



RK Occupational & Environmental Analysis Inc.

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Mold Assessment
and Remediation

April 5, 2016

Health/Safety and
Environmental
Regulatory
Compliance

Mr. Gary Apgar
Buildings & Grounds Manager
Washington Borough B.O.E.
200 West Stewart Street
Washington, NJ 07882

Right-To-Know

re: **Drinking Water Sampling for Lead and Copper**

OSHA/EPA/DOT
Training Programs

Dear Mr. Apgar,

Asbestos and Lead
Management

Attached is our report on the water sampling that was performed at the Taylor School and the Memorial School on March 23, 2016. The sampling was conducted for information purposes to determine if either Lead or Copper was present in the drinking water at the schools.

Industrial Hygiene/
OSHA Compliance

As noted, since you are served by a public water utility, they are responsible for the periodic testing of water-borne contaminants. There are, however, sources of Lead and Copper in the building's water distribution piping that could impact the drinking water.

Indoor Air Quality

A total of 8 samples were collected in the Taylor School and a total of 10 samples were collected in the Memorial School early in the morning before students and staff arrived to allow for a "first draw" sample of the water.

Underground/
Aboveground
Storage Tanks

Environmental
Site Assessment

Sampling results for both schools showed that levels of Copper were low, well below the Action Level. In addition, 17 of the 18 samples collected had no detectible levels of Lead. A Memorial School sample ("-09") had a measurable Lead content that was slightly in excess of the action level of 0.015 mg/L. This sample location, however, was not from a drinking water location but from a tap on the service line in the Gym Custodial Room.

Hazardous/
Medical Waste
Management

These sampling results indicate that there are no concerns with the drinking water in either school, and therefore, no response action is indicated. If you have any questions, please don't hesitate to call us.

Environmental
Audits

Sincerely,

Expert Witness/
Litigation Support

Patrick D. McGuinness, MS, P.E.
Vice President

Customized
Software

PDM/

(file \Reports\Watertest\Washington Boro-161)

Sampling Results - Lead and Copper in Drinking Water **Taylor School and Memorial School**

1. Introduction and Summary

A total of 8 samples were collected at the Taylor School and a total of 10 samples were collected at the Memorial School to represent drinking water quality as it relates to total Copper and Lead content.

Sampling results for the Taylor School generally showed low levels of Copper while all of the 1st draw samples had no detectible levels of Lead. The Memorial School also showed low levels of Copper and 9 of the 10 water samples showed no detectible levels of Lead. The tenth sample, sample number MS-032316-09, had a measured Lead content of 0.021 mg/L. Because the EPA Action Level relates to the value of the 90th Percentile sample result, these results would be considered acceptable.

All water samples are otherwise acceptable and indicate that the potable water supply does not draw any significant levels of either Lead or Copper from the water distribution piping system.

2. Water Sampling Procedures

Sampling protocols and procedures follow EPA guidelines that were developed for schools. They recognize that the typical school building is actually a conglomeration of an original building with one or more additions, each of which may have a different water distribution system. Implicit in this reality is that the older sections of some school buildings may still have Lead service piping. Other sections constructed before 1986 are likely constructed using leaded solders and fluxes on Copper water lines.

Other potential sources of Lead in drinking water include brass faucets, fittings, and valves, and so called "Lead-Free" solders that are used in the municipal and building piping distribution systems. It is important to note that faucets, fittings, valves and solders used since 1986 may actually contain up to 8% Lead by weight.

The sampling protocol requires that sampling be performed prior to any water use at the building to ensure that "first draw water" was taken; that is, water that has been standing in the service lines overnight. Except for a sample collected from a service tap in the Memorial School Gym Custodial Room, only delivery points that could conceivably be used for drinking or cooking were sampled.

All samples were collected in contaminant free, 1,000-ml containers. Laboratory analysis of the water samples was performed by Analytical Laboratory Services, Inc. of Middletown, PA (NJ DEP Certification No. PA010). The analytical method is per EPA 600/4-79-020, Method 200.8 via atomic absorption, platform furnace technique.

The samples were collected early on a weekday morning before staff and students arrived for classes to allow for a "first draw" sample of the water. The first draw samples represent water that has sat idle in the building piping system overnight (between 8-24 hours).

3. Drinking Water Standards for Lead and Copper

Drinking water quality standards promulgated by the EPA and the NJ Department of Environmental Protection (NJDEP) define Maximum Contaminant Levels (MCL). The MCL is the maximum permissible amount of any regulated contaminants allowed in public drinking water. EPA has also developed MCL goals (or MCLG) that are non-enforceable health goals at levels where no adverse health effects would be expected.

In addition to the MCL, drinking water regulations also identify Action Levels. Current MCLG and Action Levels for Lead and Copper are as follows:

	<u>Action Level</u>	<u>MCLG</u>
Lead (mg/L)	0.015	0.0
Copper (mg/L)	1.30	1.30

Action levels for Lead and Copper are distinguished from MCL in that the source of the metals can be from the water delivery system itself. Since neither Lead nor Copper rarely occur in significant quantities in the raw water supplies, its primary source is typically from corrosion of Copper and/or Lead piping.

Finally, the action levels relate to the 90th percentile sample for Lead and Copper. As noted above, only the Memorial School (Table 2) Service Tap sample in the Gym Custodial Room had any measurable Lead content. In this case, the 90th percentile sample (the ninth highest out of 10 samples) for the building showed no detectible Lead and would have met the Action Level requirement.

4. Sample Results and Discussion

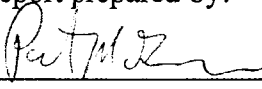
Tables 1 and 2 are appended to the end of this report and list the water sampling locations and laboratory results for Lead and Copper. The complete laboratory analytical report and water sampling log are also appended to this report. All results are expressed as milligrams of Lead or Copper per liter of water (mg/L).

All samples showed low and acceptable levels of Copper at both the Taylor and Memorial Schools. In addition, 17 of the 18 samples collected had no detectible levels of Lead. The 9th sample collected at the Memorial School (MS-0032316-09) had a measured Lead content of 0.021 mg/L which compares with the respective Action Level of 0.015 mg/L. This sample was collected from a tap on the service line in the Gym Custodial Room.

Even though this sample was collected at the point where the water enters the building there is no cause for concern with the result. The tap where this sample was collected is a short horizontal line with a valve that is connected to the service main piping. This would allow water and sediment to accumulate and likely providing false sampling results. More importantly, however, is that the location is not a drinking water delivery point.

Based on these sampling results, it is apparent that there are no concerns with the drinking water in the building. No response action is indicated at this time and it is recommended that the school consider repeating this sampling every five (5) years.

Report prepared by:



Patrick D. McGuinness, MS, P.E.

Table 1: Water Sampling Data
Taylor School: March 23, 2016

Sample No.	Type	Sample Location	Time	Results (mg/L)	
				Cu	Pb
TS-032316-01	Chiller	Next to Room B2	06:33	0.26	ND
TS-032316-02	Faucet	Kitchen - white sink	06:37	0.13	ND
TS-032316-03	Faucet	Nurse's Office sink	06:39	0.059	ND
TS-032316-04	Fountain	In Room 8	06:41	0.058	ND
TS-032316-05	Chiller	In Room 2	06:44	0.31	ND
TS-032316-06	Chiller	Hallway next to Room 16	06:46	0.17	ND
TS-032316-07	Faucet	In Room 20	06:50	0.072	ND
TS-032316-08	Chiller	Opposite Room 12	06:52	0.35	ND

Note: ND means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0020 for Lead.

Table 2: Water Sampling Data
Memorial School: March 23, 2016

Sample No.	Type	Sample Location	Time	Results (mg/L)	
				Cu	Pb
MS-032316-01	Chiller	Hallway opposite Room 100A	07:07	0.069	ND
MS-032316-02	Faucet	Kitchen sink - center	07:10	0.12	ND
MS-032316-03	Faucet	Nurse's Office sink	07:11	0.048	ND
MS-032316-04	Bubbler	Hallway outside Library	07:12	0.038	ND
MS-032316-05	Bubbler	Sink Bubbler in Room 121	07:14	0.070	ND
MS-032316-06	Bubbler	Sink Bubbler in Room 124	07:16	0.080	ND
MS-032316-07	Faucet	Men's Room sink outside Room 119	07:19	0.043	ND
MS-032316-08	Faucet	Bathroom opposite Room 105C	07:23	0.063	ND
MS-032316-09	Service tap	Gym Custodial Room	07:30	0.11	0.021
MS-032316-10	Chiller	Hallway opposite Gym (Room 100)	07:05	0.051	ND

Note: 1. ND means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0020 for Lead.
2. The sample result that exceeds the numeric action level is shown in Bold lettering in the data above

Water Sampling Log

Name of Building Taylor School

Date Collected 23-Mar-16

Building Owner Washington Borough BOE

Sample Collected by RCE

Sample No.	Sample Type	Type of Outlet	Mfg/Model Serial No.	Date Installed	Location	Time	Results		
							Cu	Pb	Units
TS-032316-01	1 st	Chiller	Elkay	-	Next to Room B2	06:33	0.260	<0.0020	mg/L
TS-032316-02	1 st	Faucet	-	-	Kitchen - white sink	06:37	0.130	<0.0020	mg/L
TS-032316-03	1 st	Faucet	-	-	Nurse's Office sink	06:39	0.059	<0.0020	mg/L
TS-032316-04	1 st	Fountain	-	-	In Room 8	06:41	0.058	<0.0020	mg/L
TS-032316-05	1 st	Chiller	Elkay	-	In Room 2	06:44	0.310	<0.0020	mg/L
TS-032316-06	1 st	Chiller	Elkay	-	Hallway next to Room 16	06:46	0.170	<0.0020	mg/L
TS-032316-07	1 st	Faucet	-	-	In Room 20	06:50	0.072	<0.0020	mg/L
TS-032316-08	1 st	Chiller	-	-	Hallway opposite Room 12	06:52	0.350	<0.0020	mg/L

Sample Type: **1st:** First Draw sample collected after water sat in pipe between 8 and 24 hours

Flushed: Water flushed through tap for at least 2 minutes

Water Sampling Log

Name of Building Memorial School Date Collected 23-Mar-16
 Building Owner Washington Borough BOE Sample Collected by RCE

Sample No.	Sample Type	Type of Outlet	Mfg/Model Serial No.	Date Installed	Location	Time	Results		
							Cu	Pb	Units
MS-032316-01	1 st	Chiller	Elkay	-	Hallway opposite Room 100A	07:07	0.069	<0.0020	mg/L
MS-032316-02	1 st	Faucet	-	-	Kitchen sink - center	07:10	0.120	<0.0020	mg/L
MS-032316-03	1 st	Faucet	-	-	Nurse's Office sink	07:11	0.048	<0.0020	mg/L
MS-032316-04	1 st	Bubbler	-	-	Hallway outside Library	07:12	0.038	<0.0020	mg/L
MS-032316-05	1 st	Bubbler	-	-	Sink Bubbler in Room 121	07:14	0.070	<0.0020	mg/L
MS-032316-06	1 st	Bubbler	-	-	Sink Bubbler in Room 124	07:16	0.080	<0.0020	mg/L
MS-032316-07	1 st	Faucet	-	-	Men's Room sink outside Room 119	07:19	0.043	<0.0020	mg/L
MS-032316-08	1 st	Faucet	-	-	Bathroom opposite Room 105C	07:23	0.063	<0.0020	mg/L
MS-032316-09	1 st	Service tap	-	-	Gym Custodial Room	07:30	0.110	0.021	mg/L
MS-032316-10	1 st	Chiller	Elkay	-	Hallway opposite Gym (Room 100)	07:05	0.051	<0.0020	mg/L

Sample Type: **1st:** First Draw sample collected after water sat in pipe between 8 and 24 hours
Flushed: Water flushed through tap for at least 2 minutes



ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

March 29, 2016

Mr. Patrick McGuinness
RK Occ. & Env. Analysis, Inc.
401 St. James Avenue
Phillipsburg, NJ 08865

Certificate of Analysis

Project Name: **Lead & Copper in DW**

Workorder: **2132319**

Purchase Order:

Workorder ID: **16-033 Washington Borough BOE**

Dear Mr. McGuinness:

Enclosed are the analytical results for samples received by the laboratory on Thursday, March 24, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

Ms. Shannon Butler
Project Coordinator

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*

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**SAMPLE SUMMARY**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2132319001	TS-032316-01	Drinking Water	3/23/2016 06:33	3/24/2016 19:30	Collected by Client
2132319002	TS-032316-02	Drinking Water	3/23/2016 06:37	3/24/2016 19:30	Collected by Client
2132319003	TS-032316-03	Drinking Water	3/23/2016 06:39	3/24/2016 19:30	Collected by Client
2132319004	TS-032316-04	Drinking Water	3/23/2016 06:41	3/24/2016 19:30	Collected by Client
2132319005	TS-032316-05	Drinking Water	3/23/2016 06:44	3/24/2016 19:30	Collected by Client
2132319006	TS-032316-06	Drinking Water	3/23/2016 06:46	3/24/2016 19:30	Collected by Client
2132319007	TS-032316-07	Drinking Water	3/23/2016 06:50	3/24/2016 19:30	Collected by Client
2132319008	TS-032316-08	Drinking Water	3/23/2016 06:52	3/24/2016 19:30	Collected by Client
2132319009	MS-032316-01	Drinking Water	3/23/2016 07:07	3/24/2016 19:30	Collected by Client
2132319010	MS-032316-02	Drinking Water	3/23/2016 07:10	3/24/2016 19:30	Collected by Client
2132319011	MS-032316-03	Drinking Water	3/23/2016 07:11	3/24/2016 19:30	Collected by Client
2132319012	MS-032316-04	Drinking Water	3/23/2016 07:12	3/24/2016 19:30	Collected by Client
2132319013	MS-032316-05	Drinking Water	3/23/2016 07:14	3/24/2016 19:30	Collected by Client
2132319014	MS-032316-06	Drinking Water	3/23/2016 07:16	3/24/2016 19:30	Collected by Client
2132319015	MS-032316-07	Drinking Water	3/23/2016 07:19	3/24/2016 19:30	Collected by Client
2132319016	MS-032316-08	Drinking Water	3/23/2016 07:23	3/24/2016 19:30	Collected by Client
2132319017	MS-032316-09	Drinking Water	3/23/2016 07:30	3/24/2016 19:30	Collected by Client
2132319018	MS-032316-10	Drinking Water	3/23/2016 07:05	3/24/2016 19:30	Collected by Client

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SAMPLE SUMMARY

Workorder 2132319 16-033 Washington Borough BOE

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit

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**ALS Environmental**

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319001
Sample ID: TS-032316-01Date Collected: 3/23/2016 06:33 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.26		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:03	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:03	ZMC	A1

Ms. Shannon Butler
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319002**
Sample ID: **TS-032316-02**Date Collected: 3/23/2016 06:37
Date Received: 3/24/2016 19:30

Matrix: Drinking Water

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.13		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:11	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:11	ZMC	A1


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Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319003**
Sample ID: **TS-032316-03**Date Collected: 3/23/2016 06:39 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.059		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:14	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:14	ZMC	A1

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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319004
Sample ID: TS-032316-04Date Collected: 3/23/2016 06:41 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.058		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:27	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:27	ZMC	A1

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Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319005
Sample ID: TS-032316-05Date Collected: 3/23/2016 06:44 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.31		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:30	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:30	ZMC	A1

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319006
Sample ID: TS-032316-06Date Collected: 3/23/2016 06:46 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.17		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:32	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:32	ZMC	A1

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Project Coordinator**ALS Environmental Laboratory Locations Across North America**

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**ALS Environmental**

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01

State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319007

Date Collected: 3/23/2016 06:50

Matrix:

Drinking Water

Sample ID: TS-032316-07

Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.072		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:35	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:35	ZMC	A1

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ANALYTICAL RESULTS

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319008**
Sample ID: **TS-032316-08**

Date Collected: 3/23/2016 06:52 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.35		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:37	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:37	ZMC	A1

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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319009**
Sample ID: **MS-032316-01**Date Collected: 3/23/2016 07:07 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.069		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:40	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:40	ZMC	A1

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**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319010**
Sample ID: **MS-032316-02**Date Collected: 3/23/2016 07:10 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.12		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:43	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:43	ZMC	A1

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**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319011**
Sample ID: **MS-032316-03**Date Collected: 3/23/2016 07:11 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.048		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:45	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:45	ZMC	A1

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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319012**
Sample ID: **MS-032316-04**Date Collected: 3/23/2016 07:12 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.038		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:48	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:48	ZMC	A1

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319013**
Sample ID: **MS-032316-05**Date Collected: 3/23/2016 07:14 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.070		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:56	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:56	ZMC	A1

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: 2132319014

Date Collected: 3/23/2016 07:16

Matrix:

Drinking Water

Sample ID: MS-032316-06

Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.080		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:59	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 07:59	ZMC	A1

Ms. Shannon Butler

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Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319015**
Sample ID: **MS-032316-07**Date Collected: 3/23/2016 07:19 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.043		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:01	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:01	ZMC	A1

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**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319016**
Sample ID: **MS-032316-08**Date Collected: 3/23/2016 07:23 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.063		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:04	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:04	ZMC	A1

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ANALYTICAL RESULTS

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319017**

Date Collected: 3/23/2016 07:30

Matrix: Drinking Water

Sample ID: **MS-032316-09**

Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.11		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:07	ZMC	A1
Lead, Total	0.021		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:07	ZMC	A1

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**ANALYTICAL RESULTS**

Workorder 2132319 16-033 Washington Borough BOE

Lab ID: **2132319018**
Sample ID: **MS-032316-10**Date Collected: 3/23/2016 07:05 Matrix: Drinking Water
Date Received: 3/24/2016 19:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Copper, Total	0.051		mg/L	0.0050	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:09	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	3/28/16 04:35	ZMC	3/28/16 08:09	ZMC	A1

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Generated by ALS

Client Name: RK Occupational & Environmental Analysis		Container Type	PL	Cooler Temp: 35.2		Therm ID: 352		Receiving Lab	
Address: 401 St James Avenue		Container Size	1L						
Phillipsburg, NJ 08865		Preservative	HNO ₃						
Contact: PD McGuinness		ANALYSES/METHOD REQUESTED							
Phone#: 908-454-6316									
Project Name#: 16-033 Washington Borough BOE									
Bill To: Same									
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.									
Rush-Subject to ALS approval and surcharges.									
Date Required: _____ Approved By: _____									
Email? <input checked="" type="checkbox"/> Y PDMCGUINNESS@ENTER.NET									
Fax? <input type="checkbox"/> Y No: _____									
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.		Sample/COC Comments			
TS-032316-01		03-23-16	06:33	G	DW	X			
TS-032316-02		03-23-16	06:37	G	DW	X			
TS-032316-03		03-23-16	06:39	G	DW	X			
TS-032316-04		03-23-16	06:41	G	DW	X			
TS-032316-05		03-23-16	06:44	G	DW	X			
TS-032316-06		03-23-16	06:46	G	DW	X			
TS-032316-07		03-23-16	06:50	G	DW	X			
TS-032316-08		03-23-16	06:52	G	DW	X			
Project Comments: Taylor School		LOGGED BY (Signature):		Date		Time			
REVIEWED BY (Signature):		Date		Time					
Relinquished By / Company Name		Date		Time		Received By / Company Name			
1. P. McGuinness / PDMCGUINNESS@ENTER.NET		3/23/16		3:53 PM		G. McGuinness / ALS			
3. [Signature]		3/24/16		10:45 AM		[Signature]			
5. [Signature]		3/24/16		1:30 PM		[Signature]			
7. [Signature]		3/24/16		1:30 PM		[Signature]			
9. [Signature]		3/24/16		1:30 PM		[Signature]			
State Samples Collected In		Special Processing		Data		Reportable to PADEP?		Sample Disposal	
USACE <input type="checkbox"/> Navy <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> MD <input type="checkbox"/> WV <input type="checkbox"/>		USACE <input type="checkbox"/> Navy <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> MD <input type="checkbox"/> WV <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE		Yes <input type="checkbox"/> No <input type="checkbox"/>		Lab <input type="checkbox"/> Special <input type="checkbox"/>	
ALS Field Services: <input checked="" type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other: _____		PWSID #		EDDS: Format Type: _____		SO=Sludge; WP=Wipe; WW=Wastewater		GOLDENROD - CUSTOMER COPY	

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER INSTRUCTIONS ON THE BACK.**

Generated by AL SI

COC #:	2137319	2 of 2
ALSI Quote #:		

Client Name: RK Occupational & Environmental Analysis Address: 401 St James Avenue Phillipsburg, NJ 08865		Container Type 1L HNO ₃		Receipt Information (completed by Receiving Lab) Cooler Temp: 35.2 Therm ID: 352 No. of Coolers: 1 Y N Initial	
Contact: PD McGuinness Phone: 908-454-8316 Project Name: 16-033 Washington Borough BOE Bill To: Same		ANALYSES/METHOD REQUESTED			
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.		COOLERS Custody Seals Present? <input checked="" type="checkbox"/> (if present) Seals Intact? <input checked="" type="checkbox"/> Received on Ice? <input checked="" type="checkbox"/> COC Labels Complete/Accurate? <input checked="" type="checkbox"/> Cont. In Good Cond.? <input checked="" type="checkbox"/> Correct Containers? <input checked="" type="checkbox"/> Correct Sample Volumes? <input checked="" type="checkbox"/> Correct Preservation? <input checked="" type="checkbox"/> Headspace/Voidless? <input checked="" type="checkbox"/>			
Date Required: _____ Approved By: _____ Email: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N PDMCGUINNESS@ENTER.NET Fax: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N No.: _____		Courier/Tracking #: _____			
Sample Description/Location (as it will appear on the lab report)		Sample Date		Time	
MS-032316-01		03-23-16		07:07	
MS-032316-02		03-23-16		07:10	
MS-032316-03		03-23-16		07:11	
MS-032316-04		03-23-16		07:12	
MS-032316-05		03-23-16		07:14	
MS-032316-06		03-23-16		07:16	
MS-032316-07		03-23-16		07:19	
MS-032316-08		03-23-16		07:23	
MS-032316-09		03-23-16		07:30	
MS-032316-10		03-23-16		07:05	
Project Comments: Memorial School		LOGGED BY (Signature): _____ REVIEWED BY (Signature): _____			
Relinquished By / Company Name		Date		Time	
1 RCEMCO/PA Environmental		3/23/16		3:53 PM	
3 RCEMCO/PA Environmental		3/24/16		10:45 AM	
5 RCEMCO/PA Environmental		3/24/16		8:30 AM	
7 RCEMCO/PA Environmental		3/24/16		8:30 AM	
9 RCEMCO/PA Environmental		3/24/16		8:30 AM	

COPIENBOD - CUSTOMER COPY

GOLDENROD - CUSTOMER COPY

Other Liquor

N=Drinking Water, GW=Groundwater, O

Matrix - Alpha

Grab; C:

[illegible]

10