



RK Occupational & Environmental Analysis Inc.

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Mold Assessment
and Remediation

September 15, 2016

Health/Safety and
Environmental
Regulatory
Compliance

Ms. Donna Trainello
Assistant to Business Administrator
Allamuchy Township Board of Education
PO Box B
Allamuchy, NJ 07820-0386

Right-To-Know

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

OSHA/EPA/DOT
Training Programs

Dear Ms. Trainello,

Asbestos and Lead
Management

Attached is our report on the water sampling that was performed on August 26, 2016. The sampling was conducted to determine if either Lead or Copper was present in the drinking water at the Schools. A total of 21 drinking water samples were collected and submitted for laboratory analysis.

Industrial Hygiene/
OSHA Compliance

Sampling results were mostly acceptable with low Copper levels along with low or no detectable levels of Lead in a majority of the water samples collected. A total of 8 water samples had no detectable levels of Lead present.

Indoor Air Quality

There were 2 water taps where the sample results for Lead exceed the EPA recommended level of 0.015 mg/L. As discussed, we recommend that these locations be turned off and not used until they can be opened for inspection, cleaned of any line sediment, and re-sampled before using. Because these taps may not be used regularly, it may be best to leave them turned off.

Underground/
Aboveground
Storage Tanks

If you have any questions, please don't hesitate to call us.

Environmental
Site Assessment

Sincerely,

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

Hazardous/
Medical Waste
Management

PDM/

(file \Reports\Watertest\Allamuchy (16-117)-161)

Environmental
Audits

Expert Witness/
Litigation Support

Customized
Software

Sampling Results - Lead and Copper in Drinking Water
Allamuchy Township School

1. Introduction and Summary

A total of 21 drinking water samples were collected on August 26, 2016 in various areas of the building. Sampling results showed low but measurable levels of Copper in all and acceptable levels of Lead in most of the water samples collected.

There were 2 water tap locations where the sample results for Lead exceed the NJ Standard of 0.015 mg/L or 15 parts per million (ppm). The bubbler in the Hallway between bathrooms by Room 22 and the bubbler in room 154 should be turned off and not used until they can be opened and inspected for line sediment, cleaned, and re-sampled prior to returning to service.

There are several factors that influence the lead and copper corrosion potential in drinking water piping systems including the water chemistry, temperature and water velocity, the age and condition of the plumbing, and the amount of time the water is in contact with the piping. The last factor is the only one that a building owner can control.

In addition, it appears that some of these taps may not be used regularly. Water sitting stagnant in water lines and taps infrequently used has a greater potential to draw Lead from the solders and brass fittings and fixtures.

2. Water Sampling Procedures

Sampling protocols and procedures that were used follow EPA guidelines that were developed specially for schools and child care centers. 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 is that the older sections of some schools may still have Lead service piping and 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 that are used in the municipal and building piping distribution systems. It is important to note that "Lead-Free" pipe, faucets, pipe fittings, and valves used since 1986 may actually contain up to 8% Lead by weight. In January 2014, this limit was lowered from 8% to 0.2% Lead.

The sampling protocol requires that water be collected prior to any water use at the building to ensure that "first draw water" was taken. This is intended to replicate conditions present at an active drinking water tap after standing in the service lines for at least 8 hours (usually overnight) but no more than 18 hours. Only delivery points that could conceivably be used for drinking or cooking were sampled.

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. All samples were collected in contaminant free, 250-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.

3. Drinking Water Standards for Lead and Copper

There are no current requirements for schools being served by Public Water systems to test for Lead and Copper in their building's Drinking Water. Drinking water quality standards promulgated by the EPA and the NJDEP that apply to public water systems define maximum contaminant levels (MCL).

The MCL is the maximum permissible amount of any regulated contaminant 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.

The standards referenced below come from the EPA's Lead and Copper Rule which requires Public Water utilities to periodically sample the water in their delivery systems for Lead and Copper at the user's end point taps in their homes rather than upstream at the treatment plant. In addition to the MCL, drinking water regulations under "Lead and Copper Rule" also identify Action Levels. Current MCLG and Action Levels for Lead and Copper are as follows:

	Action Level	MCLG
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 occur in significant quantities in the raw water supplies, its primary source in drinking water is typically from corrosion of Copper and/or Lead piping and plumbing components.

These action levels apply to the 90th percentile sample for Lead and Copper. This means that up to 10% of the total sample population within the water delivery system can exceed the respective action levels and the system would still be in compliance with the regulation.

Because of their unique nature with a vulnerable population, EPA has developed sampling protocols and water quality recommendations specifically for schools and child care centers. As noted above, sample collection procedures followed this protocol. In addition and in contrast to the "Lead and Copper Rule", EPA has recommended an MCL (Maximum Lead content) in drinking water of 20 parts per billion (ppb) or 20 mg/L. Recently, NJDEP has recommended this be lowered to 15 ppb for schools in New Jersey.

4. Sample Results and Recommendations

Water sampling logs along with the complete laboratory analytical report is appended to the report. All results are expressed as milligrams of Lead or Copper per liter of water (mg/L). Sampling

results were mostly acceptable with low Copper levels along with low or no detectible levels of Lead in most of the water samples collected.

As shown in the attached **Table 1**, there were 2 out of the 21 water samples collected that had a measured Lead content above the 0.015 mg/L standard. The sample collected from the bubbler in Room 154 also had a Copper results above the 1.4 mg/L Action Level.

Based on the sampling results, the following actions are recommended:

- The bubbler in the Hallway between bathrooms by Room 22 and the bubbler in room 154 should be turned off and not used until they can be opened for inspection, cleaned of any line sediment, and re-sampled before using.
- Collect water samples from any remaining, active water taps to assess their condition.
- Consider implementing a program to shut-off and replace any drinking water fixture or appliance that is more than 30 years old or was installed before the 1986 Lead Ban took effect.

Report prepared by:



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

Name of Building: Allamuchy Township School
 Building Owner: Allamuchy Township Bd of Education

Date Collected: 26-Aug-16
 Sample Collected by: P. Cooper

Water Sampling Log

Sample No.	Sample Type	Type of Outlet	Manufacturer	Location	Results (mg/L)	
					Time	Cu Pb
082616-01	1st	Chiller	Elkay	Hallway, next to Room 120, left side	09:27	0.51 ND
082616-02	1st	Chiller	Elkay	Hallway, next to Room 120, right side	09:27	0.54 ND
082616-03	1st	Sink		Room 128	09:31	0.26 0.0063
082616-04	1st	Bubbler	Standard	Across room 12 (resource room)	09:32	0.51 0.013
082616-05	1st	Sink/Bubbler		Room 129	09:34	0.20 0.0039
082616-06	1st	Sink/Bubbler		Room 131A-Media specialist	09:35	0.076 0.0075
082616-07	1st	Bubbler		B/W Custodian 3 supply	09:35	0.26 0.0045
082616-08	1st	Sink		Front Room-Nurse	09:38	0.33 0.0047
082616-09	1st	Sink		Back Room-Nurse	09:38	0.65 0.0069
082616-10	1st	Bubbler		B/W Bathrooms by 202-left	09:40	0.26 0.017
082616-11	1st	Sink		Faculty Room	09:42	0.21 0.0023
082616-12	1st	Sink		Kitchen Prep Sink	09:43	0.30 0.0052
082616-13	1st	Sink/Bubbler		Kindergarten - 111	09:45	0.18 0.0021
082616-14	1st	Chiller	Elkay	Gym, next to 119	09:46	0.36 ND
082616-15	1st	Chiller	Elkay	Hallway, by custodial 156-left	09:49	0.60 ND
082616-16	1st	Chiller	Elkay	Hallway, by custodial 156-center right	09:49	0.38 ND
082616-17	1st	Chiller	Elkay	Hallway, by custodial 156-right	09:49	0.88 ND
082616-18	1st	Sink/Bubbler		Room 151	09:54	0.27 ND
082616-19	1st	Sink/Bubbler		Room 152	09:55	0.51 0.0052
082616-20	1st	Sink/Bubbler		Room 154	09:56	2.6 0.037
082616-21	1st	Bubbler	Halsey-Taylor	Outside	10:00	0.18 ND

Sample Type: 1st: First Draw sample collected after water has been unused at least 8 hours but not more than 18 hours.

PL: Water flushed through tap for at least 2 minutes

ND: means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0050 for Copper and 0.0020 mg/L for Lead.



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

September 1, 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:	2170639
Purchase Order:		Workorder ID:	16-130 Allamuchy BOE

Dear Mr. McGuinness:

Enclosed are the analytical results for samples received by the laboratory on Friday, August 26, 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.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

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: 2170639 16-130 Allamuchy BOE

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2170639001	082616-01	Drinking Water	8/26/2016 09:27	8/26/2016 20:40	Collected by Client
2170639002	082616-02	Drinking Water	8/26/2016 09:27	8/26/2016 20:40	Collected by Client
2170639003	082616-03	Drinking Water	8/26/2016 09:31	8/26/2016 20:40	Collected by Client
2170639004	082616-04	Drinking Water	8/26/2016 09:32	8/26/2016 20:40	Collected by Client
2170639005	082616-05	Drinking Water	8/26/2016 09:34	8/26/2016 20:40	Collected by Client
2170639006	082616-06	Drinking Water	8/26/2016 09:35	8/26/2016 20:40	Collected by Client
2170639007	082616-07	Drinking Water	8/26/2016 09:35	8/26/2016 20:40	Collected by Client
2170639008	082616-08	Drinking Water	8/26/2016 09:38	8/26/2016 20:40	Collected by Client
2170639009	082616-09	Drinking Water	8/26/2016 09:38	8/26/2016 20:40	Collected by Client
2170639010	082616-10	Drinking Water	8/26/2016 09:40	8/26/2016 20:40	Collected by Client
2170639011	082616-11	Drinking Water	8/26/2016 09:42	8/26/2016 20:40	Collected by Client
2170639012	082616-12	Drinking Water	8/26/2016 09:43	8/26/2016 20:40	Collected by Client
2170639013	082616-13	Drinking Water	8/26/2016 09:45	8/26/2016 20:40	Collected by Client
2170639014	082616-14	Drinking Water	8/26/2016 09:46	8/26/2016 20:40	Collected by Client
2170639015	082616-15	Drinking Water	8/26/2016 09:49	8/26/2016 20:40	Collected by Client
2170639016	082616-16	Drinking Water	8/26/2016 09:49	8/26/2016 20:40	Collected by Client
2170639017	082616-17	Drinking Water	8/26/2016 09:49	8/26/2016 20:40	Collected by Client
2170639018	082616-18	Drinking Water	8/26/2016 09:54	8/26/2016 20:40	Collected by Client
2170639019	082616-19	Drinking Water	8/26/2016 09:55	8/26/2016 20:40	Collected by Client
2170639020	082616-20	Drinking Water	8/26/2016 09:56	8/26/2016 20:40	Collected by Client
2170639021	082616-21	Drinking Water	8/26/2016 10:00	8/26/2016 20:40	Collected by Client

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SAMPLE SUMMARY

Workorder: 2170639 16-130 Allamuchy 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" parameters not listed under the header "Field Parameters" are preformed 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
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639001 Date Collected: 8/26/2016 09:27 Matrix: Drinking Water
Sample ID: 082616-01 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.51		mg/L	0.0050	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:05 ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:05 ZMC	A1

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: **2170639002** Date Collected: 8/26/2016 09:27 Matrix: Drinking Water
Sample ID: **082616-02** Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.54		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:08	ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:08	ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639003 Date Collected: 8/26/2016 09:31 Matrix: Drinking Water
Sample ID: 082616-03 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.26		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:10	ZMC	A1
Lead, Total	0.0063		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:10	ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: **2170639004** Date Collected: 8/26/2016 09:32 Matrix: Drinking Water
Sample ID: **082616-04** Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Entered By	Cntr
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METALS

Copper, Total	0.51		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:13	ZMC A1
Lead, Total	0.013		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:13	ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639005 Date Collected: 8/26/2016 09:34 Matrix: Drinking Water
Sample ID: 082616-05 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
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METALS

Copper, Total	0.20		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:16 ZMC A1
Lead, Total	0.0039		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:16 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639006 Date Collected: 8/26/2016 09:35 Matrix: Drinking Water
Sample ID: 082616-06 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.076		mg/L	0.0050	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:18 ZMC	A1
Lead, Total	0.0075		mg/L	0.0020	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:18 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639007 Date Collected: 8/26/2016 09:35 Matrix: Drinking Water
Sample ID: 082616-07 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Chtr
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METALS

Copper, Total	0.26		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:21 ZMC A1
Lead, Total	0.0045		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:21 ZMC A1

Ms. Shannon Butler
Project Coordinator

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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: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639008 Date Collected: 8/26/2016 09:38 Matrix: Drinking Water
Sample ID: 082616-08 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
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METALS

Copper, Total	0.33		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:34 ZMC A1
Lead, Total	0.0047		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:34 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639009 Date Collected: 8/26/2016 09:38 Matrix: Drinking Water
Sample ID: 082616-09 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Chtr
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METALS

Copper, Total	0.65		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:37 ZMC A1
Lead, Total	0.0069		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:37 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639010 Date Collected: 8/26/2016 09:40 Matrix: Drinking Water
Sample ID: 082616-10 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Entered By	Cntr
METALS									
Copper, Total	0.26		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:40	ZMC A1
Lead, Total	0.017		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:40	ZMC A1

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

ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639011 Date Collected: 8/26/2016 09:42 Matrix: Drinking Water
Sample ID: 082616-11 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.21		mg/L	0.0050	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:42 ZMC	A1
Lead, Total	0.0023		mg/L	0.0020	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:42 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639012 Date Collected: 8/26/2016 09:43 Matrix: Drinking Water
Sample ID: 082616-12 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.30		mg/L	0.0050	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:45 ZMC	A1
Lead, Total	0.0052		mg/L	0.0020	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:45 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639013 Date Collected: 8/26/2016 09:45 Matrix: Drinking Water
Sample ID: 082616-13 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
METALS									
Copper, Total	0.18		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:48	ZMC A1
Lead, Total	0.0021		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:48	ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639014 Date Collected: 8/26/2016 09:46 Matrix: Drinking Water
Sample ID: 082616-14 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.36		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:50 ZMC A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:50 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639015 Date Collected: 8/26/2016 09:49 Matrix: Drinking Water
Sample ID: 082616-15 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.60		mg/L	0.0050	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:53 ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:09 ZMC	8/31/16 04:53 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Altamuchy BOE

Lab ID: 2170639016 Date Collected: 8/26/2016 09:49 Matrix: Drinking Water
Sample ID: 082616-16 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.38		mg/L	0.0050	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:56 ZMC A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:09	ZMC	8/31/16 04:56 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639017 Date Collected: 8/26/2016 09:49 Matrix: Drinking Water
Sample ID: 082616-17 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.88		mg/L	0.0050	EPA 200.8	8/31/16 00:10 ZMC	8/31/16 05:04 ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:10 ZMC	8/31/16 05:04 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639018 Date Collected: 8/26/2016 09:54 Matrix: Drinking Water
Sample ID: 082616-18 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.27		mg/L	0.0050	EPA 200.8	8/31/16 00:10	ZMC	8/31/16 05:06
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:10	ZMC	8/31/16 05:06

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639019 Date Collected: 8/26/2016 09:55 Matrix: Drinking Water
Sample ID: 082616-19 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.51		mg/L	0.0050	EPA 200.8	8/31/16 00:10	ZMC	8/31/16 05:09 ZMC A1
Lead, Total	0.0052		mg/L	0.0020	EPA 200.8	8/31/16 00:10	ZMC	8/31/16 05:09 ZMC A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639020 Date Collected: 8/26/2016 09:56 Matrix: Drinking Water
Sample ID: 082616-20 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	2.6		mg/L	0.0025	EPA 200.8	8/31/16 08:00 JPS	9/1/16 03:55 ZMC	A1
Lead, Total	0.037		mg/L	0.0010	EPA 200.8	8/31/16 08:00 JPS	9/1/16 03:55 ZMC	A1

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ANALYTICAL RESULTS

Workorder: 2170639 16-130 Allamuchy BOE

Lab ID: 2170639021 Date Collected: 8/26/2016 10:00 Matrix: Drinking Water
Sample ID: 082616-21 Date Received: 8/26/2016 20:40

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.18		mg/L	0.0050	EPA 200.8	8/31/16 00:10 ZMC	8/31/16 05:11 ZMC	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	8/31/16 00:10 ZMC	8/31/16 05:11 ZMC	A1

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Middletown, PA 17057
P. 717-944-5541
E 717-944-1430

**CHAIN OF CUSTODY
REQUEST FOR ANALYSIS**

Middletown, PA 17057
0-312-0414 5541

(Aus) Environmental

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT

SAMPLE INSTRUCTIONS ON THE BACK									
ANALYSES/METHOD REQUESTED									
Client Name: RK Occupational & Environmental Analysis		Container Type		PL		No. of Coolers:		Initial	
Address: 401 St James Avenue		Container Size		250 ml				TDS	
Phillipsburg, NJ 08865		Preserves		HNO ₃				352	
Contact: PD McGuinness									
Phone#: 908-454-6316									
Project Name#: 16-130 Allamuchy BOE									
Bill To: Same									
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.									
Date Required: Standard <input type="checkbox"/>		Approved By: _____							
Email? X-Y PD.MCGUINNESS@ENTER.NET									
Fax? <input type="checkbox"/> Y No: _____									
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Sample #	Enter Number of Containers Per Sample or Field Results Below:	Courier Tracking #: _____			
082616-01	#XXXXXXXXXX	0927	G DW	X					
082616-02	#XXXXXXXXXX	0927	G DW	X					
082616-03	#XXXXXXXXXX	0931	G DW	X					
082616-04	#XXXXXXXXXX	0932	G DW	X					
082616-05	#XXXXXXXXXX	0934	G DW	X					
082616-06	#XXXXXXXXXX	0935	G DW	X					
082616-07	#XXXXXXXXXX	0935	G DW	X					
082616-08	#XXXXXXXXXX	0938	G DW	X					
082616-09	#XXXXXXXXXX	0938	G DW	X					
082616-10	#XXXXXXXXXX	0940	G DW	X					
LOGGED BY (signature): <i>J. L. Smith</i> DATE LOGGED: <i>08/26/16</i>									
REVIEWED BY (signature): <i>J. L. Smith</i> DATE REVIEWED: <i>08/26/16</i>									
Relinquished By Company Name		Date	Time	Received By / Company Name		Date	Time	State Samples Collected In	
1	Yank Chao	8/26/16	11:05	Paul Collins / ALS		8/26/16	11:05	NY	
3	Paul Collins	8/26/16	1:20P	O. Scott		8/26	1:20S	NJ	
5	O. Scott	8/26	2:40	John Scott		8/26	2:45S	PA	
7								NC	
9								MD	
EDDS: Format Type: X WV									

Thursday, September 01, 2016 5:58:30 PM

Page 25 of 27

ALS

Geld: C-Campagne - Matrik - A

EAR=Earthenware; DW=Drinking Water; GW=Groundwater; OI=Oil; OI+Other Liquid; SI=Slag; SO=Soil; SP=Mine; WW=Wastewater

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-1430
Environmental
FAX - ORIGINAL

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

Generated by ALS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT!

Client Name: RK Occupational & Environmental Analysis

Address: 401 St James Avenue

Phillipsburg, NJ 08865

Contact: PD McGinniss

Phone#: 908-454-6316

Project Name#: 16-130 Allamuchy BOE

Bill To: Same

TAT Normal Standard TAT is 10-12 business days.

Rush Subject to ALS approval and surcharges.

Date Required: Standard

Approved By:

Email?: X-Y PDMcGUNNESS@ENTER.NET

Fax?: -Y No:

Sample Description/Location

(as it will appear on the lab report)

Date

Time

Sample

Matrix

Method

Sample ID

COC #: 1039
of 3
ALSI Quote #:

Receipt Information (completed by Receiving Lab)

Cooler Temp: 45 Therm ID: 352

No. of Coolers: 1 Initial JES

Cooler Seats Present? Y

Received on Ice? Y

CSC Labels Complete/Accurate? Y

Cont. In Good Cond.? Y

Correct Containeness? Y

Correct Sample Volumes? Y

Correct Preservation? Y

Headspace/Volatiles? Y

Container Tracking #: 1039

Sample/COC Comments

Enter Number of Containers Per Sample or Field Results Below.

1

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Middletown, PA 17057
P: 717-944-5541
E: environmental@als.com

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADDED AREAS MUST BE COMPLETED BY THE CLIENT!

Client Name: RK Occupational & Environmental Analysis

Address: 401 St James Avenue

Phillipsburg, NJ 08865

Contact: PD McGuinness

Phone#: 908-464-6315

Project Name#: 16-130 Allentuchy BDE

Bill To: Same

TAT Normal Standard TAT is 10-12 business days.

Rush Subject to ALS approval and surcharges.

Date Required: Standard

Approved By:

Email: Y PDMGUINNESS@ENTER.NET

Fax? Y No:

Sample Description/Location

(as it will appear on the lab report)

Date

Time

Matrix

QC

Pb and Cu per Method 200.8

Enter Number of Containers Per Sample or Field Results Below.

08/26/16-21

#####

10:00

G DW

X

LOGGED BY (Signature): *Jeanne G. Geissel* Date Logged: 08/26/16 Time Logged: 11:05 AM

REVIEWED BY (Signature): *Jeanne G. Geissel* Date Reviewed: 08/26/16 Time Reviewed: 11:05 AM

Relinquished By / Company Name: *Goldenrod* Received By / Company Name: *PD McGuinness*

Date: 08/26/16 Time: 11:05 AM

Project Comments: *None*

LOGGED BY (Signature): *Jeanne G. Geissel* Date Logged: 08/26/16 Time Logged: 11:05 AM

REVIEWED BY (Signature): *Jeanne G. Geissel* Date Reviewed: 08/26/16 Time Reviewed: 11:05 AM

Relinquished By / Company Name: *Goldenrod* Received By / Company Name: *PD McGuinness*

Date: 08/26/16 Time: 11:05 AM

Date: 08/26/16 Time: 11:05 AM