

March 17, 2020

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name:	UST Testing	Workorder:	3090735
Purchase Order:		Workorder ID:	United 03/05/20

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Friday, March 6, 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.

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



Jessica Lee Smith
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: 3090735 United 03/05/20

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3090735001	MW-13	Ground Water	3/5/2020 10:30	3/6/2020 21:40	Mr. John VanWagenen
3090735002	MW-14	Ground Water	3/5/2020 11:15	3/6/2020 21:40	Mr. John VanWagenen
3090735003	MW-15	Ground Water	3/5/2020 16:30	3/6/2020 21:40	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3090735 United 03/05/20

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 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.
- 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: 3090735 United 03/05/20

Lab ID: **3090735001**

Date Collected: 3/5/2020 10:30

Matrix: Ground Water

Sample ID: **MW-13**

Date Received: 3/6/2020 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
Methyl t-Butyl Ether	20.0		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/11/20 05:03	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/11/20 05:03	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:03	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	77.6		%	62 - 133	SW846 8260B			3/11/20 05:03	PDK	A
4-Bromofluorobenzene (S)	98.4		%	79 - 114	SW846 8260B			3/11/20 05:03	PDK	A
Dibromofluoromethane (S)	87.1		%	78 - 116	SW846 8260B			3/11/20 05:03	PDK	A
Toluene-d8 (S)	85.3		%	76 - 127	SW846 8260B			3/11/20 05:03	PDK	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3090735 United 03/05/20

Lab ID: **3090735002**

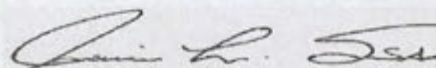
Date Collected: 3/5/2020 11:15

Matrix: Ground Water

Sample ID: **MW-14**

Date Received: 3/6/2020 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/11/20 05:25	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/11/20 05:25	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/11/20 05:25	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	77.5		%	62 - 133	SW846 8260B			3/11/20 05:25	PDK	A
4-Bromofluorobenzene (S)	99.4		%	79 - 114	SW846 8260B			3/11/20 05:25	PDK	A
Dibromofluoromethane (S)	89.1		%	78 - 116	SW846 8260B			3/11/20 05:25	PDK	A
Toluene-d8 (S)	89.3		%	76 - 127	SW846 8260B			3/11/20 05:25	PDK	A



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ANALYTICAL RESULTS

Workorder: 3090735 United 03/05/20

Lab ID: 3090735003

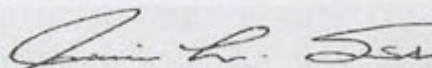
Date Collected: 3/5/2020 16:30

Matrix: Ground Water

Sample ID: MW-15

Date Received: 3/6/2020 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	6	ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
Ethylbenzene	ND		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
Isopropylbenzene	ND		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
Methyl t-Butyl Ether	3390		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
Naphthalene	ND		ug/L	100	SW846 8260B			3/15/20 19:11	JTH	B
Toluene	ND		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
Total Xylenes	ND		ug/L	150	SW846 8260B			3/15/20 19:11	JTH	B
1,2,4-Trimethylbenzene	ND		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
1,3,5-Trimethylbenzene	ND		ug/L	50.0	SW846 8260B			3/15/20 19:11	JTH	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B			3/15/20 19:11	JTH	B
4-Bromofluorobenzene (S)	96.8		%	79 - 114	SW846 8260B			3/15/20 19:11	JTH	B
Dibromofluoromethane (S)	97.9		%	78 - 116	SW846 8260B			3/15/20 19:11	JTH	B
Toluene-d8 (S)	105		%	76 - 127	SW846 8260B			3/15/20 19:11	JTH	B



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3090735 United 03/05/20

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3090735003	6	MW-15	SW846 8260B	Benzene

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3090735 United 03/05/20

Lab ID	Sample ID	Analysis Method	Prep Method
3090735001	MW-13	SW846 8260B	
3090735002	MW-14	SW846 8260B	
3090735003	MW-15	SW846 8260B	

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301 Fulling Mill Road
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.

Client Name: <i>Courtesy Env. Assoc.</i>		Container Type: <i>9/40</i>	CC of	
Address: <i>PO Box 224 St. Peters, PA 19470</i>		Container Size: <i>Vial</i>	A	
Contact: <i>John Van Wageningen</i>		Preserve: <i>HCL</i>	3 0 9 0 7 3 5 *	
Phone#: <i>610-469-6540</i>		W.O. Temp: <i>2</i> Therm ID: <i>50</i>		
Project Name/ID: <i>United</i>		Analyst Initials: _____		
Bill To: <i>same</i>		Courier/Tracking #: _____		
TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.		Purchase Order #: _____		
Date Required: _____		Project Comments: _____		
Email? ☐ -Y ☐ -N		ALS Field Services: ☐ Pickup ☐ Labor		
Fax? ☐ -Y ☐ -N		☐ Composite Sampling ☐ Rental Equipment		
Other: _____		Other: _____		
Sample Description/Location (as it will appear on the lab report)		Enter Number of Containers Per Sample or Field Results Below.		
1	<i>MW-13</i>	<i>3/5/20</i>	<i>16:30</i>	<i>6</i>
2	<i>MW-14</i>	<i>1/11</i>	<i>11:15</i>	<i>2</i>
3	<i>MW-15</i>	<i>6</i>	<i>16:30</i>	<i>2</i>
4				
5				
6				
7				
8				
9				
10				
SAMPLER COMMENTS: <i>John Van Wageningen</i>		Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOO		
Relinquished By/Company Name: <i>John Van Wageningen</i>		Special Processing: ☐ USACE ☐ NY ☐ NJ ☐ PA		
1	<i>3/20/20</i>	<i>16:30</i>	<i>2</i>	<i>Chas Faern</i>
3	<i>3/20/20</i>	<i>11:43</i>	<i>4</i>	<i>COMMON COURIER/ALS COURIER</i>
5	<i>3/20/20</i>	<i>11:43</i>	<i>6</i>	<i>3/6/2020</i>
7			<i>8</i>	<i>2/20</i>
9			<i>10</i>	
* G=Grab; C=Composite		EODS: Formal Type: _____		
**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sediment; SO=Soil; WP=Water; WW=Wastewater		ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Middletown, PA 17057		



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

Condition of Sample Receipt Form

Client: Coventry Env. Work Order #: 3090735 Initials: qu Date: 3/7/2020

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?..... 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 _____
Thermometer ID: 407 _____
Radiological (µCi): _____

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

¹Final 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

February 24, 2020

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name:	UST Testing	Workorder:	3086756
Purchase Order:		Workorder ID:	United

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 14, 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.

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Jessica Lee Smith
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SAMPLE SUMMARY

Workorder: 3086756 United

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3086756001	MW-4	Ground Water	2/12/2020 10:00	2/14/2020 16:50	Mr. John VanWagenen
3086756002	MW-5	Ground Water	2/12/2020 10:30	2/14/2020 16:50	Mr. John VanWagenen
3086756004	MW-9	Ground Water	2/12/2020 11:30	2/14/2020 16:50	Mr. John VanWagenen
3086756005	MW-10	Ground Water	2/12/2020 12:00	2/14/2020 16:50	Mr. John VanWagenen
3086756006	MW-11	Ground Water	2/12/2020 12:30	2/14/2020 16:50	Mr. John VanWagenen
3086756007	MW-12	Ground Water	2/12/2020 13:30	2/14/2020 16:50	Mr. John VanWagenen
3086756008	MW-13	Ground Water	2/12/2020 14:00	2/14/2020 16:50	Mr. John VanWagenen
3086756009	MW-14	Ground Water	2/12/2020 15:00	2/14/2020 16:50	Mr. John VanWagenen
3086756010	MW-15	Ground Water	2/12/2020 18:00	2/14/2020 16:50	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3086756 United

Notes

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MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
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RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
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(S)	Surrogate Compound
NC	Not Calculated
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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756001

Date Collected: 2/12/2020 10:00

Matrix: Ground Water

Sample ID: MW-4

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6330		ug/L	100	SW846 8260B			2/21/20 14:29	DPC	B
Ethylbenzene	1630		ug/L	100	SW846 8260B			2/21/20 14:29	DPC	B
Isopropylbenzene	67.6		ug/L	5.0	SW846 8260B			2/20/20 11:30	PDK	A
Methyl t-Butyl Ether	657		ug/L	5.0	SW846 8260B			2/20/20 11:30	PDK	A
Naphthalene	179		ug/L	10.0	SW846 8260B			2/20/20 11:30	PDK	A
Toluene	970		ug/L	5.0	SW846 8260B			2/20/20 11:30	PDK	A
Total Xylenes	5380		ug/L	300	SW846 8260B			2/21/20 14:29	DPC	B
1,2,4-Trimethylbenzene	852		ug/L	5.0	SW846 8260B			2/20/20 11:30	PDK	A
1,3,5-Trimethylbenzene	372		ug/L	5.0	SW846 8260B			2/20/20 11:30	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	97.7		%	62 - 133	SW846 8260B			2/21/20 14:29	DPC	B
1,2-Dichloroethane-d4 (S)	96.1		%	62 - 133	SW846 8260B			2/20/20 11:30	PDK	A
4-Bromofluorobenzene (S)	97.2		%	79 - 114	SW846 8260B			2/20/20 11:30	PDK	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B			2/21/20 14:29	DPC	B
Dibromofluoromethane (S)	99		%	78 - 116	SW846 8260B			2/21/20 14:29	DPC	B
Dibromofluoromethane (S)	93		%	78 - 116	SW846 8260B			2/20/20 11:30	PDK	A
Toluene-d8 (S)	90.9		%	76 - 127	SW846 8260B			2/20/20 11:30	PDK	A
Toluene-d8 (S)	93.8		%	76 - 127	SW846 8260B			2/21/20 14:29	DPC	B



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756002

Date Collected: 2/12/2020 10:30

Matrix: Ground Water

Sample ID: MW-5

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Methyl t-Butyl Ether	4.9		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 09:37	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/20/20 09:37	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:37	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B			2/20/20 09:37	PDK	A
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			2/20/20 09:37	PDK	A
Dibromofluoromethane (S)	94.4		%	78 - 116	SW846 8260B			2/20/20 09:37	PDK	A
Toluene-d8 (S)	91.1		%	76 - 127	SW846 8260B			2/20/20 09:37	PDK	A



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756004

Date Collected: 2/12/2020 11:30

Matrix: Ground Water

Sample ID: MW-9

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	17.8		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Ethylbenzene	5.4		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 09:59	PDK	A
Toluene	30.1		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Total Xylenes	58.2		ug/L	3.0	SW846 8260B			2/20/20 09:59	PDK	A
1,2,4-Trimethylbenzene	8.1		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
1,3,5-Trimethylbenzene	4.5		ug/L	1.0	SW846 8260B			2/20/20 09:59	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			2/20/20 09:59	PDK	A
4-Bromofluorobenzene (S)	98.2		%	79 - 114	SW846 8260B			2/20/20 09:59	PDK	A
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			2/20/20 09:59	PDK	A
Toluene-d8 (S)	91.8		%	76 - 127	SW846 8260B			2/20/20 09:59	PDK	A



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756005

Date Collected: 2/12/2020 12:00

Matrix: Ground Water

Sample ID: MW-10

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 10:22	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/20/20 10:22	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:22	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			2/20/20 10:22	PDK	A
4-Bromofluorobenzene (S)	98.8		%	79 - 114	SW846 8260B			2/20/20 10:22	PDK	A
Dibromofluoromethane (S)	95.7		%	78 - 116	SW846 8260B			2/20/20 10:22	PDK	A
Toluene-d8 (S)	90.6		%	76 - 127	SW846 8260B			2/20/20 10:22	PDK	A



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Report ID: 3086756 - 2/24/2020

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6/3/2020 12:54:01 PM

ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756006

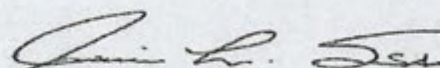
Date Collected: 2/12/2020 12:30

Matrix: Ground Water

Sample ID: MW-11

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	123		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Ethylbenzene	5.5		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Methyl t-Butyl Ether	8.1		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 10:45	PDK	A
Toluene	49.4		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Total Xylenes	41.1		ug/L	3.0	SW846 8260B			2/20/20 10:45	PDK	A
1,2,4-Trimethylbenzene	3.3		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
1,3,5-Trimethylbenzene	3.9		ug/L	1.0	SW846 8260B			2/20/20 10:45	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	98		%	62 - 133	SW846 8260B			2/20/20 10:45	PDK	A
4-Bromofluorobenzene (S)	98.3		%	79 - 114	SW846 8260B			2/20/20 10:45	PDK	A
Dibromofluoromethane (S)	97.5		%	78 - 116	SW846 8260B			2/20/20 10:45	PDK	A
Toluene-d8 (S)	91.8		%	76 - 127	SW846 8260B			2/20/20 10:45	PDK	A



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756007

Date Collected: 2/12/2020 13:30

Matrix: Ground Water

Sample ID: MW-12

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	541		ug/L	50.0	SW846 8260B			2/21/20 14:52	DPC	B
Ethylbenzene	16.5		ug/L	1.0	SW846 8260B			2/20/20 11:07	PDK	A
Isopropylbenzene	8.2		ug/L	1.0	SW846 8260B			2/20/20 11:07	PDK	A
Methyl t-Butyl Ether	1250		ug/L	50.0	SW846 8260B			2/21/20 14:52	DPC	B
Naphthalene	4.0		ug/L	2.0	SW846 8260B			2/20/20 11:07	PDK	A
Toluene	58.9		ug/L	1.0	SW846 8260B			2/20/20 11:07	PDK	A
Total Xylenes	43.6		ug/L	3.0	SW846 8260B			2/20/20 11:07	PDK	A
1,2,4-Trimethylbenzene	5.8		ug/L	1.0	SW846 8260B			2/20/20 11:07	PDK	A
1,3,5-Trimethylbenzene	2.8		ug/L	1.0	SW846 8260B			2/20/20 11:07	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	97.3		%	62 - 133	SW846 8260B			2/21/20 14:52	DPC	B
1,2-Dichloroethane-d4 (S)	96.9		%	62 - 133	SW846 8260B			2/20/20 11:07	PDK	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B			2/21/20 14:52	DPC	B
4-Bromofluorobenzene (S)	99.3		%	79 - 114	SW846 8260B			2/20/20 11:07	PDK	A
Dibromofluoromethane (S)	94.1		%	78 - 116	SW846 8260B			2/20/20 11:07	PDK	A
Dibromofluoromethane (S)	96.7		%	78 - 116	SW846 8260B			2/21/20 14:52	DPC	B
Toluene-d8 (S)	94.6		%	76 - 127	SW846 8260B			2/21/20 14:52	DPC	B
Toluene-d8 (S)	93		%	76 - 127	SW846 8260B			2/20/20 11:07	PDK	A



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756008

Date Collected: 2/12/2020 14:00

Matrix: Ground Water

Sample ID: MW-13

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Methyl t-Butyl Ether	2.8		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 08:51	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/20/20 08:51	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 08:51	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	98.2		%	62 - 133	SW846 8260B			2/20/20 08:51	PDK	A
4-Bromofluorobenzene (S)	99.6		%	79 - 114	SW846 8260B			2/20/20 08:51	PDK	A
Dibromofluoromethane (S)	92.4		%	78 - 116	SW846 8260B			2/20/20 08:51	PDK	A
Toluene-d8 (S)	92.6		%	76 - 127	SW846 8260B			2/20/20 08:51	PDK	A



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756009

Date Collected: 2/12/2020 15:00

Matrix: Ground Water

Sample ID: MW-14

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/20/20 09:14	PDK	B
Toluene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/20/20 09:14	PDK	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/20/20 09:14	PDK	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			2/20/20 09:14	PDK	B
4-Bromofluorobenzene (S)	98.1		%	79 - 114	SW846 8260B			2/20/20 09:14	PDK	B
Dibromofluoromethane (S)	95.3		%	78 - 116	SW846 8260B			2/20/20 09:14	PDK	B
Toluene-d8 (S)	91.7		%	76 - 127	SW846 8260B			2/20/20 09:14	PDK	B



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ANALYTICAL RESULTS

Workorder: 3086756 United

Lab ID: 3086756010

Date Collected: 2/12/2020 18:00

Matrix: Ground Water

Sample ID: MW-15

Date Received: 2/14/2020 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2290		ug/L	100	SW846 8260B			2/21/20 15:15	DPC	A
Ethylbenzene	231		ug/L	100	SW846 8260B			2/21/20 15:15	DPC	A
Isopropylbenzene	12.7		ug/L	1.0	SW846 8260B			2/20/20 13:01	DPC	A
Methyl t-Butyl Ether	5470		ug/L	100	SW846 8260B			2/21/20 15:15	DPC	A
Naphthalene	77.0		ug/L	2.0	SW846 8260B			2/20/20 13:01	DPC	A
Toluene	76.0		ug/L	1.0	SW846 8260B			2/20/20 13:01	DPC	A
Total Xylenes	478		ug/L	3.0	SW846 8260B			2/20/20 13:01	DPC	A
1,2,4-Trimethylbenzene	84.7		ug/L	1.0	SW846 8260B			2/20/20 13:01	DPC	A
1,3,5-Trimethylbenzene	20.7		ug/L	1.0	SW846 8260B			2/20/20 13:01	DPC	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	92.4		%	62 - 133	SW846 8260B			2/20/20 13:01	DPC	A
1,2-Dichloroethane-d4 (S)	96.7		%	62 - 133	SW846 8260B			2/21/20 15:15	DPC	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B			2/21/20 15:15	DPC	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			2/20/20 13:01	DPC	A
Dibromofluoromethane (S)	90.7		%	78 - 116	SW846 8260B			2/20/20 13:01	DPC	A
Dibromofluoromethane (S)	97.5		%	78 - 116	SW846 8260B			2/21/20 15:15	DPC	A
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B			2/20/20 13:01	DPC	A
Toluene-d8 (S)	93.8		%	76 - 127	SW846 8260B			2/21/20 15:15	DPC	A



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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3086756 United

Lab ID	Sample ID	Analysis Method	Prep Method
3086756001	MW-4	SW846 8260B	
3086756002	MW-5	SW846 8260B	
3086756004	MW-9	SW846 8260B	
3086756005	MW-10	SW846 8260B	
3086756006	MW-11	SW846 8260B	
3086756007	MW-12	SW846 8260B	
3086756008	MW-13	SW846 8260B	
3086756009	MW-14	SW846 8260B	
3086756010	MW-15	SW846 8260B	

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301 Filling Mill Road
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.



Client Name: <u>Community G.W. - ASJSC, Inc.</u>		Container Type: <u>4gal</u>	Date Collected: <u>2/24/20</u>		Time Collected: <u>10:00</u>		Date Received: <u>2/24/20</u>		Time Received: <u>09:00</u>		Company Name: <u>ALS</u>		Date: <u>2/24/20</u>		Time: <u>09:00</u>	
Address: <u>PO Box 224</u> <u>St. Peters, PA 19370</u>		Container Size: <u>4gal</u>	Date Collected: <u>2/24/20</u>		Time Collected: <u>10:00</u>		Date Received: <u>2/24/20</u>		Time Received: <u>09:00</u>		Company Name: <u>ALS</u>		Date: <u>2/24/20</u>		Time: <u>09:00</u>	
Contact: <u>John Chan</u>		Permit No: <u>ACL</u>	Date Collected: <u>2/24/20</u>		Time Collected: <u>10:00</u>		Date Received: <u>2/24/20</u>		Time Received: <u>09:00</u>		Company Name: <u>ALS</u>		Date: <u>2/24/20</u>		Time: <u>09:00</u>	
Phone: <u>610-469-6540</u>																
Project Name: <u>United</u>																
Bill To: <u>same</u>																
TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.																
Date Required: <u>2/24/20</u>																
Email: <u>John Chan</u>																
Fax: <u>610-469-6540</u>																
Sample Description/Location (as it will appear on the lab report)		Date Collected		Time Collected		Date Received		Time Received		Company Name		Date		Time		
1 <u>MW-4</u>		<u>2/24/20</u>		<u>10:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
2 <u>MW-5</u>		<u>2/24/20</u>		<u>10:30</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
3 <u>MW-7</u>		<u>2/24/20</u>		<u>11:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
4 <u>MW-9</u>		<u>2/24/20</u>		<u>11:30</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
5 <u>MW-10</u>		<u>2/24/20</u>		<u>12:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
6 <u>MW-11</u>		<u>2/24/20</u>		<u>12:30</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
7 <u>MW-12</u>		<u>2/24/20</u>		<u>13:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
8 <u>MW-13</u>		<u>2/24/20</u>		<u>14:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
9 <u>MW-14</u>		<u>2/24/20</u>		<u>15:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
10 <u>MW-15</u>		<u>2/24/20</u>		<u>15:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
SAMPLED BY (Please Print): <u>John Chan</u>																
Relinquished By (Company Name): <u>John Chan</u>																
1 <u>John Chan</u>		<u>2/24/20</u>		<u>09:00</u>		<u>2/24/20</u>		<u>09:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>09:00</u>		
3 <u>John Chan</u>		<u>2/24/20</u>		<u>16:00</u>		<u>2/24/20</u>		<u>16:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>16:00</u>		
5 <u>John Chan</u>		<u>2/24/20</u>		<u>16:00</u>		<u>2/24/20</u>		<u>16:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>16:00</u>		
7 <u>John Chan</u>		<u>2/24/20</u>		<u>16:00</u>		<u>2/24/20</u>		<u>16:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>16:00</u>		
9 <u>John Chan</u>		<u>2/24/20</u>		<u>16:00</u>		<u>2/24/20</u>		<u>16:00</u>		<u>ALS</u>		<u>2/24/20</u>		<u>16:00</u>		
ANALYSES/METHOD REQUESTED																
ALS Field Services: ☐ Pickup ☐ Labor ☐ Composting Sampling ☐ Rental Equipment Other: _____																
Sample/COC Comments																
W.O. Temp: <u>4</u> Therm ID: <u>111</u> Analyst Initials: _____ Courier/Tracking #: _____ Purchase Order #: _____ Project Comments: _____																
ALS Shipping Address: 301 Filling Mill Road, Middletown, PA 17057																



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

Condition of Sample Receipt Form

Client: Coventry Work Order #: 3086756 Initials: LS Date: 2/14/2020

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 YES NO
5. Are the COC and bottle labels complete, legible and in agreement? YES YES NO
- 5a. Does the COC contain sample locations? YES YES NO
- 5b. Does the COC contain date and time of sample collection for all samples? YES YES NO
- 5c. Does the COC contain sample collectors name? YES YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles? YES YES NO
- 5e. Does the COC note the number of bottles submitted for each sample? YES YES NO
- 5f. Does the COC note the type of sample, composite or grab? YES YES NO
- 5g. Does the COC note the matrix of the sample(s)? YES YES NO
6. Are all aqueous samples requiring preservation preserved correctly? N/A YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume? YES YES NO
8. Are all samples within holding times for the requested analyses? YES YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.) YES 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 YES NO
12. Were sample temperatures measured at 0.0-6.0°C? YES 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): 4 _____

Thermometer ID: 441 _____

Radiological (µCi): _____

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

³Final 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

January 10, 2020

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name: UST Testing	Workorder: 3079136
Purchase Order:	Workorder ID: UTS

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, January 7, 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.

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



Jessica Lee Smith
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: 3079136 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3079136001	MW-5	Ground Water	1/6/2020 11:00	1/7/2020 20:00	Mr. John VanWagenen
3079136002	MW-8	Ground Water	1/6/2020 12:00	1/7/2020 20:00	Mr. John VanWagenen
3079136003	MW-9	Ground Water	1/6/2020 15:30	1/7/2020 20:00	Mr. John VanWagenen
3079136004	MW-4	Ground Water	1/6/2020 13:30	1/7/2020 20:00	Mr. John VanWagenen
3079136005	MW-10	Ground Water	1/6/2020 11:30	1/7/2020 20:00	Mr. John VanWagenen
3079136006	MW-11	Ground Water	1/6/2020 12:00	1/7/2020 20:00	Mr. John VanWagenen
3079136007	MW-12	Ground Water	1/6/2020 13:00	1/7/2020 20:00	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3079136 UTS

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 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.
- 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: 3079136 UTS

Lab ID: 3079136001

Date Collected: 1/6/2020 11:00

Matrix: Ground Water

Sample ID: MW-5

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Methyl t-Butyl Ether	6.2		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/9/20 00:31	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/9/20 00:31	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:31	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	105		%	62 - 133	SW846 8260B			1/9/20 00:31	PDK	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B			1/9/20 00:31	PDK	A
Dibromofluoromethane (S)	95.4		%	78 - 116	SW846 8260B			1/9/20 00:31	PDK	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			1/9/20 00:31	PDK	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: 3079136002

Date Collected: 1/6/2020 12:00

Matrix: Ground Water

Sample ID: MW-8

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	9910	1	ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Ethylbenzene	2230		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Isopropylbenzene	ND		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Methyl t-Butyl Ether	21000		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Naphthalene	ND		ug/L	400	SW846 8260B			1/9/20 05:24	PDK	A
Toluene	23400		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Total Xylenes	12700		ug/L	600	SW846 8260B			1/9/20 05:24	PDK	A
1,2,4-Trimethylbenzene	1590		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
1,3,5-Trimethylbenzene	409		ug/L	200	SW846 8260B			1/9/20 05:24	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	103		%	62 - 133	SW846 8260B			1/9/20 05:24	PDK	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			1/9/20 05:24	PDK	A
Dibromofluoromethane (S)	92.8		%	78 - 116	SW846 8260B			1/9/20 05:24	PDK	A
Toluene-d8 (S)	100		%	76 - 127	SW846 8260B			1/9/20 05:24	PDK	A



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ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: 3079136003

Date Collected: 1/6/2020 15:30

Matrix: Ground Water

Sample ID: MW-9

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	11.6		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Ethylbenzene	7.6		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Methyl t-Butyl Ether	1.2		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/9/20 00:09	PDK	A
Toluene	20.2		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Total Xylenes	48.6		ug/L	3.0	SW846 8260B			1/9/20 00:09	PDK	A
1,2,4-Trimethylbenzene	6.6		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
1,3,5-Trimethylbenzene	3.6		ug/L	1.0	SW846 8260B			1/9/20 00:09	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B			1/9/20 00:09	PDK	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			1/9/20 00:09	PDK	A
Dibromofluoromethane (S)	95.5		%	78 - 116	SW846 8260B			1/9/20 00:09	PDK	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			1/9/20 00:09	PDK	A



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ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: 3079136004

Date Collected: 1/6/2020 13:30

Matrix: Ground Water

Sample ID: MW-4

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6020	1	ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Ethylbenzene	1700		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Isopropylbenzene	69.4		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Methyl t-Butyl Ether	563		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Naphthalene	170		ug/L	100	SW846 8260B			1/9/20 05:01	PDK	A
Toluene	1740		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Total Xylenes	6010		ug/L	150	SW846 8260B			1/9/20 05:01	PDK	A
1,2,4-Trimethylbenzene	1010		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
1,3,5-Trimethylbenzene	373		ug/L	50.0	SW846 8260B			1/9/20 05:01	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			1/9/20 05:01	PDK	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			1/9/20 05:01	PDK	A
Dibromofluoromethane (S)	92		%	78 - 116	SW846 8260B			1/9/20 05:01	PDK	A
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			1/9/20 05:01	PDK	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: 3079136005

Date Collected: 1/6/2020 11:30

Matrix: Ground Water

Sample ID: MW-10

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/9/20 00:54	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/9/20 00:54	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 00:54	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B			1/9/20 00:54	PDK	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			1/9/20 00:54	PDK	A
Dibromofluoromethane (S)	96.2		%	78 - 116	SW846 8260B			1/9/20 00:54	PDK	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			1/9/20 00:54	PDK	A



Jessica Lee Smith
Project Coordinator

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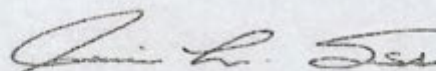
ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: **3079136006**
Sample ID: **MW-11**

Date Collected: 1/6/2020 12:00 Matrix: Ground Water
Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
Methyl t-Butyl Ether	6.9		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/9/20 01:16	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/9/20 01:16	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/9/20 01:16	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			1/9/20 01:16	PDK	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			1/9/20 01:16	PDK	A
Dibromofluoromethane (S)	94.3		%	78 - 116	SW846 8260B			1/9/20 01:16	PDK	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			1/9/20 01:16	PDK	A



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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

ANALYTICAL RESULTS

Workorder: 3079136 UTS

Lab ID: 3079136007

Date Collected: 1/6/2020 13:00

Matrix: Ground Water

Sample ID: MW-12

Date Received: 1/7/2020 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4520		ug/L	50.0	SW846 8260B			1/9/20 14:09	TMP	A
Ethylbenzene	645		ug/L	50.0	SW846 8260B			1/9/20 14:09	TMP	A
Isopropylbenzene	32.5		ug/L	1.0	SW846 8260B			1/9/20 04:39	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/9/20 04:39	PDK	A
Naphthalene	40.1		ug/L	2.0	SW846 8260B			1/9/20 04:39	PDK	A
Toluene	7530		ug/L	50.0	SW846 8260B			1/9/20 14:09	TMP	A
Total Xylenes	3540		ug/L	150	SW846 8260B			1/9/20 14:09	TMP	A
1,2,4-Trimethylbenzene	384		ug/L	50.0	SW846 8260B			1/9/20 14:09	TMP	A
1,3,5-Trimethylbenzene	130		ug/L	1.0	SW846 8260B			1/9/20 04:39	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	98.7		%	62 - 133	SW846 8260B			1/9/20 14:09	TMP	A
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			1/9/20 04:39	PDK	A
4-Bromofluorobenzene (S)	99.2		%	79 - 114	SW846 8260B			1/9/20 14:09	TMP	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			1/9/20 04:39	PDK	A
Dibromofluoromethane (S)	107		%	78 - 116	SW846 8260B			1/9/20 14:09	TMP	A
Dibromofluoromethane (S)	90.7		%	78 - 116	SW846 8260B			1/9/20 04:39	PDK	A
Toluene-d8 (S)	95.5		%	76 - 127	SW846 8260B			1/9/20 14:09	TMP	A
Toluene-d8 (S)	94.1		%	76 - 127	SW846 8260B			1/9/20 04:39	PDK	A

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ANALYTICAL RESULTS

Workorder: 3079136 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3079136002	1	MW-8	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3079136004	1	MW-4	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3079136 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3079136001	MW-5	SW846 8260B	
3079136002	MW-8	SW846 8260B	
3079136003	MW-9	SW846 8260B	
3079136004	MW-4	SW846 8260B	
3079136005	MW-10	SW846 8260B	
3079136006	MW-11	SW846 8260B	
3079136007	MW-12	SW846 8260B	

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December 18, 2019

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name: UST Testing	Workorder: 3075732
Purchase Order:	Workorder ID: UTS

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Friday, December 13, 2019.

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.

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



Jessica Lee Smith
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: 3075732 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3075732001	MW-4	Ground Water	12/13/2019 11:30	12/13/2019 21:40	Mr. John VanWagenen
3075732002	MW-5	Ground Water	12/13/2019 12:00	12/13/2019 21:40	Mr. John VanWagenen
3075732003	MW-7	Ground Water	12/13/2019 12:30	12/13/2019 21:40	Mr. John VanWagenen
3075732004	MW-8	Ground Water	12/13/2019 13:30	12/13/2019 21:40	Mr. John VanWagenen
3075732005	MW-9	Ground Water	12/13/2019 14:00	12/13/2019 21:40	Mr. John VanWagenen
3075732006	MW-10	Ground Water	12/13/2019 14:30	12/13/2019 21:40	Mr. John VanWagenen
3075732007	MW-11	Ground Water	12/13/2019 15:30	12/13/2019 21:40	Mr. John VanWagenen
3075732008	MW-12	Ground Water	12/13/2019 16:30	12/13/2019 21:40	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3075732 UTS

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 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.
- 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: 3075732 UTS

Lab ID: 3075732001

Date Collected: 12/13/2019 11:30

Matrix: Ground Water

Sample ID: MW-4

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5800	2	ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Ethylbenzene	1650		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Isopropylbenzene	71.5		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Methyl t-Butyl Ether	500		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Naphthalene	144		ug/L	100	SW846 8260B			12/18/19 01:03	VLM	B
Toluene	2060		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Total Xylenes	5750		ug/L	150	SW846 8260B			12/18/19 01:03	VLM	B
1,2,4-Trimethylbenzene	1130		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
1,3,5-Trimethylbenzene	381		ug/L	50.0	SW846 8260B			12/18/19 01:03	VLM	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	84.7		%	62 - 133	SW846 8260B			12/18/19 01:03	VLM	B
4-Bromofluorobenzene (S)	82.7		%	79 - 114	SW846 8260B			12/18/19 01:03	VLM	B
Dibromofluoromethane (S)	77	1	%	78 - 116	SW846 8260B			12/18/19 01:03	VLM	B
Toluene-d8 (S)	83.7		%	76 - 127	SW846 8260B			12/18/19 01:03	VLM	B



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ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732002

Date Collected: 12/13/2019 12:00

Matrix: Ground Water

Sample ID: MW-5

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Methyl t-Butyl Ether	9.2		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/16/19 17:03	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/16/19 17:03	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 17:03	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/16/19 17:03	TMP	A
4-Bromofluorobenzene (S)	89.3		%	79 - 114	SW846 8260B			12/16/19 17:03	TMP	A
Dibromofluoromethane (S)	97.5		%	78 - 116	SW846 8260B			12/16/19 17:03	TMP	A
Toluene-d8 (S)	94.2		%	76 - 127	SW846 8260B			12/16/19 17:03	TMP	A



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ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732003

Date Collected: 12/13/2019 12:30

Matrix: Ground Water

Sample ID: MW-7

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3780	1	ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Ethylbenzene	489		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Isopropylbenzene	ND		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Methyl t-Butyl Ether	112		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Naphthalene	ND		ug/L	100	SW846 8260B			12/18/19 01:25	VLM	B
Toluene	1780		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Total Xylenes	3820		ug/L	150	SW846 8260B			12/18/19 01:25	VLM	B
1,2,4-Trimethylbenzene	593		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
1,3,5-Trimethylbenzene	207		ug/L	50.0	SW846 8260B			12/18/19 01:25	VLM	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	84.8		%	62 - 133	SW846 8260B			12/18/19 01:25	VLM	B
4-Bromofluorobenzene (S)	82.5		%	79 - 114	SW846 8260B			12/18/19 01:25	VLM	B
Dibromofluoromethane (S)	78.1		%	78 - 116	SW846 8260B			12/18/19 01:25	VLM	B
Toluene-d8 (S)	83.3		%	76 - 127	SW846 8260B			12/18/19 01:25	VLM	B



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ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732004

Date Collected: 12/13/2019 13:30

Matrix: Ground Water

Sample ID: MW-8

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	12400	1	ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Ethylbenzene	2780		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Isopropylbenzene	ND		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Methyl t-Butyl Ether	24700		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Naphthalene	527		ug/L	400	SW846 8260B			12/16/19 18:13	TMP	A
Toluene	26000		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Total Xylenes	15200		ug/L	600	SW846 8260B			12/16/19 18:13	TMP	A
1,2,4-Trimethylbenzene	1980		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
1,3,5-Trimethylbenzene	487		ug/L	200	SW846 8260B			12/16/19 18:13	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			12/16/19 18:13	TMP	A
4-Bromofluorobenzene (S)	90		%	79 - 114	SW846 8260B			12/16/19 18:13	TMP	A
Dibromofluoromethane (S)	99.6		%	78 - 116	SW846 8260B			12/16/19 18:13	TMP	A
Toluene-d8 (S)	94.6		%	76 - 127	SW846 8260B			12/16/19 18:13	TMP	A



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ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732005

Date Collected: 12/13/2019 14:00

Matrix: Ground Water

Sample ID: MW-9

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	65.5		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Ethylbenzene	49.4		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Isopropylbenzene	3.4		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Methyl t-Butyl Ether	1.2		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/16/19 18:36	TMP	A
Toluene	121		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Total Xylenes	252		ug/L	3.0	SW846 8260B			12/16/19 18:36	TMP	A
1,2,4-Trimethylbenzene	30.0		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
1,3,5-Trimethylbenzene	16.2		ug/L	1.0	SW846 8260B			12/16/19 18:36	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	99.3		%	62 - 133	SW846 8260B			12/16/19 18:36	TMP	A
4-Bromofluorobenzene (S)	89.6		%	79 - 114	SW846 8260B			12/16/19 18:36	TMP	A
Dibromofluoromethane (S)	97		%	78 - 116	SW846 8260B			12/16/19 18:36	TMP	A
Toluene-d8 (S)	94.7		%	76 - 127	SW846 8260B			12/16/19 18:36	TMP	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732006

Date Collected: 12/13/2019 14:30

Matrix: Ground Water

Sample ID: MW-10

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/16/19 18:59	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/16/19 18:59	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 18:59	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	102		%	62 - 133	SW846 8260B			12/16/19 18:59	TMP	A
4-Bromofluorobenzene (S)	88.5		%	79 - 114	SW846 8260B			12/16/19 18:59	TMP	A
Dibromofluoromethane (S)	99.9		%	78 - 116	SW846 8260B			12/16/19 18:59	TMP	A
Toluene-d8 (S)	94.9		%	76 - 127	SW846 8260B			12/16/19 18:59	TMP	A



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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

ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732007

Date Collected: 12/13/2019 15:30

Matrix: Ground Water

Sample ID: MW-11

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Methyl t-Butyl Ether	7.4		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			12/16/19 19:22	TMP	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/16/19 19:22	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/16/19 19:22	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			12/16/19 19:22	TMP	A
4-Bromofluorobenzene (S)	87.9		%	79 - 114	SW846 8260B			12/16/19 19:22	TMP	A
Dibromofluoromethane (S)	96.4		%	78 - 116	SW846 8260B			12/16/19 19:22	TMP	A
Toluene-d8 (S)	93.4		%	76 - 127	SW846 8260B			12/16/19 19:22	TMP	A

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Report ID: 3075732 - 12/18/2019

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6/3/2020 12:54:23 PM

ANALYTICAL RESULTS

Workorder: 3075732 UTS

Lab ID: 3075732008

Date Collected: 12/13/2019 16:30

Matrix: Ground Water

Sample ID: MW-12

Date Received: 12/13/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2720		ug/L	50.0	SW846 8260B			12/18/19 01:48	VLM	B
Ethylbenzene	357		ug/L	50.0	SW846 8260B			12/18/19 01:48	VLM	B
Isopropylbenzene	29.1		ug/L	1.0	SW846 8260B			12/16/19 19:46	TMP	A
Methyl t-Butyl Ether	1370		ug/L	50.0	SW846 8260B			12/18/19 01:48	VLM	B
Naphthalene	64.5		ug/L	2.0	SW846 8260B			12/16/19 19:46	TMP	A
Toluene	4240		ug/L	50.0	SW846 8260B			12/18/19 01:48	VLM	B
Total Xylenes	1970		ug/L	150	SW846 8260B			12/18/19 01:48	VLM	B
1,2,4-Trimethylbenzene	319		ug/L	50.0	SW846 8260B			12/18/19 01:48	VLM	B
1,3,5-Trimethylbenzene	85.7		ug/L	1.0	SW846 8260B			12/16/19 19:46	TMP	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	82.8		%	62 - 133	SW846 8260B			12/18/19 01:48	VLM	B
1,2-Dichloroethane-d4 (S)	93.6		%	62 - 133	SW846 8260B			12/16/19 19:46	TMP	A
4-Bromofluorobenzene (S)	83.3		%	79 - 114	SW846 8260B			12/18/19 01:48	VLM	B
4-Bromofluorobenzene (S)	85.9		%	79 - 114	SW846 8260B			12/16/19 19:46	TMP	A
Dibromofluoromethane (S)	76.7	1	%	78 - 116	SW846 8260B			12/18/19 01:48	VLM	B
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			12/16/19 19:46	TMP	A
Toluene-d8 (S)	93.6		%	76 - 127	SW846 8260B			12/16/19 19:46	TMP	A
Toluene-d8 (S)	83.2		%	76 - 127	SW846 8260B			12/18/19 01:48	VLM	B



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3075732 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3075732001	1	MW-4	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 77 and the control limits were 78 to 116. This result was reported at a dilution of 50.				
3075732001	2	MW-4	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3075732003	1	MW-7	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3075732004	1	MW-8	SW846 8260B	Benzene
The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3075732008	1	MW-12	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 76.7 and the control limits were 78 to 116. This result was reported at a dilution of 50.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3075732 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3075732001	MW-4	SW846 8260B	
3075732002	MW-5	SW846 8260B	
3075732003	MW-7	SW846 8260B	
3075732004	MW-8	SW846 8260B	
3075732005	MW-9	SW846 8260B	
3075732006	MW-10	SW846 8260B	
3075732007	MW-11	SW846 8260B	
3075732008	MW-12	SW846 8260B	

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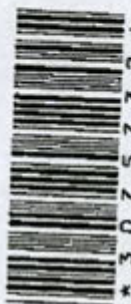


34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

Page _____ of _____
Courier: _____
Tracking #: _____



Co. Name: Corrigan Env. Assoc. Inc.
Contact (print name): John Van Wageningen Phone: 610-969-6540
Address: Po Box 224
St. Peters, PA 19470
Bill to (if different than Report to): same PO#: _____

Project Name/ID: UTS ALS Quote #: _____
TAT: ☒ Normal-Standard TAT is 10-12 business days.
☐ Rush-Subject to ALS approval and surcharges.
Date Required: _____
Approved By: _____

Sample	Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Times
1	MW-4		12/13/19 11:30	2
2	MW-5		12/14	2
3	MW-7		12/10	2
4	MW-8		1:30	2
5	MW-9		2:00	2
6	MW-10		2:30	2
7	MW-11		3:30	2
8	MW-12		4:30	2

SAMPLED BY (Please Print):		Project Comments:	
<u>John Van Wageningen</u>			
Requested By/Company Name	Date	Time	Received By/Company Name
<u>John Van Wageningen</u>	12/13/19	17:26	<u>John Van Wageningen</u>
<u>COMMON COURIER / ALS COURIER</u>	12/13/19	17:30	<u>COMMON COURIER / ALS COURIER</u>

ANALYSIS METHOD REQUESTED

Enter Number of Containers Per Analysis

Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatilized?	Y	N
COC labels completed/accurate?	Y	N
Received on ice?	Y	N
(if present) Seals intact?	Y	N
Custody seals Present?	Y	N
Container in good condition?	Y	N

Circle appropriate Y or N.

Therm. ID: 525

No. of Coolers: _____

Notes: _____

Cooler Temp: _____

Preservative: HCL

Container Type: 4/45

Capacitor Size: 614

Preservative: HCL

ALS FIELD SERVICES

Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other ☐

State Samples Collected in?

MD ☐ NJ ☐ NY ☐ PA ☐

Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐

SWHA Form? ☐ Yes ☐ No

Other ☐ If yes, format type: _____

DOO Criteria Required? ☐



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

Condition of Sample Receipt Form

Client: Coventry Env. Assoc. Work Order #: 3075732 Initials: QJ Date: 12/14/19

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?..... 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): 1 _____

Thermometer ID: S2S _____

Radiological (µCi): _____

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

Rev. 4/29/2019

October 25, 2019

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name: UST Testing	Workorder: 3065293
Purchase Order:	Workorder ID: UTS

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, October 22, 2019.

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.

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



Jessica Lee Smith
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: 3065293 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3065293001	MW-7	Ground Water	10/22/2019 13:30	10/22/2019 22:00	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3065293 UTS

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 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.
- 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: 3065293 UTS

Lab ID: 3065293001

Date Collected: 10/22/2019 13:30

Matrix: Ground Water

Sample ID: MW-7

Date Received: 10/22/2019 22:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4360	1	ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
Ethylbenzene	1160		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
Isopropylbenzene	ND		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
Methyl t-Butyl Ether	102		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
Naphthalene	311		ug/L	200	SW846 8260B			10/24/19 18:54	TMP	A
Toluene	5090		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
Total Xylenes	6850		ug/L	300	SW846 8260B			10/24/19 18:54	TMP	A
1,2,4-Trimethylbenzene	1310		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
1,3,5-Trimethylbenzene	416		ug/L	100	SW846 8260B			10/24/19 18:54	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	113		%	62 - 133	SW846 8260B			10/24/19 18:54	TMP	A
4-Bromofluorobenzene (S)	95		%	79 - 114	SW846 8260B			10/24/19 18:54	TMP	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			10/24/19 18:54	TMP	A
Toluene-d8 (S)	97.4		%	76 - 127	SW846 8260B			10/24/19 18:54	TMP	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3065293 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3065293001	1	MW-7	SW846 8260B	Benzene

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3065293 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3065293001	MW-7	SW846 8260B	

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

Condition of Sample Receipt Form

Client: Coventry Work Order #: 3065293 Initials: LD Date: 10/22/19

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

Cooler #: _____

Temperature (°C): 6 _____

Thermometer ID: 450 _____

Radiological (µCi): _____

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

Rev. 4/29/2019

September 23, 2019

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name:	Routine Sample Submission	Workorder:	3057651
Purchase Order:		Workorder ID:	UTS

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Thursday, September 12, 2019.

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.

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



Jessica Lee Smith
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: 3057651 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3057651001	MW-3	Water	9/12/2019 08:00	9/12/2019 21:32	Mr. John VanWagenen
3057651002	MW-4	Water	9/12/2019 11:40	9/12/2019 21:32	Mr. John VanWagenen
3057651003	MW-5	Water	9/12/2019 09:15	9/12/2019 21:32	Mr. John VanWagenen
3057651004	MW-6	Water	9/12/2019 11:15	9/12/2019 21:32	Mr. John VanWagenen
3057651005	MW-7	Water	9/12/2019 10:30	9/12/2019 21:32	Mr. John VanWagenen
3057651006	MW-8	Water	9/12/2019 10:00	9/12/2019 21:32	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3057651 UTS

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: 3057651 UTS

Lab ID: 3057651001

Date Collected: 9/12/2019 08:00

Matrix: Water

Sample ID: MW-3

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
Methyl t-Butyl Ether	12.2		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/18/19 03:21	VLM	A
Toluene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/18/19 03:21	VLM	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:21	VLM	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			9/18/19 03:21	VLM	A
4-Bromofluorobenzene (S)	112		%	79 - 114	SW846 8260B			9/18/19 03:21	VLM	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			9/18/19 03:21	VLM	A
Toluene-d8 (S)	86		%	76 - 127	SW846 8260B			9/18/19 03:21	VLM	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3057651 UTS

Lab ID: 3057651002

Date Collected: 9/12/2019 11:40

Matrix: Water

Sample ID: MW-4

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	12500		ug/L	200	SW846 8260B			9/19/19 00:55	PDK	B
Ethylbenzene	3230		ug/L	200	SW846 8260B			9/19/19 00:55	PDK	B
Isopropylbenzene	126		ug/L	5.0	SW846 8260B			9/18/19 06:03	VLM	A
Methyl t-Butyl Ether	1340		ug/L	200	SW846 8260B			9/19/19 00:55	PDK	B
Naphthalene	406		ug/L	10.0	SW846 8260B			9/18/19 06:03	VLM	A
Toluene	21400		ug/L	200	SW846 8260B			9/19/19 00:55	PDK	B
Total Xylenes	16900		ug/L	600	SW846 8260B			9/19/19 00:55	PDK	B
1,2,4-Trimethylbenzene	2430		ug/L	200	SW846 8260B			9/19/19 00:55	PDK	B
1,3,5-Trimethylbenzene	778		ug/L	5.0	SW846 8260B			9/18/19 06:03	VLM	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62 - 133	SW846 8260B			9/18/19 06:03	VLM	A
1,2-Dichloroethane-d4 (S)	113		%	62 - 133	SW846 8260B			9/19/19 00:55	PDK	B
4-Bromofluorobenzene (S)	97.6		%	79 - 114	SW846 8260B			9/19/19 00:55	PDK	B
4-Bromofluorobenzene (S)	98.8		%	79 - 114	SW846 8260B			9/18/19 06:03	VLM	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B			9/19/19 00:55	PDK	B
Dibromofluoromethane (S)	97.3		%	78 - 116	SW846 8260B			9/18/19 06:03	VLM	A
Toluene-d8 (S)	99.8		%	76 - 127	SW846 8260B			9/19/19 00:55	PDK	B
Toluene-d8 (S)	94.6		%	76 - 127	SW846 8260B			9/18/19 06:03	VLM	A



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ANALYTICAL RESULTS

Workorder: 3057651 UTS

Lab ID: 3057651003

Date Collected: 9/12/2019 09:15

Matrix: Water

Sample ID: MW-5

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Methyl t-Butyl Ether	58.7		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/18/19 03:44	VLM	A
Toluene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/18/19 03:44	VLM	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 03:44	VLM	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B			9/18/19 03:44	VLM	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			9/18/19 03:44	VLM	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B			9/18/19 03:44	VLM	A
Toluene-d8 (S)	97.6		%	76 - 127	SW846 8260B			9/18/19 03:44	VLM	A



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ANALYTICAL RESULTS

Workorder: 3057651 UTS

Lab ID: 3057651004

Date Collected: 9/12/2019 11:15

Matrix: Water

Sample ID: MW-6

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	74.2		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
Ethylbenzene	4.3		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/18/19 04:08	VLM	A
Toluene	12.6		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
Total Xylenes	10.7		ug/L	3.0	SW846 8260B			9/18/19 04:08	VLM	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
1,3,5-Trimethylbenzene	1.5		ug/L	1.0	SW846 8260B			9/18/19 04:08	VLM	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B			9/18/19 04:08	VLM	A
4-Bromofluorobenzene (S)	111		%	79 - 114	SW846 8260B			9/18/19 04:08	VLM	A
Dibromofluoromethane (S)	104		%	78 - 116	SW846 8260B			9/18/19 04:08	VLM	A
Toluene-d8 (S)	90.5		%	76 - 127	SW846 8260B			9/18/19 04:08	VLM	A



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ANALYTICAL RESULTS

Workorder: 3057651 UTS

Lab ID: 3057651005

Date Collected: 9/12/2019 10:30

Matrix: Water

Sample ID: MW-7

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	9970		ug/L	50.0	SW846 8260B			9/19/19 00:32	PDK	B
Ethylbenzene	2470		ug/L	50.0	SW846 8260B			9/19/19 00:32	PDK	B
Isopropylbenzene	136		ug/L	1.0	SW846 8260B			9/18/19 04:31	VLM	A
Methyl t-Butyl Ether	235		ug/L	50.0	SW846 8260B			9/19/19 00:32	PDK	B
Naphthalene	ND		ug/L	200	SW846 8260B			9/20/19 14:07	TMP	B
Toluene	12300		ug/L	100	SW846 8260B			9/20/19 14:07	TMP	B
Total Xylenes	13500		ug/L	150	SW846 8260B			9/19/19 00:32	PDK	B
1,2,4-Trimethylbenzene	2510		ug/L	50.0	SW846 8260B			9/19/19 00:32	PDK	B
1,3,5-Trimethylbenzene	702		ug/L	50.0	SW846 8260B			9/19/19 00:32	PDK	B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	105		%	62 - 133	SW846 8260B			9/18/19 04:31	VLM	A
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B			9/19/19 00:32	PDK	B
1,2-Dichloroethane-d4 (S)	106		%	62 - 133	SW846 8260B			9/20/19 14:07	TMP	B
4-Bromofluorobenzene (S)	108		%	79 - 114	SW846 8260B			9/20/19 14:07	TMP	B
4-Bromofluorobenzene (S)	110		%	79 - 114	SW846 8260B			9/18/19 04:31	VLM	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			9/19/19 00:32	PDK	B
Dibromofluoromethane (S)	104		%	78 - 116	SW846 8260B			9/18/19 04:31	VLM	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			9/19/19 00:32	PDK	B
Dibromofluoromethane (S)	108		%	78 - 116	SW846 8260B			9/20/19 14:07	TMP	B
Toluene-d8 (S)	88.2		%	76 - 127	SW846 8260B			9/18/19 04:31	VLM	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			9/20/19 14:07	TMP	B
Toluene-d8 (S)	86		%	76 - 127	SW846 8260B			9/19/19 00:32	PDK	B



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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3057651 UTS

Lab ID: 3057651006

Date Collected: 9/12/2019 10:00

Matrix: Water

Sample ID: MW-8

Date Received: 9/12/2019 21:32

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	12200		ug/L	500	SW846 8260B			9/19/19 01:18	PDK	B
Ethylbenzene	2800		ug/L	500	SW846 8260B			9/19/19 01:18	PDK	B
Isopropylbenzene	103		ug/L	5.0	SW846 8260B			9/18/19 05:40	VLM	A
Methyl t-Butyl Ether	21900		ug/L	500	SW846 8260B			9/19/19 01:18	PDK	B
Naphthalene	415		ug/L	10.0	SW846 8260B			9/18/19 05:40	VLM	A
Toluene	25400		ug/L	500	SW846 8260B			9/19/19 01:18	PDK	B
Total Xylenes	14500		ug/L	1500	SW846 8260B			9/19/19 01:18	PDK	B
1,2,4-Trimethylbenzene	1880		ug/L	500	SW846 8260B			9/19/19 01:18	PDK	B
1,3,5-Trimethylbenzene	531		ug/L	5.0	SW846 8260B			9/18/19 05:40	VLM	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B			9/19/19 01:18	PDK	B
1,2-Dichloroethane-d4 (S)	100		%	62 - 133	SW846 8260B			9/18/19 05:40	VLM	A
4-Bromofluorobenzene (S)	113		%	79 - 114	SW846 8260B			9/19/19 01:18	PDK	B
4-Bromofluorobenzene (S)	96.7		%	79 - 114	SW846 8260B			9/18/19 05:40	VLM	A
Dibromofluoromethane (S)	103		%	78 - 116	SW846 8260B			9/19/19 01:18	PDK	B
Dibromofluoromethane (S)	104		%	78 - 116	SW846 8260B			9/18/19 05:40	VLM	A
Toluene-d8 (S)	95.5		%	76 - 127	SW846 8260B			9/18/19 05:40	VLM	A
Toluene-d8 (S)	98.5		%	76 - 127	SW846 8260B			9/19/19 01:18	PDK	B


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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3057651 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3057651001	MW-3	SW846 8260B	
3057651002	MW-4	SW846 8260B	
3057651003	MW-5	SW846 8260B	
3057651004	MW-6	SW846 8260B	
3057651005	MW-7	SW846 8260B	
3057651006	MW-8	SW846 8260B	

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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.



of

Client Name: <u>Cowichy Env Assoc</u>		Container Type: <u>glass</u>	Completed by Receiving Lab	
Address: <u>PO Box 224</u>		Container Size: <u>1gal</u>	W.O. Temp: <u>21°C</u> Therm ID: <u>402</u>	
Contact: <u>John Wagoner</u>		Preserve: <u>HCL</u>	Analyst Initials: <u>SAS</u>	
Phone#: <u>610-464-1650</u>		Courier/Tracking #:		
Project Name/ID: <u>UTS</u>		Purchase Order #:		
Bill To: <u>SANE</u>		Project Comments:		
TAT ☒ Normal-Standard TAT is 10-12 business days.		ALS Field Services: ☐ Pickup ☐ Labor		
Date Required: ☐ Rush-Subject to ALS approval and surcharges.		☐ Composite Sampling ☐ Rental Equipment		
Email? ☐ Y ☐ N		Other:		
Fax? ☐ Y ☐ N		Sample/COC Comments		
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yyyy	Time hh:mm	Enter Number of Containers Per Sample or Field Results Below.
1	MW-3	9/12/19	8:00	1
2	MW-4	9/12/19	11:15	2
3	MW-5	9/12/19	11:15	2
4	MW-6	9/12/19	11:15	2
5	MW-7	9/12/19	10:30	2
6	MW-8	9/12/19	10:00	2
7				
8				
9				
10				
SAMPLER COMMENTS: <u>John Wagoner</u>				
Received By / Company Name <u>ALS</u>				
1	<u>John Wagoner</u>	7/27/19	13:47	2-0-191347
3	<u>Beverly Wagoner</u>	9-12-19	13:30	4
5	<u>John Wagoner</u>	9/12/19	13:30	6
7	<u>John Wagoner</u>	9/12/19	13:30	8
9	<u>John Wagoner</u>	9/12/19	13:30	10
Data Deliverables		Special Processing		State Samples Collected In
☐ Standard ☐ CLP-like ☐ USACE/DOO		☐ USACE ☐ Lab ☐ Special		☐ NY ☐ NJ ☐ PA
Reportable to PADEP? ☐ Yes ☐ No		PWSID #		other
EDDS: Format Type		PWSID #		

Rev 04/19

ALS SHIPPING ADDRESS: 301 Filling Mill Road, Middletown, PA 17057

* G=Grab; C=Composite

**Matrix

AW=Drinking Water; GW=Groundwater; Q=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS



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

Condition of Sample Receipt Form

Client: Coventry Work Order #: 3057651 Initials: DN Date: 9/13

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?..... 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): 2.1 _____

Thermometer ID: 402 _____

Radiological (µCi): _____

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

Rev. 4/29/2019

May 28, 2019

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name: UST Testing	Workorder: 3035503
Purchase Order:	Workorder ID: UST Testing

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, May 22, 2019.

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.

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



Jessica Lee Smith
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3035503 UST Testing

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3035503001	MW-2	Ground Water	5/21/2019 12:00	5/22/2019 20:29	Collected by Client
3035503002	MW-3	Ground Water	5/21/2019 12:30	5/22/2019 20:29	Collected by Client

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SAMPLE SUMMARY

Workorder: 3035503 UST Testing

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: 3035503 UST Testing

Lab ID: 3035503001

Date Collected: 5/21/2019 12:00

Matrix: Ground Water

Sample ID: MW-2

Date Received: 5/22/2019 20:29

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/25/19 07:43	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/25/19 07:43	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 07:43	DD	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	116		%	62 - 133	SW846 8260B			5/25/19 07:43	DD	A
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			5/25/19 07:43	DD	A
Dibromofluoromethane (S)	102		%	78 - 116	SW846 8260B			5/25/19 07:43	DD	A
Toluene-d8 (S)	87.1		%	76 - 127	SW846 8260B			5/25/19 07:43	DD	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3035503 UST Testing

Lab ID: 3035503002

Date Collected: 5/21/2019 12:30

Matrix: Ground Water

Sample ID: MW-3

Date Received: 5/22/2019 20:29

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
Methyl t-Butyl Ether	10.9	1	ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/25/19 08:06	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/25/19 08:06	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/25/19 08:06	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B			5/25/19 08:06	DD	A
4-Bromofluorobenzene (S)	105		%	79 - 114	SW846 8260B			5/25/19 08:06	DD	A
Dibromofluoromethane (S)	101		%	78 - 116	SW846 8260B			5/25/19 08:06	DD	A
Toluene-d8 (S)	85.9		%	76 - 127	SW846 8260B			5/25/19 08:06	DD	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3035503 UST Testing

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3035503002	1	MW-3	SW846 8260B	Methyl t-Butyl Ether

The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 118 and the control limits were 69 to 115.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3035503 UST Testing

Lab ID	Sample ID	Analysis Method	Prep Method
3035503001	MW-2	SW846 8260B	
3035503002	MW-3	SW846 8260B	

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

Environmetal

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

Page 1 of 1
Courier:
Tracking #:

Co. Name: County Env UTS
Contact (Report to): John Van Orman Phone: 610-469-6540
Address: PO Box 224
St Peter, PA 19470

Bill to (if different than Report to): Same PO#:

Project Name/ID: UTS ALS Quote #:
TAT: ☒ Normal Standard TAT is 10-12 business days.
☐ Rush-Subject to ALS approval and surcharges.
Approved By:

Email? ☐ -Y ☐ -N No.
Fax? ☐ -Y ☐ -N No.

Sample Description/Location (as it will appear on the lab report)
COC Comments
Sample Date / Military Time

1	<u>MW-1</u>	<u>5/21/19</u>	<u>1200</u>	<u>6-CU 2</u>	<u>PPM waterline</u>
2	<u>MW-3</u>	<u>5/21/19</u>	<u>1215</u>	<u>6-CU 2</u>	<u>PPM waterline</u>
3					
4					
5					
6					
7					
8					

SAMPLED BY (Please Print): John Van Orman

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<u>John Van Orman</u>	<u>5/21/19</u>	<u>1341</u>	<u>Bowling Green</u>	<u>5/21/19</u>	<u>1341</u>
<u>Bowling Green</u>	<u>5/21/19</u>	<u>1600</u>	<u>4</u>	<u>5/21/19</u>	<u>1600</u>
<u>COMMON COURIER</u>	<u>5/21/19</u>	<u>1601</u>	<u>6</u>	<u>COMMON COURIER</u>	<u>1601</u>
<u>COMMON COURIER</u>	<u>5/21/19</u>	<u>1601</u>	<u>8</u>	<u>COMMON COURIER</u>	<u>1601</u>
<u>COMMON COURIER</u>	<u>5/21/19</u>	<u>1601</u>	<u>10</u>	<u>COMMON COURIER</u>	<u>1601</u>

ANALYSES/METHOD REQUESTED
No. of Coolers: 40
Therm. ID: 40
Cooler Temp: 0°C
Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	COC Labels complete/accurate?	Container in good condition?
<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>

Enter Number of Containers Per Analysis

Standard	CLP-like	NJ-Reduced	NJ-Full	State Samples Collected in?	State Samples Collected in?
☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐

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

EDDs Required?
1000 Criteria Required?



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

Condition of Sample Receipt Form

Client: CONCENTRA ENV Work Order #: 3035503 Initials: lw Date: 5-23-19

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?..... 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 1631 E (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 #: 1

Temperature (°C): 0

Thermometer ID: 44

Radiological (µCi): _____

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

Not DW WS-23-9

Rev. 4/29/2019

May 17, 2019

Mr. John VanWagenen
Coventry Environmental Associates, Inc.
PO Box 224
Saint Peters, PA 19470

Certificate of Analysis

Project Name: UST Testing	Workorder: 3033054
Purchase Order:	Workorder ID: UTS

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Thursday, May 9, 2019.

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.

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Jessica Lee Smith
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3033054 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3033054001	MW-1	Ground Water	5/9/2019 13:30	5/9/2019 21:21	Mr. John VanWagenen
3033054002	MW-2	Ground Water	5/9/2019 13:45	5/9/2019 21:21	Mr. John VanWagenen
3033054003	MW-3	Ground Water	5/9/2019 14:00	5/9/2019 21:21	Mr. John VanWagenen

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Vancouver Waterloo • Winnipeg • Yellowknife **United States:** Cincinnati • Everett • Fort Collins • Holland • Houston • Middletown • Salt Lake City • Spring City • York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 3033054 UTS

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.
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- 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
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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: 3033054 UTS

Lab ID: 3033054001

Date Collected: 5/9/2019 13:30

Matrix: Ground Water

Sample ID: MW-1

Date Received: 5/9/2019 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	7090	1,2	ug/L	200	SW846 8260B			5/17/19 04:07	PDK	A
Ethylbenzene	835		ug/L	10.0	SW846 8260B			5/15/19 07:28	PDK	A
Isopropylbenzene	52.7		ug/L	10.0	SW846 8260B			5/15/19 07:28	PDK	A
Methyl t-Butyl Ether	918		ug/L	10.0	SW846 8260B			5/15/19 07:28	PDK	A
Naphthalene	43.0		ug/L	20.0	SW846 8260B			5/15/19 07:28	PDK	A
Toluene	10100		ug/L	200	SW846 8260B			5/17/19 04:07	PDK	A
Total Xylenes	9500		ug/L	600	SW846 8260B			5/17/19 04:07	PDK	A
1,2,4-Trimethylbenzene	1800		ug/L	10.0	SW846 8260B			5/15/19 07:28	PDK	A
1,3,5-Trimethylbenzene	862		ug/L	10.0	SW846 8260B			5/15/19 07:28	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	113		%	62 - 133	SW846 8260B			5/15/19 07:28	PDK	A
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B			5/17/19 04:07	PDK	A
4-Bromofluorobenzene (S)	99.8		%	79 - 114	SW846 8260B			5/17/19 04:07	PDK	A
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			5/15/19 07:28	PDK	A
Dibromofluoromethane (S)	105		%	78 - 116	SW846 8260B			5/17/19 04:07	PDK	A
Dibromofluoromethane (S)	112		%	78 - 116	SW846 8260B			5/15/19 07:28	PDK	A
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			5/17/19 04:07	PDK	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B			5/15/19 07:28	PDK	A



Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3033054 UTS

Lab ID: 3033054002

Date Collected: 5/9/2019 13:45

Matrix: Ground Water

Sample ID: MW-2

Date Received: 5/9/2019 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/15/19 07:05	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/15/19 07:05	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 07:05	PDK	A
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B			5/15/19 07:05	PDK	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B			5/15/19 07:05	PDK	A
Dibromofluoromethane (S)	116		%	78 - 116	SW846 8260B			5/15/19 07:05	PDK	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B			5/15/19 07:05	PDK	A



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ANALYTICAL RESULTS

Workorder: 3033054 UTS

Lab ID: 3033054003

Date Collected: 5/9/2019 14:00

Matrix: Ground Water

Sample ID: MW-3

Date Received: 5/9/2019 21:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Methyl t-Butyl Ether	9.6		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Naphthalene	3.9		ug/L	2.0	SW846 8260B			5/15/19 06:42	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Total Xylenes	3.7		ug/L	3.0	SW846 8260B			5/15/19 06:42	PDK	A
1,2,4-Trimethylbenzene	4.7		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
1,3,5-Trimethylbenzene	1.0		ug/L	1.0	SW846 8260B			5/15/19 06:42	PDK	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	115		%	62 - 133	SW846 8260B			5/15/19 06:42	PDK	A
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			5/15/19 06:42	PDK	A
Dibromofluoromethane (S)	112		%	78 - 116	SW846 8260B			5/15/19 06:42	PDK	A
Toluene-d8 (S)	106		%	76 - 127	SW846 8260B			5/15/19 06:42	PDK	A



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ANALYTICAL RESULTS

Workorder: 3033054 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3033054001	1	MW-1	SW846 8260B	Benzene
pH - Methods for the analysis of volatile organics require that the sample be preserved to a pH less than 2 using HCl. This sample had a pH greater than 2 when received by the lab.				
3033054001	2	MW-1	SW846 8260B	Benzene
VTC - The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3033054 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3033054001	MW-1	SW846 8260B	
3033054002	MW-2	SW846 8260B	
3033054003	MW-3	SW846 8260B	

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301 Filling Mill Road
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.



of

Client Name: <i>Century Env. Assoc.</i>		Container Type: <i>gall</i>		Date: <i>5/19/19</i>		Time: <i>1:30</i>		ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment Other:					
Address: <i>PO Box 224 St. Robert, PA 19420</i>		Container Size: <i>5 gal</i>		W.O. Temp: <i>Q</i> Therm ID: <i>401</i>		Courier/Tracking #: <i>1844</i>		Purchase Order #:					
Contact: <i>John Chivildere</i>		Container ID: <i>1844</i>		Project Comments:		Special Processing: ☐ USACE ☐ Navy ☐ PA ☐ NC ☐ other		State Samples Collected In					
Phone #: <i>610-444-6140</i>		Project Name: <i>UTS</i>		Enter Number of Containers Per Sample or Field Results Below.		Reportable to PADEP? ☐ Yes ☐ No ☐		Sample Disposal: ☐ Lab ☐ Special					
Bill To: <i>sand</i>		TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.		Date Required: ☐ -Y ☐ -Y No:		PWSID #		EDDS: Formal Type					
Sample Description/Location (as it will appear on the lab report)		Data Collected m/d/yyyy		Time h:mm		Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOD		Special Processing: ☐ USACE ☐ Navy ☐ PA ☐ NC ☐ other					
1 <i>MU-1</i>		5/19/19		1:30		1							
2 <i>MU-2</i>		5/19/19		1:45		2							
3 <i>MU-3</i>		5/19/19		2:00		2							
4													
5													
6													
7													
8													
9													
10													
SAMPLED BY (Please Print): <i>John Van Dyke</i>		Relinquished By/Company Name		Date		Time		Received By/Company Name		Date		Time	
1 <i>John Van Dyke</i>		5/19/19		1:30		1:30		2 <i>Chris Caener</i>		5/19/19		1:30	
3 <i>Chris Caener</i>		5/19/19		1:45		1:45		4 <i>COMMON COURIER/ALS COURIER</i>		5/19/19		2:00	
5 <i>COMMON COURIER/ALS COURIER</i>		5/19/19		2:00		2:00		6 <i>COMMON COURIER/ALS COURIER</i>		5/19/19		2:00	
7								8					
9								10					



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

Condition of Sample Receipt Form

Client: <u>Cowcountry Env</u>	Work Order #: <u>3033004</u>	Initials: <u>CS</u>	Date: <u>5/10/19</u>
-------------------------------	------------------------------	---------------------	----------------------

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

Cooler #: _____
Temperature (°C): 0°C
Thermometer ID: TH401
Radiological (µCi): _____

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