed by Cocciardi representative Mr. Robert Pazzaglia (Safety, Health, and Environmental Technologist) between March 9 and March 12, 2021 in accordance with guidelines established by the Environmental Protection Agency<sup>2</sup>. Samples were collected under first-draw methodologies, with a minimum of 8-18 hours of non-use. Sample media included new plastic containers preserved with Nitric Acid, as supplied by the analytical laboratory, Microbac Laboratories, Inc. (Microbac) in Scranton, Pennsylvania. Samples were then sent to the Microbac laboratory in Dayville Connecticut for analysis. Microbac-Dayville is a Pennsylvania Department of Environmental Protection Accredited Laboratory (certificate number 012).

Samples were maintained and hand delivered to Microbac after collection. All samples were collected and analyzed in accordance with U.S. Environmental Protection Agency (EPA) Method 200.8. Results, summarized in Table I below, were compared to the EPA action level of 15 parts per billion (ppb)<sup>3</sup>.

The laboratory analytical report and associated chain of custody are attached in Appendix A.

<b><u>Table I</u></b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
Kennedy Elementary	SSD-1	Floor: 2 <sup>nd</sup> Source: Sink Location: Teachers' Lounge	21.3	1.64
	SSD-2	Floor: 1 <sup>st</sup> Source: Sink Location: Health Office	32.4	13.1
Whittier	SSD-3	Floor: 1 <sup>st</sup> Source: Sink Location: Kitchen 3 bay right	29.1	0.561
Nativity School	SSD-4	Floor: 1 <sup>st</sup> Source: Sink Location: Hand wash sink	29.8	2.19
	SSD-5	Floor: 1 <sup>st</sup> Source: Sink Location: Girl's restroom right sink	37.5	4.08
Prescott	SSD-6	Floor: 1 <sup>st</sup> Source: Sink Location: Medical Room	67.4	6.13

<sup>2</sup> U.S. Environmental Protection Agency; 3Ts for reducing lead in Drinking Water

<sup>3</sup> U.S. Environmental Protection Agency; National Primary Drinking Water Regulations, Lead & Copper Rule; 40 CFR 141 Subpart I

<b>Table I (Continued)</b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
John Adams	SSD-7	Floor: Basement Source: Sink Location: Cafeteria right sink	71.2	11.5
	SSD-8	Floor: Basement Source: Sink Location: Maint. Room sink	48.7	2.28
Bancroft Elementary	SSD-9	Floor: 2nd Source: Sink Location: Room 211	62	<b>1,940</b>
	SSD-10	Floor: 2nd Source: Sink Location: Room 212	15	0.598
	SSD-45	Floor: 1st Source: Sink Location: Room 101	275	<b>1,090</b>
Scranton High	SSD-11	Floor: 1st Source: Sink Location: Kitchen Deli Left	144	1.94
	SSD-12	Floor: 1st Source: Sink Location: Kitchen Deli Right	169	<b>23.7</b>
Armstrong Elementary	SSD-15	Floor: 1st Source: Sink Location: Art Room Middle Sink	23	<b>90.3</b>
	SSD-16	Floor: 1st Source: Sink Location: Room 106	15.3	<b>25.8</b>
Isaac Tripp	SSD-17	Floor: 1st Source: Sink Location: Library	107	<b>49.5</b>
West Intermediate	SSD-18	Floor: 1st Source: Sink Location: Kitchen Wash Left	14.1	13.0
	SSD-19	Floor: 1st Source: Sink Location: Band Room	13	5.15
	SSD-20	Floor: 1st Source: Sink Location: Band Room Girl Bathroom	107	<b>95.0</b>

<b>Table I (Continued)</b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
South Intermediate	SSD-21	Floor: 1st Source: Sink Location: Maint. Office Sink	106	2.51
	SSD-22	Floor: 1st Source: Kettle Location: Kitchen Kettle Middle	21.1	1.70
	SSD-23	Floor: 1st Source: Kettle Location: Kitchen Kettle Left	37.8	<b>15.9</b>
	SSD-24	Floor: 1st Source: Sink Location: Woman's Teachers' Lounge	18.2	2.79
	SSD-25	Floor: 1st Source: Sink Location: Medical Room Front	71.8	<b>57.8</b>
	SSD-26	Floor: 1st Source: Sink Location: Medical Room Rear	125	<b>145.0</b>
	SSD-27	Floor: 1st Source: Sink Location: Medical Room Bathroom	46.6	2.82
	SSD-61	Floor: 1st Source: Sink Location: Girls Locker Room Restroom	153	9.49
	SSD-62	Floor: 1st Source: Sink Location: Boys Locker Room Restroom	739	<b>255.0</b>

<b>Table I (Continued)</b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
McNichols Plaza	SSD-28	Floor: 1st Source: Sink Location: Café Wash Refrigerator	68.2	<b>34.0</b>
	SSD-29	Floor: 1st Source: Sink Location: Café Dishwasher Spray Hose	47	<b>36.6</b>
	SSD-30	Floor: 1st Source: Sink Location: Boy's gym restroom Right	271	<b>67.4</b>
	SSD-31	Floor: 1st Source: Sink Location: Computer Laboratory Left	423	10.6
	SSD-32	Floor: 1st Source: Sink Location: Computer Laboratory Right	52.2	0.687
	SSD-33	Floor: 1st Source: Sink Location: Kindergarten	33.3	8.62
	SSD-34	Floor: 1st Source: Sink Location: 2nd Grade Girls Outside Bathroom	14.5	<b>23.6</b>
	SSD-35	Floor: 1st Source: Sink Location: Library classroom Peach Walls	21.2	<b>95.4</b>
	SSD-36	Floor: 1st Source: Sink Location: Main Office Copy Room	35.7	2.26
	SSD-37	Floor: 1st Source: Sink Location: Nurse Office Restroom	19.6	2.42
	SSD-38	Floor: 1st Source: Sink Location: Room behind Nurses Office	14	<0.4

<b>Table I (Continued)</b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
McNichols Plaza	SSD-63	Floor: 1st Source: Sink Location: Room behind Nurses Office Restroom	76.3	10.0
Charles Sumner	SSD-39	Floor: 1st Source: Sink Location: Preschool Room 002	46.6	<b>52.5</b>
	SSD-40	Floor: 1st Source: Sink Location: Room 003	88.3	<b>28.7</b>
	SSD-41	Floor: 1st Source: Sink Location: Room 102	26.3	<b>71.7</b>
	SSD-42	Floor: 1st Source: Sink Location: Room 103	80.3	<b>18.0</b>
	SSD-43	Floor: 2nd Source: Sink Location: Room 202	49.6	11.7
	SSD-44	Floor: 2nd Source: Sink Location: Room 205	20.7	<b>17.9</b>
West High School	SSD-46	Floor: 3rd Source: Sink Location: Kitchen Window Side Left	185	0.873
Robert Morris	SSD-47	Floor: Basement Source: Sink Location: Art Room Sink	102	<b>28.4</b>
	SSD-48	Floor: 1st Source: Sink Location: room 108 Left Sink	611	<b>105.0</b>
	SSD-49	Floor: 1st Source: Sink Location: room 108 Right Sink	176	<b>57.6</b>
	SSD-50	Floor: 1st Source: Sink Location: Room 103 Sink	556	<b>34.6</b>
	SSD-51	Floor: 1st Source: Sink Location: Room 102 Sink	144	13.4

<b>Table I (Continued)</b> <b>Lead in Water Testing</b> <b>Scranton School District, Scranton, Pennsylvania</b> <b>March 9 – March 12, 2021</b>				
<b>School</b>	<b>Sample ID</b>	<b>Location</b>	<b>Analytical Results 1<sup>st</sup> Round (ppb)</b>	<b>Analytical Results 2<sup>nd</sup> Round (ppb)</b>
Robert Morris	SSD-52	Floor: 2nd Source: Sink Location: Health Room Nurse Station	17.2	1.90
	SSD-53	Floor: 2nd Source: Sink Location: Room 208	419	<b>25.5</b>
Northeast Intermediate	SSD-54	Floor: 1st Source: Sink Location: Home Economics Sink #1	-	<b>41.1</b>
	SSD-55	Floor: 1st Source: Sink Location: Home Economic Sink #2	41.7	<b>33.0</b>
	SSD-56	Floor: 1st Source: Sink Location: Home Economics Sink #3	22.1	<b>21.2</b>
	SSD-57	Floor: 1st Source: Sink Location: Home Economics Sink #4	16.9	<b>21.9</b>
	SSD-58	Floor: 1st Source: Sink Location: Home Economics Sink #5	31.5	<b>54.6</b>
	SSD-59	Floor: 3rd Source: Sink Location: Medical Room Rear Left	35.6	0.576
	SSD-60	Floor: 3rd Source: Sink Location: Medical Room Rear Right	371	1.54

**Table I – Notes**

ppb: Parts per billion  
 <: Below Laboratory Limit of Detection

## **CONCLUSIONS/RECOMMENDATIONS:**

**C/R-1:** Testing of targeted drinking and kitchen water sources identified the following:

- Several samples, as indicated in bold in the tables above, were identified as above the EPA Action Level of 15 ppb.
- All remaining results were below the EPA Action Level. No further action is required for these sources at this time.

For distribution points that tested >15 ppb, at this time, Cocciardi recommends the following:

1. Prohibit use of all fixtures that contain more than 15 ppb (disabling, signage).
2. Retest the fixtures using the two-step bottle procedure (first draw and post flush) to determine if the source of the lead is the unit or the system.
3. Short term options include:
  - Install a point-of-use filter
  - Provide bottled water
  - Flush prior to each use
  - Remove from service
4. Long term options include replacement of the fixtures, associated plumbing, pipes, or components, or reconfiguring the plumbing system. Prior to selecting a long-term option, further investigation into the source(s) of lead is necessary.

**C/R-2:** Communicate the findings from this sampling event and response measures with all affected parties, including staff and parents within the district as well as to the Pennsylvania Department of Education. Communication can be accomplished via posting results (i.e. centrally located in the administration office of each school) and/or on the school district website.

**C/R-3:** After follow-up testing of the fixtures, Cocciardi recommends replacing the fixtures or completing appropriate mitigation methods, and then completing the two-stage sampling again to confirm that lead is no longer present in the distribution systems in excess of the EPA action level.

**C/R-4:** Since water sources not used for human consumption were not tested (janitors' closet, etc.) they should be properly labeled with signage indicating "**Not for Human Consumption**".



**CERTIFICATION:**

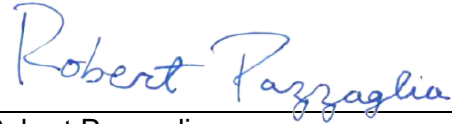
The information contained in this report is believed to be accurate and true to the best knowledge of the inspector(s). Findings and recommendations for this investigation are based on the observations of the conditions, as they existed at that time. The inspector(s) and Cocciardi and Associates, Inc. assumes no liability for financial or health consequences due to actions or lack of actions taken by the client as a result of this inspection.

Sincerely,



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Rocco DiPietro, CSP  
Safety, Health and Environmental Professional  
Cocciardi and Associates, Inc.



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Robert Pazzaglia  
Safety, Health and Environmental Technologist  
Cocciardi and Associates, Inc.

cc: file  
Attachments

## **APPENDIX A**

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### **Laboratory Analytical Report and Chain of Custody**



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Cocciardi and Associates, Inc.

Project Name: 200115 - SSD Lead

Robert Pazzaglia  
1337 Veterans Memorial Drive  
Jessup, PA 18434

Project / PO Number: N/A  
Received: 03/11/2021  
Reported: 03/24/2021

### Analytical Testing Parameters

Client Sample ID:	SSD -1	Collected By:	Robert Pazzaglia
Sample Matrix:	Drinking Water	Collection Date:	03/09/2021 7:23
Lab Sample ID:	T1C1037-01		

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00164	0.015 AL	0.000400	mg/L		03/16/21 1840	03/16/21 1840	EMB

Client Sample ID:	SSD -2	Collected By:	Robert Pazzaglia
Sample Matrix:	Drinking Water	Collection Date:	03/09/2021 7:25
Lab Sample ID:	T1C1037-02		

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0131	0.015 AL	0.000400	mg/L		03/16/21 1845	03/16/21 1845	EMB

Client Sample ID:	SSD -3	Collected By:	Robert Pazzaglia
Sample Matrix:	Drinking Water	Collection Date:	03/09/2021 7:37
Lab Sample ID:	T1C1037-03		

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.000561	0.015 AL	0.000400	mg/L		03/16/21 1847	03/16/21 1847	EMB

Client Sample ID:	SSD -4	Collected By:	Robert Pazzaglia
Sample Matrix:	Drinking Water	Collection Date:	03/09/2021 7:43
Lab Sample ID:	T1C1037-04		

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00219	0.015 AL	0.000400	mg/L		03/16/21 1849	03/16/21 1849	EMB

Microbac Laboratories, Inc.

428 Route 315 | Pittston, PA 18640 | 570-348-0775 p | www.microbac.com

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Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -5  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-05

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 7:46

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00408	0.015 AL	0.000400	mg/L		03/16/21 1851	03/16/21 1851	EMB

Client Sample ID: SSD -6  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-06

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 7:59

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00613	0.015 AL	0.000400	mg/L		03/16/21 1853	03/16/21 1853	EMB

Client Sample ID: SSD -7  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-07

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 8:26

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0115	0.015 AL	0.000400	mg/L		03/16/21 1854	03/16/21 1854	EMB

Client Sample ID: SSD -8  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-08

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 8:29

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00228	0.015 AL	0.000400	mg/L		03/16/21 1900	03/16/21 1900	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -9  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-09

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 9:07

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	1.94	0.015 AL	0.0400	mg/L		03/18/21 1720	03/18/21 1720	EMB

Client Sample ID: SSD -10  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-10

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 9:10

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.000598	0.015 AL	0.000400	mg/L		03/16/21 1907	03/16/21 1907	EMB

Client Sample ID: SSD -11  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-11

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 9:28

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00194	0.015 AL	0.000400	mg/L		03/16/21 1909	03/16/21 1909	EMB

Client Sample ID: SSD -12  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-12

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 9:29

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0237	0.015 AL	0.000400	mg/L		03/16/21 1933	03/16/21 1933	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -15  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-15

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 9:58

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0903	0.015 AL	0.000400	mg/L		03/16/21 1938	03/16/21 1938	EMB

Client Sample ID: SSD -16  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-16

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 10:04

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0258	0.015 AL	0.000400	mg/L		03/16/21 1940	03/16/21 1940	EMB

Client Sample ID: SSD -17  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-17

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 10:38

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0495	0.015 AL	0.000400	mg/L		03/16/21 1942	03/16/21 1942	EMB

Client Sample ID: SSD -18  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-18

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 11:13

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0130	0.015 AL	0.000800	mg/L		03/16/21 0924	03/16/21 1746	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -19  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-19

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 11:16

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00515	0.015 AL	0.000400	mg/L		03/16/21 1944	03/16/21 1944	EMB

Client Sample ID: SSD -20  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-20

Collected By: Robert Pazzaglia  
Collection Date: 03/09/2021 11:18

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0950	0.015 AL	0.000400	mg/L		03/16/21 1949	03/16/21 1949	EMB

Client Sample ID: SSD -21  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-21

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:31

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00251	0.015 AL	0.000400	mg/L		03/16/21 1951	03/16/21 1951	EMB

Client Sample ID: SSD -22  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-22

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:42

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00170	0.015 AL	0.000400	mg/L		03/16/21 1953	03/16/21 1953	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -23  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-23

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:43

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0159	0.015 AL	0.000400	mg/L		03/16/21 1955	03/16/21 1955	EMB

Client Sample ID: SSD -24  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-24

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:49

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00279	0.015 AL	0.000400	mg/L		03/16/21 1957	03/16/21 1957	EMB

Client Sample ID: SSD -25  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-25

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:57

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0578	0.015 AL	0.000400	mg/L		03/16/21 1959	03/16/21 1959	EMB

Client Sample ID: SSD -26  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-26

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:55

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.145	0.015 AL	0.000800	mg/L		03/18/21 1723	03/18/21 1723	EMB





Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -27  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-27

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 7:58

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00282	0.015 AL	0.000400	mg/L		03/16/21 2006	03/16/21 2006	EMB

Client Sample ID: SSD -28  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-28

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 8:45

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0340	0.015 AL	0.000400	mg/L		03/16/21 2011	03/16/21 2011	EMB

Client Sample ID: SSD -29  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-29

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 8:45

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0366	0.015 AL	0.000400	mg/L		03/16/21 2013	03/16/21 2013	EMB

Client Sample ID: SSD -30  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-30

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 8:56

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0674	0.015 AL	0.000400	mg/L		03/16/21 2015	03/16/21 2015	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -31  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-31

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 8:59

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0106	0.015 AL	0.000400	mg/L		03/16/21 2017	03/16/21 2017	EMB

Client Sample ID: SSD -32  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-32

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:00

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.000687	0.015 AL	0.000400	mg/L		03/16/21 2019	03/16/21 2019	EMB

Client Sample ID: SSD -33  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-33

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:05

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00862	0.015 AL	0.000400	mg/L		03/16/21 2021	03/16/21 2021	EMB

Client Sample ID: SSD -34  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-34

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:09

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0236	0.015 AL	0.000400	mg/L		03/16/21 2022	03/16/21 2022	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -35  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-35

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:12

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0954	0.015 AL	0.000800	mg/L		03/18/21 1733	03/18/21 1733	EMB

Client Sample ID: SSD -36  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-36

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:15

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00226	0.015 AL	0.000400	mg/L		03/18/21 1738	03/18/21 1738	EMB

Client Sample ID: SSD -37  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-37

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:19

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00242	0.015 AL	0.000400	mg/L		03/18/21 1744	03/18/21 1744	EMB

Client Sample ID: SSD -38  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-38

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:18

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.000400	0.015 AL	0.000400	mg/L		03/18/21 1745	03/18/21 1745	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -39  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-39

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:50

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0525	0.015 AL	0.000400	mg/L		03/18/21 1747	03/18/21 1747	EMB

Client Sample ID: SSD -40  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-40

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:53

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0287	0.015 AL	0.000400	mg/L		03/18/21 1749	03/18/21 1749	EMB

Client Sample ID: SSD -41  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-41

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:56

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0717	0.015 AL	0.000400	mg/L		03/18/21 1751	03/18/21 1751	EMB

Client Sample ID: SSD -42  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-42

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 9:57

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0180	0.015 AL	0.000400	mg/L		03/18/21 1753	03/18/21 1753	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -43  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-43

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 10:00

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0117	0.015 AL	0.000400	mg/L		03/18/21 1755	03/18/21 1755	EMB

Client Sample ID: SSD -44  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-44

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 10:07

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0179	0.015 AL	0.000400	mg/L		03/18/21 1756	03/18/21 1756	EMB

Client Sample ID: SSD -45  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-45

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 10:27

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	1.09	0.015 AL	0.00800	mg/L		03/18/21 1758	03/18/21 1758	EMB

Client Sample ID: SSD -46  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-46

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 10:42

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.000873	0.015 AL	0.000400	mg/L		03/18/21 1811	03/18/21 1811	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -47  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-47

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:07

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0284	0.015 AL	0.000400	mg/L		03/18/21 1813	03/18/21 1813	EMB

Client Sample ID: SSD -48  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-48

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:10

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.105	0.015 AL	0.000800	mg/L		03/18/21 1815	03/18/21 1815	EMB

Client Sample ID: SSD -49  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-49

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:11

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0576	0.015 AL	0.000400	mg/L		03/18/21 1818	03/18/21 1818	EMB

Client Sample ID: SSD -50  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-50

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:13

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0346	0.015 AL	0.000400	mg/L		03/18/21 1820	03/18/21 1820	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -51  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-51

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:14

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0134	0.015 AL	0.000400	mg/L		03/18/21 1822	03/18/21 1822	EMB

Client Sample ID: SSD -52  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-52

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:16

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00190	0.015 AL	0.000400	mg/L		03/18/21 1824	03/18/21 1824	EMB

Client Sample ID: SSD -53  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-53

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:17

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0255	0.015 AL	0.000400	mg/L		03/18/21 1826	03/18/21 1826	EMB

Client Sample ID: SSD -54  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-54

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:36

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0411	0.015 AL	0.000400	mg/L		03/18/21 1828	03/18/21 1828	EMB



Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -55  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-55

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:36

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0330	0.015 AL	0.000400	mg/L		03/22/21 1503	03/22/21 1503	SEA

Client Sample ID: SSD -56  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-56

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:37

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0212	0.015 AL	0.000400	mg/L		03/22/21 1504	03/22/21 1504	SEA

Client Sample ID: SSD -57  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-57

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:37

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0219	0.015 AL	0.000400	mg/L		03/22/21 1506	03/22/21 1506	SEA

Client Sample ID: SSD -58  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-58

Collected By: Robert Pazzaglia  
Collection Date: 03/10/2021 11:37

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0546	0.015 AL	0.000400	mg/L		03/22/21 1706	03/22/21 1706	SEA





Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1037

Client Sample ID: SSD -59  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-59

Collected By: Robert Pazzaglia  
Collection Date: 03/11/2021 7:34

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.000576	0.015 AL	0.000400	mg/L		03/22/21 1508	03/22/21 1508	SEA

Client Sample ID: SSD -60  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1037-60

Collected By: Robert Pazzaglia  
Collection Date: 03/11/2021 7:35

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00154	0.015 AL	0.000400	mg/L		03/22/21 1517	03/22/21 1517	SEA

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

### Definitions

AL: US EPA Action Level  
MCL: US EPA Maximum Contaminant Level  
mg/L: Milligrams per Liter  
RL: Reporting Limit

### Project Requested Certification(s)

Microbac Laboratories Inc., Pittsburgh Division  
10121  
02-00257

New York State Department of Health  
PA Department of Environmental Protection  
PADEP Accreditation by Rule

Microbac Laboratories, Inc., Pittston Division  
35-05082

Pennsylvania Department of Environmental Protection

### Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.**

Reviewed and Approved By:

Shanna Nish  
Customer Relationship Specialist  
Reported: 03/24/2021 18:02

Microbac Laboratories, Inc.

428 Route 315 | Pittston, PA 18640 | 570-348-0775 p | [www.microbac.com](http://www.microbac.com)

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Cortland, NY 13045  
607.753.3403

2369 Elmira St., Suite C  
Sayre, PA 18840  
570.888.0169

428 Route 315 Hwy  
Pittston, PA 18640  
570.348.0775

4359 Linglestown Rd.  
Harrisburg, PA 17112  
717.651.9700

3719 Garrett Rd.  
Drexel Hill, PA 19026  
484.461.9722

## CHAIN OF CUSTODY RECORD

Number \_\_\_\_\_

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) 19.1  
Therm ID 7

Holding Time yes

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Lab Report Address

Client Name: Coccia and Associates, Inc.

Address: 1337 Veterans Memorial Dr.

City, State, Zip: Jessup, PA, 18434

Contact: RPazzaglia@Coccia.com

Telephone No.: 570-291-0030

Invoice Address

Client Name: Same

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

☒ Routine (5 to 7 business days)  
☐ RUSH\* (notify lab)

(needed by)

Report Type

☒ Results Only ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

Send Report via: ☐ Mail ☐ Fax ☒ e-mail (address)

Send Invoice via: ☐ Mail ☐ Fax ☒ e-mail (address)

Project: 200115-SSD Lead

Location:

PO No.:

Compliance Monitoring? ☐ Yes ☐ No  
( ) Agency/Program

Sampled by (PRINT): Robert Pazzaglia

Sampler Signature: Robert Pazzaglia

Sampler Phone No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO<sub>3</sub>, (2) H<sub>2</sub>SO<sub>4</sub>, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

### REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Additional No.
	SSD-1	3-9-2021	0723	1	DW	G	1	✓	
	SSD-2	3-9-2021	0725	1	DW	G	1	✓	
	SSD-3	3-9-2021	0737	1	DW	G	1	✓	
	SSD-4	3-9-2021	0743	1	DW	G	1	✓	
	SSD-5	3-9-2021	0746	1	DW	G	1	✓	
	SSD-6	3-9-2021	0759	1	DW	G	1	✓	
	SSD-7	3-9-2021	0826	1	DW	G	1	✓	
	SSD-8	3-9-2021	0829	1	DW	G	1	✓	
	SSD-9	3-9-2021	0907	1	DW	G	1	✓	
	SSD-10	3-9-2021	0910	1	DW	G	1	✓	

Possible Hazard Identification ☐ Hazardous ☒ Non-Hazardous ☐ Radioactive

Sample Disposition ☒ Dispose as appropriate ☐ Return ☐ Archive

Comments

Relinquished By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Received By (signature)

Date/Time

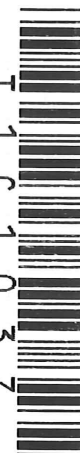
Received By (signature)

Date/Time

3/11/2021 1130

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Coccia and Associates, Inc.  
PM: Shanna Nish





3821 Buck Dr.  
Cortland, NY 13045  
607.753.3403

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570.348.0775

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Harrisburg, PA 17112  
717.651.9700

3719 Garrett Rd.  
Drexel Hill, PA 19026  
484.461.9722

## CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) 19.1

Therm ID 7

Holding Time yes

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

☐ Routine (5 to 7 business days)  
☐ RUSH\* (notify lab)

Report Type

☐ Results Only ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

Lab Report Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

(needed by)

Send Report via: ☐ Mail ☐ Fax ☐ e-mail (address)

Send Invoice via: ☐ Mail ☐ Fax ☐ e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? ☐ Yes ☐ No  
( ) Agency/Program

Sampled by (PRINT):

Sampler  
Signature:

Sampler Phone  
No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO<sub>3</sub>, (2) H<sub>2</sub>SO<sub>4</sub>, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

### REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Additional Not
	SSD-11	3-9-2021	0928	1	DW	G	1	✓	
	SSD-12	3-9-2021	0929	1	DW	G	1	✓	
	SSD-15	3-9-2021	0958	1	DW	G	1	✓	
	SSD-16	3-9-2021	1004	1	DW	G	1	✓	
	SSD-17	3-9-2021	1038	1	DW	G	1	✓	
	SSD-18	3-9-2021	1113	1	DW	G	1	✓	
	SSD-19	3-9-2021	1116	1	DW	G	1	✓	
	SSD-20	3-9-2021	1118	1	DW	G	1	✓	

Possible Hazard Identification ☐ Hazardous ☐ Non-Hazardous ☐ Radioactive

Sample Disposition ☐ Dispose as appropriate ☐ Return ☐ Archive

Comments

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

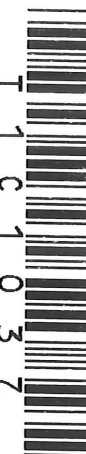
Date/Time

Edi [Signature]

3/11/2021 1130

Page 2 of 6

Cocciardi and Associates, Inc.  
PM: Shanna Nish





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# CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) 19.1  
Therm ID 7

Holding Time yes

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Lab Report Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

[ ] Routine (5 to 7 business days)  
[ ] RUSH\* (notify lab)

(needed by)

Report Type

[ ] Results Only [ ] Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Send Report via: [ ] Mail [ ] Fax [ ] e-mail (address)

Send Invoice via: [ ] Mail [ ] Fax [ ] e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? [ ] Yes [ ] No  
( ) Agency/Program

Sampled by (PRINT):

Sampler  
Signature:

Sampler Phone  
No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO<sub>3</sub>, (2) H<sub>2</sub>SO<sub>4</sub>, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

## REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Additional Not
	SSD-21	3-10-21	0731	1	DW	G	1	✓	
	SSD-22	3-10-21	0742	1	DW	G	1	✓	
	SSD-23	3-10-21	0743	1	DW	G	1	✓	
	SSD-24	3-10-21	0749	1	DW	G	1	✓	
	SSD-25	3-10-21	0757	1	DW	G	1	✓	
	SSD-26	3-10-21	0755	1	DW	G	1	✓	
	SSD-27	3-10-21	0758	1	DW	G	1	✓	
	SSD-28	3-10-21	0845	1	DW	G	1	✓	
	SSD-29	3-10-21	0845	1	DW	G	1	✓	
	SSD-30	3-10-21	0856	1	DW	G	1	✓	

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

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PM: Shanna Nish





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484.461.9722

# CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C)

Therm ID

Holding Time

Samples Received on Ice? Yes ☒ No ☐ N/A

Custody Seals Intact? Yes ☒ No ☐ N/A

[ ] Routine (5 to 7 business days)

[ ] RUSH\* (notify lab)

(needed by)

Report Type

[ ] Results Only [ ] Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Lab Report Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

Send Report via: [ ] Mail [ ] Fax [ ] e-mail (address)

Send Invoice via: [ ] Mail [ ] Fax [ ] e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? [ ] Yes [ ] No

( ) Agency/Program

Sampled by (PRINT):

Sampler  
Signature:

Sampler Phone  
No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

## REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Additional Notes
	SSD-31	3-10-21	0859	1	DW	G	1	✓	
	SSD-32	3-10-21	0900	1	DW	G	1	✓	
	SSD-33	3-10-21	0905	1	DW	G	1	✓	
	SSD-34	3-10-21	0909	1	DW	G	1	✓	
	SSD-35	3-10-21	0912	1	DW	G	1	✓	
	SSD-36	3-10-21	0915	1	DW	G	1	✓	
	SSD-37	3-10-21	0919	1	DW	G	1	✓	
	SSD-38	3-10-21	0918	1	DW	G	1	✓	
	SSD-39	3-10-21	0950	1	DW	G	1	✓	
	SSD-40	3-10-21	0953	1	DW	G	1	✓	

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

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PM: Shanna Nish





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# CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) 19.1

Therm ID 7

Holding Time yes

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Lab Report Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

[ ] Routine (5 to 7 business days)

[ ] RUSH\* (notify lab)

(needed by)

Report Type

[ ] Results Only [ ] Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Send Report via: [ ] Mail [ ] Fax [ ] e-mail (address)

Send Invoice via: [ ] Mail [ ] Fax [ ] e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? [ ] Yes [ ] No

( ) Agency/Program

Sampled by (PRINT):

Sampler  
Signature:

Sampler Phone  
No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO<sub>3</sub>, (2) H<sub>2</sub>SO<sub>4</sub>, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

## REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Additional Note
	SSD-41	3-10-21	0956	1	DW	G	1	✓	
	SSD-42	3-10-21	0957	1	DW	G	1	✓	
	SSD-43	3-10-21	1000	1	DW	G	1	✓	
	SSD-44	3-10-21	1007	1	DW	G	1	✓	
	SSD-45	3-10-21	1027	1	DW	G	1	✓	
	SSD-46	3-10-21	10:42	1	DW	G	1	✓	
	SSD-47	3-10-21	1107	1	DW	G	1	✓	
	SSD-48	3-10-21	1110	1	DW	G	1	✓	
	SSD-49	3-10-21	1111	1	DW	G	1	✓	
	SSD-50	3-10-21	1113	1	DW	G	1	✓	

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

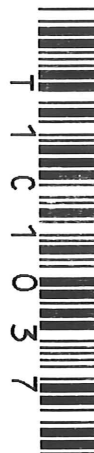
Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Cocciardi and Associates, Inc.  
PM: Shanna Nish





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484.461.9722

# CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) 19.1

Therm ID 7

Holding Time yes

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

[ ] Results Only [ ] Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Lab Report Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

[ ] Routine (5 to 7 business days)

[ ] RUSH\* (notify lab)

(needed by)

Report Type

Send Report via: [ ] Mail [ ] Fax [ ] e-mail (address)

Send Invoice via: [ ] Mail [ ] Fax [ ] e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? [ ] Yes [ ] No

( ) Agency/Program

Sampled by (PRINT):

Sampler  
Signature:

Sampler Phone  
No.:

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\* Preservative Types: (1) HNO<sub>3</sub>, (2) H<sub>2</sub>SO<sub>4</sub>, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

## REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Lead	Adc
	SSD-51	3-10-21	1114	1	DW	G	1	✓	
	SSD-52	3-10-21	1116	1	DW	G	1	✓	
	SSD-53	3-10-21	1117	1	DW	G	1	✓	
	SSD-54	3-10-21	1136	1	DW	G	1	✓	
	SSD-55	3-10-21	1136	1	DW	G	1	✓	
	SSD-56	3-10-21	1137	1	DW	G	1	✓	
	SSD-57	3-10-21	1137	1	DW	G	1	✓	
	SSD-58	3-10-21	1137	1	DW	G	1	✓	
	SSD-59	3-11-21	0734	1	DW	G	1	✓	
	SSD-60	3-11-21	0735	1	DW	G	1	✓	

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time

Relinquished By (signature)

Date/Time

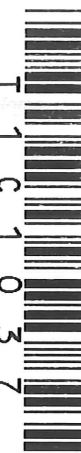
Received By (signature)

Date/Time

3/11/2021 11:30

Page 6 of 6

Cocciardi and Associates, Inc.  
PM: Shama Nish







Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T1C1072

Cocciardi and Associates, Inc.

Project Name: SSD Water (2) - 200115

Robert Pazzaglia  
1337 Veterans Memorial Drive  
Jessup, PA 18434

Project / PO Number: N/A  
Received: 03/12/2021  
Reported: 03/25/2021

Analytical Testing Parameters

Client Sample ID: SSD - 61  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1072-01  
Collected By: Robert Pazzaglia  
Collection Date: 03/12/2021 8:39

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.00949	0.015 AL	0.000400	mg/L		03/22/21 1644	03/22/21 1644	SEA

Client Sample ID: SSD - 62  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1072-02  
Collected By: Robert Pazzaglia  
Collection Date: 03/12/2021 8:42

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<b>0.255</b>	0.015 AL	0.00800	mg/L	<b>D3</b>	03/19/21 1125	03/24/21 1550	SEA

Client Sample ID: SSD - 63  
Sample Matrix: Drinking Water  
Lab Sample ID: T1C1072-03  
Collected By: Robert Pazzaglia  
Collection Date: 03/12/2021 8:53

Analyses Performed by: Microbac Laboratories Inc., Pittsburgh Division

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0100	0.015 AL	0.000400	mg/L		03/22/21 1646	03/22/21 1646	SEA

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

AL: US EPA Action Level  
D3: Dilution was performed due to high target analyte concentration.  
MCL: US EPA Maximum Contaminant Level  
mg/L: Milligrams per Liter  
RL: Reporting Limit





Microbac Laboratories, Inc., Pittston Division

## CERTIFICATE OF ANALYSIS

T1C1072

### Project Requested Certification(s)

Microbac Laboratories Inc., Pittsburgh Division

10121

02-00257

Microbac Laboratories, Inc., Pittston Division

35-05082

New York State Department of Health

PA Department of Environmental Protection

PADEP Accreditation by Rule

Pennsylvania Department of Environmental Protection

### Report Comments

*Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.*

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

### Reviewed and Approved By:

Shanna Nish

Customer Relationship Specialist

Reported: 03/25/2021 16:13

Microbac Laboratories, Inc.

428 Route 315 | Pittston, PA 18640 | 570-348-0775 p | [www.microbac.com](http://www.microbac.com)

