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

December 7, 2017

Mr. Paul Herzer, M.E.M.
Carlisle Barracks
330 Engineer Ave.
Carlisle, PA 17013

Certificate of Analysis

Project Name:	**Public Water Supply Samples**	Workorder:	**2278929**
Purchase Order:	**382681 OP 00100**	Workorder ID:	**2017 Lead and Copper 11/20/17**

Dear Mr. Herzer, M.E.M.:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, November 22, 2017.

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 Kelli A Snow (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

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

Kelli Snow

Kelli A Snow
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2278929001	Distribution 103B	Drinking Water	11/20/2017 09:00	11/22/2017 18:38	Collected by Client
2278929002	Distribution 104B	Drinking Water	11/20/2017 09:05	11/22/2017 18:38	Collected by Client
2278929003	Distribution 106B	Drinking Water	11/20/2017 09:10	11/22/2017 18:38	Collected by Client
2278929004	Distribution 107A	Drinking Water	11/20/2017 09:15	11/22/2017 18:38	Collected by Client
2278929005	Distribution 108B	Drinking Water	11/20/2017 09:17	11/22/2017 18:38	Collected by Client
2278929006	Distribution 110A	Drinking Water	11/20/2017 09:20	11/22/2017 18:38	Collected by Client
2278929007	Distribution 110B	Drinking Water	11/20/2017 09:22	11/22/2017 18:38	Collected by Client
2278929008	Distribution 111B	Drinking Water	11/20/2017 09:25	11/22/2017 18:38	Collected by Client
2278929009	Distribution 112B	Drinking Water	11/20/2017 09:30	11/22/2017 18:38	Collected by Client
2278929010	Distribution 113B	Drinking Water	11/20/2017 09:35	11/22/2017 18:38	Collected by Client
2278929011	Distribution 101A	Drinking Water	11/20/2017 09:40	11/22/2017 18:38	Collected by Client
2278929012	Distribution 101B	Drinking Water	11/20/2017 09:45	11/22/2017 18:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 2278929 2017 Lead and Copper 11/20/17

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 incurbator 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: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929001** Date Collected: 11/20/2017 09:00 Matrix: Drinking Water

Sample ID: **Distribution 103B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.26		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:43	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:43	MO	A1

Kelli Snow

Kelli A Snow
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929002** Date Collected: 11/20/2017 09:05 Matrix: Drinking Water

Sample ID: **Distribution 104B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.25		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:52	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:52	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID:	**2278929003**	Date Collected:	11/20/2017 09:10	Matrix:	Drinking Water
Sample ID:	**Distribution 106B**	Date Received:	11/22/2017 18:38		

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.24		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:54	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:54	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929004** Date Collected: 11/20/2017 09:15 Matrix: Drinking Water

Sample ID: **Distribution 107A** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.23		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:57	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 07:57	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929005** Date Collected: 11/20/2017 09:17 Matrix: Drinking Water

Sample ID: **Distribution 108B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.23		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:00	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:00	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929006** Date Collected: 11/20/2017 09:20 Matrix: Drinking Water

Sample ID: **Distribution 110A** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.22		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:03	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:03	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929007** Date Collected: 11/20/2017 09:22 Matrix: Drinking Water
Sample ID: **Distribution 110B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.23		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:06	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:06	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929008** Date Collected: 11/20/2017 09:25 Matrix: Drinking Water

Sample ID: **Distribution 111B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.22		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:08	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:08	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929009** Date Collected: 11/20/2017 09:30 Matrix: Drinking Water

Sample ID: **Distribution 112B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.22		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:17	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:17	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929010** Date Collected: 11/20/2017 09:35 Matrix: Drinking Water

Sample ID: **Distribution 113B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.22		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:19	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:19	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929011** Date Collected: 11/20/2017 09:40 Matrix: Drinking Water

Sample ID: **Distribution 101A** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.21		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:22	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:22	MO	A1

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ANALYTICAL RESULTS

Workorder: 2278929 2017 Lead and Copper 11/20/17

Lab ID: **2278929012** Date Collected: 11/20/2017 09:45 Matrix: Drinking Water

Sample ID: **Distribution 101B** Date Received: 11/22/2017 18:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
METALS										
Copper, Total	0.22		mg/L	0.0050	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:25	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	12/6/17 13:29	KXK	12/7/17 08:25	MO	A1

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

Page 1 of 2

Courier:

Tracking #:

227892.9

Co. Name:

Contact (Report to): Paul Herzer, Art Baldoni

Phone: 7172454661

Address: USAG Carlisle Barracks, 330 Engineer Ave, Carlisle PA 17013

Bill to (if different than Report to):

PO#:

Project Name/#:

ALS Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALS approval and surcharges.

Date Required:

Approved By:

Email? -Y

Fax? -Y No.:

***Container Type: PL

***Container Size:

*** Preservative:

ANALYSES/METHOD REQUESTED: Pb + Cu

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1	103B		11-20	0900			1
2	104B		11-20	0905			1
3	106B		11-20	0910			1
4	107A		11-20	0915			1
5	108B		11-20	0917			1
6	110A		11-20	0920			1
7	110B		11-20	0922			1
8	111B		11-20	0925			1

(completed by Sample Receiving)

Performed by: PM

Cooler Temp: 15 °C

Therm. ID: 402

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1	Y	Y	Y	N	
2	N	N	N	N	
3	Y	N	Y	Y	Y

	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
1	Y	N	Y	Y	Y
2	N	N	N	N	N
3	Y	N	Y	Y	Y

SAMPLED BY (Please Print):

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	22 Nov	1206	2 Jeremy Dunn ALS	11-22-17	1205
3 Jeremy Dunn ALS	11-22-17	1838	4 [signature] ALS	11/22	1838
5			6		
7			8		
9			10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; other

EDDs Required? If yes, format type:

SDWA Forms? yes / yes / yes / yes

State Samples Collected In? MD / NJ / NY / PA

Other

DOD Criteria Required?

ALS FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite

**Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

ALS Environmental

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

Courier:

Tracking #: 22 78929

Co. Name:

Contact (Report to):

Phone:

Address: Carlisle Barracks 717 245 4811

Bill to (if different than Report to):

PO#:

Project Name/#:

ALS Quote #:

TAT: ☐ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.

Date Required:

Approved By:

Email? ☐ -Y

Fax? ☐ -Y No.:

	***Container Type	PL									
	***Container Size										
	*** Preservative										
ANALYSES/METHOD REQUESTED		Pb & Cu									

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis									
1 112B		11-20	0930			1									
2 113B		11-20	0935			1									
3 101A		11-20	0940			1									
4 101B		11-20	0945			1									
5															
6															
7															
8															

Receipt Information (completed by Sample Receiving)

Performed by: [illegible]

Cooler Temp: 15 °C

Therm. ID: 402

No. of Coolers:

Notes:

Circle appropriate Y or N.	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?
	Y	Y	Y	Y

Circle appropriate Y or N.	Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	N	N	N	N	N
	Y	Y	Y	Y	Y

SAMPLED BY (Please Print):

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	22 Nov	1205	2 Jeremy Dunn ALS	11-22-17	1205
3 Jeremy Dunn ALS	11-22-17	1838	4 [signature] ALS	11/22	1838
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ other

SDWA Forms? ⇒ yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☒ Other

EDDs Required? ☐ If yes, format type:

DOD Criteria Required?

ALS FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

ALS