ALS Environmental

301 Fulling Mill Road - 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: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

September 30, 2020

Mr. Chris Umbarger
Culligan Mid-Atlantic
8290 Miller Park Drive
New Freedom, PA 17349

Certificate of Analysis

Project Name:	**DW: BASIC RESIDENTIAL**	Workorder:	**3130961**
Purchase Order:		Workorder ID:	**AJ Billig**

Dear Mr. Umbarger:

Enclosed are the analytical results for samples received by the laboratory on Monday, September 28, 2020.

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 Jessica Lee Smith (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.

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

CC: Mr. Sean Webb , Mr. Ralph Emig

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

Jessica Lee Smith
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3130961 AJ Billig

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3130961001	4147 U Way House	Drinking Water	9/28/2020 15:30	9/28/2020 17:30	Collected by Client

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SAMPLE SUMMARY

Workorder: 3130961 AJ Billig

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.
-- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

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: 3130961 AJ Billig

Lab ID: **3130961001** Date Collected: 9/28/2020 15:30 Matrix: Drinking Water

Sample ID: **4147 U Way House** Date Received: 9/28/2020 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
MICROBIOLOGY										
E. Coli	ND		MPN/100mL	1	S9223B-04	9/28/20 17:51	TXL	9/29/20 19:41	MBR	A
Total Coliform	ND	1	MPN/100mL	1	S9223B-04	9/28/20 17:51	TXL	9/29/20 19:41	MBR	A

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ANALYTICAL RESULTS

Workorder: 3130961 AJ Billig

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3130961001	1	4147 U Way House	S9223B-04	Total Coliform

The Total Coliform analysis indicates that the sample does not exceed the drinking water limit established by the USEPA for Total Coliform and is considered to be bacteriologically potable. Zero Total Coliform colonies were detected.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3130961 AJ Billig

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3130961001	4147 U Way House	S9223B-04	S9223B-04	

301 Fulling Mill Rd
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

* 3 1 3 0 9 6 1 *

of

Client Name: Culligan Mid Atlantic

Address: 8290 Miller Park Drive
New Freedom, PA 17349

Contact: Ralph Emig

Phone#: 717-479-5331

Project Name/#: AJ Billig

Bill To: Culligan Mid Atlantic

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

Date Required: 9/30/20 Approved?

Email? ☒-Y

Fax? ☐-Y No.:

rmation
.eceiving Lab)

W.O. Temp: 25 Therm ID: 401

Courier/Tracking #:

Purchase Order #:

Project Comments:

ALS Field Services: ☐ Pickup ☐ Labor
☐ Composite Sampling ☐ Rental Equipment
Other:

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED									Sample/COC Comments
									TC, EC		TS 9/8 20							
									Enter Number of Containers Per Sample or Field Results Below.									
1	4148 Old Way Haven Deglace	9/29/20	15:30						1									
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

SAMPLED BY (Please Print): Tyler Robinson

Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 Tyler Robinson	9/28	16:00	2 Blake Heckman	9/28	1600
3 Blak Heckman	9/28	17:30	4	9/28/20	1730
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOD ☐

Special Processing: USACE ☐ Navy ☐ ☐

State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ NC ☐ other

Reportable to PADEP? Yes ☐ No ☐

PWSID #

Sample Disposal: Lab ☐ Special ☐

EDDS: Format Type

* 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

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, MIDDLETOWN, PA 17057

Rev 11/18

301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client: Cullisan MA | Work Order #: 3130961 | Initials: TS | Date: 9/28/20

1. Were airbills / tracking numbers present and recorded?	(NONE)	YES	NO
Tracking number:			
2. Are Custody Seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody Seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present?		(YES)	NO
5. Are the COC and bottle labels complete, legible and in agreement?		YES	(NO)
5a. Does the COC contain sample locations?		(YES)	NO
5b. Does the COC contain date and time of sample collection for all samples?		(YES)	NO
5c. Does the COC contain sample collectors name?		(YES)	NO
5d. Does the COC note the type(s) of preservation for all bottles?		YES	(NO)
5e. Does the COC note the number of bottles submitted for each sample?		YES	(NO)
5f. Does the COC note the type of sample, composite or grab?		YES	(NO)
5g. Does the COC note the matrix of the sample(s)?		YES	(NO)
6. Are all aqueous samples requiring preservation preserved correctly?[1]	N/A	(YES)	NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?		(YES)	NO
8. Are all samples within holding times for the requested analyses?		(YES)	NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)		(YES)	NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?	(N/A)	YES	NO
11. Were the samples received on ice?		YES	(NO)
12. Were sample temperatures measured at 0.0-6.0°C		YES	(NO)
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below		(YES)	NO
13a. Are the samples required for SDWA compliance reporting?	N/A	YES	(NO)
13b. Did the client provide a SDWA PWS ID#?	N/A	YES	NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?	N/A	YES	NO
13d. Did the client provide the SDWA sample location ID/Description?	N/A	YES	NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?	N/A	YES	NO

Cooler #: _____

Temperature (°C): 2.5

Thermometer ID: 401

Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

[1]Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020