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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

February 6, 2020

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3083958**
Purchase Order:		Workorder ID:	**United 01/30/20**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Friday, January 31, 2020.

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

If you have any questions regarding this certificate of analysis, please contact Jessica Lee Smith (Project Coordinator) at (717) 944-5541.

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

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

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

Jessica Lee Smith
Project Coordinator

6/3/2020 12:54:58 PM

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3083958 United 01/30/20

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3083958001	MW-15-57	Solid	1/30/2020 13:00	1/31/2020 20:25	Mr. John VanWagenen

6/3/2020 12:54:59 PM

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SAMPLE SUMMARY

Workorder: 3083958 United 01/30/20

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 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

6/3/2020 12:55:00 PM

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ANALYTICAL RESULTS

Workorder: 3083958 United 01/30/20

Lab ID: **3083958001** Date Collected: 1/30/2020 13:00 Matrix: Solid
Sample ID: **MW-15-57** Date Received: 1/31/2020 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	225		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Ethylbenzene	ND		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Isopropylbenzene	ND		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Naphthalene	ND		ug/kg	115	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Toluene	558		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Total Xylenes	219		ug/kg	173	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	57.6	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	85.6		%	71 - 146	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
4-Bromofluorobenzene (S)	126		%	46 - 138	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Dibromofluoromethane (S)	74.4		%	42 - 143	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
Toluene-d8 (S)	98.8		%	54 - 141	SW846 8260B	1/30/20 13:00	JTH	2/6/20 03:39	PDK	A
WET CHEMISTRY										
Moisture	18.1		%	0.1	S2540G-11			2/5/20 12:03	AXD	
Total Solids	81.9		%	0.1	S2540G-11			2/5/20 12:03	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3083958 United 01/30/20

Lab ID	Sample ID	Analysis Method	Prep Method
3083958001	MW-15-57	S2540G-11	
3083958001	MW-15-57	SW846 8260B	SW846 5035

ALS Environmental
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 #:

* 3 0 8 3 9 5 8 *

Co. Name: Coventry Env. Assoc. Phone: 610-469 6540
Contact (Report to): John Van Wagoner
Address: PO Box 224 St. Peters, PA 19470

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

Project Name/#: United ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? -Y
Fax? -Y No.:

	***Container Type	***Container Size	***Preservative
1	glass	vial	HPOH
2	glass	vial	D.I.
3	glass	4oz	None

ANALYSES/METHOD REQUESTED: PADEP, unleaded gas

Sample Description/Location (as it will appear on the lab record)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis											
1 MW-15-57		1/30/20	1300	G	SO	1	2	1									
2																	
3																	
4																	
5																	
6																	
7																	
8																	

Refrigerated by:
Cooler Temp: 2 °C
Therm. ID: 318
No. of Coolers:
Notes:

Circle appropriate Y or N.

Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
Custody seals Present?	Y	N
(If present) Seals Intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N

SAMPLED BY (Please Print): John Van Wagoner

Project Comments:

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	1/31/20	1640	2	[signature]	1/31/20	1640
3	[signature]	1/31/20	1700	4	COMMON COURIER / ALS COURIER		
5	COMMON COURIER / ALS COURIER			6	Com	1/31/20	2025
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] ___
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] yes [ ] Other
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Enter PWSID No.
DOD Criteria Required?

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

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

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
Coventry Env.	3083958	QV	2/1/2020

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?[1]	(N/A)	YES	NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?	(YES)		NO
8. Are all samples within holding times for the requested analyses?	(YES)		NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)	(YES)		NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?	(N/A)	YES	NO
11. Were the samples received on ice?	(YES)		NO
12. Were sample temperatures measured at 0.0-6.0°C	(YES)		NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below		YES	(NO)
13a. Are the samples required for SDWA compliance reporting?	(N/A)	YES	NO
13b. Did the client provide a SDWA PWS ID#?	(N/A)	YES	NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?	(N/A)	YES	NO
13d. Did the client provide the SDWA sample location ID/Description?	(N/A)	YES	NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?	(N/A)	YES	NO

Cooler #:								
Temperature (°C):	2							
Thermometer ID:	318							
Radiological (µCi):								

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

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

Rev 1/20/2020

ALS Environmental

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January 31, 2020

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

Certificate of Analysis

Project Name:	**Routine Sample Submission**	Workorder:	**3083414**
Purchase Order:		Workorder ID:	**United**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, January 29, 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.

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

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Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:03 PM

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SAMPLE SUMMARY

Workorder: 3083414 United

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3083414001	MW-13-57	Solid	1/28/2020 13:00	1/29/2020 19:50	Mr. John VanWagenen
3083414002	MW-14-57	Solid	1/29/2020 13:00	1/29/2020 19:50	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3083414 United

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: 3083414 United

Lab ID: **3083414001** Date Collected: 1/28/2020 13:00 Matrix: Solid
Sample ID: **MW-13-57** Date Received: 1/29/2020 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Ethylbenzene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Isopropylbenzene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Methyl t-Butyl Ether	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Naphthalene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Toluene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Total Xylenes	ND		ug/kg	9.1	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.7		%	56 - 124	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
4-Bromofluorobenzene (S)	95.2		%	51 - 128	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Dibromofluoromethane (S)	104		%	62 - 123	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
Toluene-d8 (S)	98.1		%	59 - 131	SW846 8260B	1/28/20 13:00	JTH	1/31/20 07:33	PDK	B
WET CHEMISTRY										
Moisture	18.4		%	0.1	S2540G-11			1/30/20 11:38	AXD	
Total Solids	81.6		%	0.1	S2540G-11			1/30/20 11:38	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:06 PM

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3083414 United

Lab ID: **3083414002** Date Collected: 1/29/2020 13:00 Matrix: Solid
Sample ID: **MW-14-57** Date Received: 1/29/2020 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Isopropylbenzene	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Methyl t-Butyl Ether	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Naphthalene	13.5		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Toluene	7.9		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Total Xylenes	ND		ug/kg	6.3	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8		%	56 - 124	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
4-Bromofluorobenzene (S)	94.1		%	51 - 128	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Dibromofluoromethane (S)	103		%	62 - 123	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
Toluene-d8 (S)	98.4		%	59 - 131	SW846 8260B	1/29/20 13:00	JTH	1/31/20 07:59	PDK	B
WET CHEMISTRY										
Moisture	15.3		%	0.1	S2540G-11			1/30/20 11:38	AXD	
Total Solids	84.7		%	0.1	S2540G-11			1/30/20 11:38	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:06 PM

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3083414 United

Lab ID	Sample ID	Analysis Method	Prep Method
3083414001	MW-13-57	S2540G-11	
3083414001	MW-13-57	SW846 8260B	SW846 5035
3083414002	MW-14-57	S2540G-11	
3083414002	MW-14-57	SW846 8260B	SW846 5035

ALS Environmental

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 #:

* 3 0 8 3 4 1 4 *

Co. Name: Country Env. Assoc.
Contact (Report to): John Van Wagenen Phone: 610-469-6540
Address: PO Box 224
St. Peters, PA 19470

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

Project Name/#: United ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? -Y
Fax? -Y No.:

				Analysis 1	Analysis 2	Analysis 3
***Container Type				9/4	1 L	9/4
***Container Size				Vial	Vial	40 2
***Preservative				DI -	MeOH	None
ANALYSES/METHOD REQUESTED				PADEP Unleaded Gasoline		

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis										
1 MW-13-57		1/28/20	13:40	G	SO	2	1	1								
2 MW-14-57		1/29/20	13:40	G	SO	2	1	1								
3																
4																
5																
6																
7																
8																

SAMPLED BY (Please Print): John Van Wagenen

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	1/29/2020	1640	2 Chris Edwards	1/29/20	1640
3 Chris Edwards	1/29/2020	1640	4 [signature] COURIER		
5 COMMON COURIER / 3 COURIER			6	1/29/2020	1950
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] Other
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
EDDs Required? If yes, format type: Other
Enter PWSID No.
DOD Criteria Required?

Receipt Information (completed by Sample Receiving)
Performed by:
Cooler Temp: 2
Therm. ID: 33V
No. of Coolers:
Notes:

Circle appropriate Y or N.

Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
Custody seals Present?	Y	N
(if present) Seals Intact?	Y	N
Received on ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
Rev 01-2013

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

Condition of Sample Receipt Form

Client: Coventry | Work Order #: 3083414 | Initials: LW | Date: 1-30-20 (30 *LW)

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

Cooler #:	1							
Temperature (°C):	2							
Thermometer ID:	318							
Radiological (µCi):								

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

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

Rev 1/20/2020

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December 4, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3071914**
Purchase Order:		Workorder ID:	**UST Testing 11/21/19**

Dear Mr. VanWagenen:

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

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

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

Jessica Lee Smith
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3071914 UST Testing 11/21/19

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3071914001	MW-12-18	Solid	11/21/2019 09:30	11/22/2019 20:50	Mr. John VanWagenen
3071914002	MW-12-26	Solid	11/21/2019 10:30	11/22/2019 20:50	Mr. John VanWagenen
3071914003	MW-12-31	Solid	11/21/2019 11:30	11/22/2019 20:50	Mr. John VanWagenen
3071914004	MW-12-36	Solid	11/21/2019 12:30	11/22/2019 20:50	Mr. John VanWagenen
3071914005	MW-12-41	Solid	11/21/2019 13:30	11/22/2019 20:50	Mr. John VanWagenen
3071914006	MW-12-54	Solid	11/21/2019 14:30	11/22/2019 20:50	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3071914 UST Testing 11/21/19

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: 3071914 UST Testing 11/21/19

Lab ID: **3071914001** Date Collected: 11/21/2019 09:30 Matrix: Solid
Sample ID: **MW-12-18** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	926		ug/kg	61.3	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Ethylbenzene	21800		ug/kg	613	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
Isopropylbenzene	3970		ug/kg	61.3	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Methyl t-Butyl Ether	ND		ug/kg	61.3	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Naphthalene	9260		ug/kg	123	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Toluene	47100		ug/kg	613	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Total Xylenes	125000		ug/kg	1840	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
1,2,4-Trimethylbenzene	66200		ug/kg	613	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
1,3,5-Trimethylbenzene	19800		ug/kg	613	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	131		%	71 - 146	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
1,2-Dichloroethane-d4 (S)	135		%	71 - 146	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
4-Bromofluorobenzene (S)	101		%	46 - 138	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
4-Bromofluorobenzene (S)	73.4		%	46 - 138	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
Dibromofluoromethane (S)	66.1		%	42 - 143	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Dibromofluoromethane (S)	63		%	42 - 143	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
Toluene-d8 (S)	110		%	54 - 141	SW846 8260B	11/21/19 09:30	JTH	11/28/19 02:53	VLM	A
Toluene-d8 (S)	77.6		%	54 - 141	SW846 8260B	11/21/19 09:30	JTH	12/3/19 05:01	PDK	A
WET CHEMISTRY										
Moisture	23.2		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	76.8		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

Lab ID: **3071914002** Date Collected: 11/21/2019 10:30 Matrix: Solid

Sample ID: **MW-12-26** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3430		ug/kg	63.5	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Ethylbenzene	12800		ug/kg	635	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
Isopropylbenzene	1820		ug/kg	63.5	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Methyl t-Butyl Ether	ND		ug/kg	63.5	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Naphthalene	6030		ug/kg	127	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Toluene	45400		ug/kg	635	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
Total Xylenes	67400		ug/kg	1900	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
1,2,4-Trimethylbenzene	31700		ug/kg	635	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
1,3,5-Trimethylbenzene	11400		ug/kg	63.5	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	105		%	71 - 146	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
1,2-Dichloroethane-d4 (S)	107		%	71 - 146	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
4-Bromofluorobenzene (S)	98.5		%	46 - 138	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
4-Bromofluorobenzene (S)	75.8		%	46 - 138	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
Dibromofluoromethane (S)	65.8		%	42 - 143	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
Dibromofluoromethane (S)	69.2		%	42 - 143	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
Toluene-d8 (S)	81.1		%	54 - 141	SW846 8260B	11/21/19 10:30	JTH	12/3/19 05:23	PDK	A
Toluene-d8 (S)	103		%	54 - 141	SW846 8260B	11/21/19 10:30	JTH	11/28/19 03:15	VLM	A
WET CHEMISTRY										
Moisture	18.8		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	81.2		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

Lab ID: **3071914003** Date Collected: 11/21/2019 11:30 Matrix: Solid
Sample ID: **MW-12-31** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5520		ug/kg	58.5	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
Ethylbenzene	46300		ug/kg	585	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
Isopropylbenzene	6280		ug/kg	58.5	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
Methyl t-Butyl Ether	ND		ug/kg	58.5	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
Naphthalene	18700	1	ug/kg	1170	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
Toluene	130000		ug/kg	2340	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
Total Xylenes	270000		ug/kg	1750	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
1,2,4-Trimethylbenzene	115000		ug/kg	2340	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
1,3,5-Trimethylbenzene	38300		ug/kg	585	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	139		%	71 - 146	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
1,2-Dichloroethane-d4 (S)	71.3		%	71 - 146	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
1,2-Dichloroethane-d4 (S)	142		%	71 - 146	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
4-Bromofluorobenzene (S)	88.8		%	46 - 138	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
4-Bromofluorobenzene (S)	93		%	46 - 138	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
4-Bromofluorobenzene (S)	72.9		%	46 - 138	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
Dibromofluoromethane (S)	65.2		%	42 - 143	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
Dibromofluoromethane (S)	68.2		%	42 - 143	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
Dibromofluoromethane (S)	55.2		%	42 - 143	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
Toluene-d8 (S)	91.9		%	54 - 141	SW846 8260B	11/21/19 11:30	JTH	11/28/19 03:59	VLM	A
Toluene-d8 (S)	74.5		%	54 - 141	SW846 8260B	11/21/19 11:30	TMP	12/3/19 12:36	TMP	A
Toluene-d8 (S)	77.2		%	54 - 141	SW846 8260B	11/21/19 11:30	JTH	12/3/19 05:45	PDK	A
WET CHEMISTRY										
Moisture	16.3		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	83.7		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

Lab ID: **3071914004** Date Collected: 11/21/2019 12:30 Matrix: Solid
Sample ID: **MW-12-36** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1240		ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Ethylbenzene	893		ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Isopropylbenzene	104	2	ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Methyl t-Butyl Ether	ND		ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Naphthalene	1740	4	ug/kg	98.6	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Toluene	5040	1	ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Total Xylenes	5110		ug/kg	148	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
1,2,4-Trimethylbenzene	2610	3	ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
1,3,5-Trimethylbenzene	729		ug/kg	49.3	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.2		%	71 - 146	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
4-Bromofluorobenzene (S)	109		%	46 - 138	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Dibromofluoromethane (S)	82.3		%	42 - 143	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
Toluene-d8 (S)	99.4		%	54 - 141	SW846 8260B	11/21/19 12:30	JTH	11/28/19 04:21	VLM	A
WET CHEMISTRY										
Moisture	13.4		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	86.6		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

Lab ID: **3071914005** Date Collected: 11/21/2019 13:30 Matrix: Solid
Sample ID: **MW-12-41** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2190		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Ethylbenzene	546		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Isopropylbenzene	ND		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Methyl t-Butyl Ether	164		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Naphthalene	575		ug/kg	112	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Toluene	6650		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Total Xylenes	3190		ug/kg	168	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
1,2,4-Trimethylbenzene	716		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
1,3,5-Trimethylbenzene	187		ug/kg	55.9	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91.9		%	71 - 146	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Dibromofluoromethane (S)	80		%	42 - 143	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
Toluene-d8 (S)	110		%	54 - 141	SW846 8260B	11/21/19 13:30	JTH	11/28/19 03:37	VLM	A
WET CHEMISTRY										
Moisture	15.0		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	85.0		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:15 PM

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

Lab ID: **3071914006** Date Collected: 11/21/2019 14:30 Matrix: Solid

Sample ID: **MW-12-54** Date Received: 11/22/2019 20:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	3900		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Ethylbenzene	816		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Isopropylbenzene	ND		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Methyl t-Butyl Ether	4420		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Naphthalene	829		ug/kg	100	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Toluene	9490		ug/kg	50.0	SW846 8260B	11/21/19 14:30	TMP	12/3/19 12:58	TMP	A
Total Xylenes	4710		ug/kg	150	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
1,2,4-Trimethylbenzene	749		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
1,3,5-Trimethylbenzene	184		ug/kg	50.0	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	80.5		%	71 - 146	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
1,2-Dichloroethane-d4 (S)	59.6	5	%	71 - 146	SW846 8260B	11/21/19 14:30	TMP	12/3/19 12:58	TMP	A
4-Bromofluorobenzene (S)	99.9		%	46 - 138	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
4-Bromofluorobenzene (S)	61.1		%	46 - 138	SW846 8260B	11/21/19 14:30	TMP	12/3/19 12:58	TMP	A
Dibromofluoromethane (S)	75.6		%	42 - 143	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
Dibromofluoromethane (S)	55.7		%	42 - 143	SW846 8260B	11/21/19 14:30	TMP	12/3/19 12:58	TMP	A
Toluene-d8 (S)	62.4		%	54 - 141	SW846 8260B	11/21/19 14:30	TMP	12/3/19 12:58	TMP	A
Toluene-d8 (S)	99.5		%	54 - 141	SW846 8260B	11/21/19 14:30	JTH	11/27/19 23:35	VLM	A
WET CHEMISTRY										
Moisture	23.4		%	0.1	S2540G-11			11/26/19 11:05	AXD	
Total Solids	76.6		%	0.1	S2540G-11			11/26/19 11:05	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071914 UST Testing 11/21/19

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3071914003	1	MW-12-31	SW846 8260B	Naphthalene
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 38.2 and the control limits were 46 to 142.				
3071914004	1	MW-12-36	SW846 8260B	Toluene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Toluene. The % Recovery was reported as 242 and the control limits were 73 to 134.				
3071914004	2	MW-12-36	SW846 8260B	Isopropylbenzene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 139 and the control limits were 72 to 137.				
3071914004	3	MW-12-36	SW846 8260B	1,2,4-Trimethylbenzene
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte 1,2,4-Trimethylbenzene. The % Recovery was reported as 72.5 and the control limits were 75 to 134.				
3071914004	4	MW-12-36	SW846 8260B	Naphthalene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 182 and the control limits were 46 to 142.				
3071914006	5	MW-12-54	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 59.6 and the control limits were 71 to 146. This result was reported at a dilution of 50.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3071914 UST Testing 11/21/19

Lab ID	Sample ID	Analysis Method	Prep Method
3071914001	MW-12-18	S2540G-11	
3071914001	MW-12-18	SW846 8260B	SW846 5035
3071914002	MW-12-26	S2540G-11	
3071914002	MW-12-26	SW846 8260B	SW846 5035
3071914003	MW-12-31	S2540G-11	
3071914003	MW-12-31	SW846 8260B	SW846 5035
3071914004	MW-12-36	S2540G-11	
3071914004	MW-12-36	SW846 8260B	SW846 5035
3071914005	MW-12-41	S2540G-11	
3071914005	MW-12-41	SW846 8260B	SW846 5035
3071914006	MW-12-54	S2540G-11	
3071914006	MW-12-54	SW846 8260B	SW846 5035

ALS Environmental
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 #:

* 3 0 7 1 9 1 4 *

Co. Name: Coventry Env. Assoc
Contact (Report to): John Van Wagenen
Phone: 610-469-6540
Address: PO Box 224
St. Peters, PA 19470

Bill to (if different than Report to): Sam Q
PO#:

Project Name/#: UTS
ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? -Y
Fax? -Y No.:

	Container Type	Container Size	Preservative
Analysis 1	glass	vial	MeOH
Analysis 2	glass	vial	DI
Analysis 3	glass	4 oz	none

ANALYSES/METHOD REQUESTED: PADEP unleaded gasoline

Cooler Temp: 0°C
Therm. ID: 318
No. of Coolers:
Notes:

#	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Analysis 1	Analysis 2	Analysis 3
1	MW-12-18		11/21/19	9:30	G	SO	1	2	1
2	MW-12-26		↓	10:30	↓	↓	1	2	1
3	MW-12-31		↓	11:30	↓	↓	1	2	1
4	MW-12-36		↓	12:30	↓	↓	1	2	1
5	MW-12-41		↓	13:30	↓	↓	1	2	1
6	MW-12-54		↓	14:30	↓	↓	1	2	1
7									
8									

Enter Number of Containers Per Analysis

Circle appropriate Y or N.

Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
Custody seals Present?	Y	N
(If present) Seals Intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N

SAMPLED BY (Please Print): John Van Wagenen

Project Comments:

#	Relinquished By / Company Name	Date	Time	#	Received By / Company Name	Date	Time
1	[signature]	11/21/19	1725	2	Chris Edleman	11/21/19	1725
3	[signature]	11/21/19	1725	4	COMMON COURIER / ALS COURIER		
5	COMMON COURIER / ALS COURIER			6	[signature]	11/21/19	2050
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] ___
EDDs Required? If yes, format type:
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ] Other
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Enter PWSID No.
DOD Criteria Required?

ALS FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
Rev 01-2019

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

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
Coventry Env.	3071914	QD	11/23/19

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 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):	0							
Thermometer ID:	318							
Radiological (µCi):								

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

Rev. 4/29/2019

ALS Environmental

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November 26, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3071289**
Purchase Order:		Workorder ID:	**UTS 11/19-20/19**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, November 20, 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.

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

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

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:20 PM

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SAMPLE SUMMARY

Workorder: 3071289 UTS 11/19-20/19

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3071289001	MW-10-24	Solid	11/19/2019 12:00	11/20/2019 21:10	Collected by Client
3071289002	MW-10-26	Solid	11/19/2019 12:30	11/20/2019 21:10	Collected by Client
3071289003	MW-10-47	Solid	11/19/2019 13:00	11/20/2019 21:10	Collected by Client
3071289004	MW-11-55	Solid	11/20/2019 11:30	11/20/2019 21:10	Collected by Client

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SAMPLE SUMMARY

Workorder: 3071289 UTS 11/19-20/19

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: 3071289 UTS 11/19-20/19

Lab ID: **3071289001** Date Collected: 11/19/2019 12:00 Matrix: Solid
Sample ID: **MW-10-24** Date Received: 11/20/2019 21:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Ethylbenzene	ND		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Isopropylbenzene	57.5		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Methyl t-Butyl Ether	ND		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Naphthalene	ND		ug/kg	107	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Toluene	ND		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Total Xylenes	ND		ug/kg	161	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
1,2,4-Trimethylbenzene	675		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
1,3,5-Trimethylbenzene	227		ug/kg	53.5	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	105		%	71 - 146	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
4-Bromofluorobenzene (S)	94.3		%	46 - 138	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Dibromofluoromethane (S)	96.3		%	42 - 143	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
Toluene-d8 (S)	101		%	54 - 141	SW846 8260B	11/19/19 12:00	JTH	11/26/19 02:15	PDK	C
WET CHEMISTRY										
Moisture	22.0		%	0.1	S2540G-11			11/22/19 10:50	AXD	
Total Solids	78.0		%	0.1	S2540G-11			11/22/19 10:50	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:22 PM

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3071289 UTS 11/19-20/19

Lab ID: **3071289002** Date Collected: 11/19/2019 12:30 Matrix: Solid

Sample ID: **MW-10-26** Date Received: 11/20/2019 21:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Ethylbenzene	172		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Isopropylbenzene	ND		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Methyl t-Butyl Ether	ND		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Naphthalene	ND		ug/kg	155	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Toluene	ND		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Total Xylenes	357		ug/kg	232	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
1,2,4-Trimethylbenzene	424		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
1,3,5-Trimethylbenzene	228		ug/kg	77.3	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	114		%	71 - 146	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
4-Bromofluorobenzene (S)	105		%	46 - 138	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Dibromofluoromethane (S)	108		%	42 - 143	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
Toluene-d8 (S)	113		%	54 - 141	SW846 8260B	11/19/19 12:30	JTH	11/26/19 02:37	PDK	C
WET CHEMISTRY										
Moisture	25.9		%	0.1	S2540G-11			11/22/19 10:50	AXD	
Total Solids	74.1		%	0.1	S2540G-11			11/22/19 10:50	AXD	

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ANALYTICAL RESULTS

Workorder: 3071289 UTS 11/19-20/19

Lab ID: **3071289003** Date Collected: 11/19/2019 13:00 Matrix: Solid
Sample ID: **MW-10-47** Date Received: 11/20/2019 21:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Ethylbenzene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Isopropylbenzene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Methyl t-Butyl Ether	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Naphthalene	ND		ug/kg	123	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Toluene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Total Xylenes	ND		ug/kg	185	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
1,2,4-Trimethylbenzene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
1,3,5-Trimethylbenzene	ND		ug/kg	61.6	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	116		%	71 - 146	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
4-Bromofluorobenzene (S)	108		%	46 - 138	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Dibromofluoromethane (S)	107		%	42 - 143	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
Toluene-d8 (S)	115		%	54 - 141	SW846 8260B	11/19/19 13:00	JTH	11/26/19 02:59	PDK	C
WET CHEMISTRY										
Moisture	24.3		%	0.1	S2540G-11			11/22/19 10:50	AXD	
Total Solids	75.7		%	0.1	S2540G-11			11/22/19 10:50	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3071289 UTS 11/19-20/19

Lab ID: **3071289004** Date Collected: 11/20/2019 11:30 Matrix: Solid
Sample ID: **MW-11-55** Date Received: 11/20/2019 21:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Ethylbenzene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Isopropylbenzene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Methyl t-Butyl Ether	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Naphthalene	ND		ug/kg	117	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Toluene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Total Xylenes	ND		ug/kg	176	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
1,2,4-Trimethylbenzene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
1,3,5-Trimethylbenzene	ND		ug/kg	58.6	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	123		%	71 - 146	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
4-Bromofluorobenzene (S)	111		%	46 - 138	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Dibromofluoromethane (S)	109		%	42 - 143	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
Toluene-d8 (S)	115		%	54 - 141	SW846 8260B	11/20/19 11:30	JTH	11/26/19 03:21	PDK	C
WET CHEMISTRY										
Moisture	13.8		%	0.1	S2540G-11			11/22/19 10:50	AXD	
Total Solids	86.2		%	0.1	S2540G-11			11/22/19 10:50	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:24 PM

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3071289 UTS 11/19-20/19

Lab ID	Sample ID	Analysis Method	Prep Method
3071289001	MW-10-24	S2540G-11	
3071289001	MW-10-24	SW846 8260B	SW846 5035
3071289002	MW-10-26	S2540G-11	
3071289002	MW-10-26	SW846 8260B	SW846 5035
3071289003	MW-10-47	S2540G-11	
3071289003	MW-10-47	SW846 8260B	SW846 5035
3071289004	MW-11-55	S2540G-11	
3071289004	MW-11-55	SW846 8260B	SW846 5035

ALS Environmental

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 #:

* 3 0 7 1 2 8 9 *

Co. Name: Coventry Env. Assoc
Contact (Report to): John VanNoggeren
Phone: 610-469-6540
Address: PO Box 224
St. Peters, PA 19470

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

Project Name/#: UTS
ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required:
Approved By:

Email? -Y
Fax? -Y No.:

	***Container Type	vial	glass	glass
	***Container Size	glass	vial	402
	**Preservative	H2O #	D.I.	None

ANALYSES/METHOD REQUESTED: PADEP (unleaded gasoline)

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix			
1	MW-10-24		11/19/19	1200	G	SO	1	2	1
2	MW-10-26		↓	12:30	G	↓	1	2	1
3	MW-10-47		↓	13:00	G	↓	1	2	1
4	MW-11-55		11/20/19	11:30	G	↓	1	2	1
5									
6									
7									
8									

Enter Number of Containers Per Analysis

(completed by Sample Receiving) Performed by: [initials]
Cooler Temp: 2
Therm. ID: 515
No. of Coolers:
Notes:

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

Custody seals Present? Y N
(if present) Seals Intact? Y N
Received on Ice? Y N
COC/Labels complete/accurate? Y N
Container in good condition? Y N

SAMPLED BY (Please Print): John Van Noggenot
Project Comments:

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	11/20/19	1725	2	[signature]	11/20/19	1725
3	[signature]	11/20/19		4	COMMON COURIER / ALS COURIER		
5	COMMON COURIER / ALS COURIER			6	[signature]	11-20-19	2100
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? If yes, format type: Other
SDWA Forms? yes [ ] yes [ ] yes [ ] yes [ ]
State Samples Collected In? MD [ ] NJ [ ] NY [ ] PA [ ]
Enter PWSID No.
DOD Criteria Required?

ALS FIELD SERVICES
[ ] Pickup
[ ] Labor
[ ] Composite Sampling
[ ] Rental Equipment
[ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCL, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 01-2013

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

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
Centerra	3071289		11-21-19

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 #:	1							
Temperature (°C):	2							
Thermometer ID:	525							
Radiological (µCi):								

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

Rev. 4/29/2019

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September 26, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3058737**
Purchase Order:		Workorder ID:	**UTS**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 18, 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

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

Jessica Lee Smith
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3058737 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3058737001	SB-13-21	Solid	9/18/2019 09:00	9/18/2019 22:07	Mr. John VanWagenen
3058737002	SB-13-52	Solid	9/18/2019 10:30	9/18/2019 22:07	Mr. John VanWagenen
3058737003	SB-14-21	Solid	9/18/2019 12:00	9/18/2019 22:07	Mr. John VanWagenen
3058737004	SB-14-52	Solid	9/18/2019 14:00	9/18/2019 22:07	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3058737 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: 3058737 UTS

Lab ID: **3058737001** Date Collected: 9/18/2019 09:00 Matrix: Solid

Sample ID: **SB-13-21** Date Received: 9/18/2019 22:07

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Ethylbenzene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Isopropylbenzene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Naphthalene	ND		ug/kg	122	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Toluene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Total Xylenes	ND		ug/kg	182	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	60.8	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	71 - 146	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
4-Bromofluorobenzene (S)	113		%	46 - 138	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Dibromofluoromethane (S)	93.5		%	42 - 143	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
Toluene-d8 (S)	116		%	54 - 141	SW846 8260B	9/18/19 09:00	JTH	9/25/19 00:23	PDK	A
WET CHEMISTRY										
Moisture	23.3		%	0.1	S2540G-11			9/20/19 08:45	AXD	
Total Solids	76.7		%	0.1	S2540G-11			9/20/19 08:45	AXD	

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:30 PM

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3058737 UTS

Lab ID: **3058737002** Date Collected: 9/18/2019 10:30 Matrix: Solid

Sample ID: **SB-13-52** Date Received: 9/18/2019 22:07

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2620		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Ethylbenzene	687		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Isopropylbenzene	ND		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Methyl t-Butyl Ether	729		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Naphthalene	ND		ug/kg	163	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Toluene	5430		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Total Xylenes	3450		ug/kg	245	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
1,2,4-Trimethylbenzene	609		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
1,3,5-Trimethylbenzene	146		ug/kg	81.5	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92.3		%	71 - 146	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
4-Bromofluorobenzene (S)	101		%	46 - 138	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Dibromofluoromethane (S)	78.5		%	42 - 143	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
Toluene-d8 (S)	103		%	54 - 141	SW846 8260B	9/18/19 10:30	JTH	9/25/19 00:45	PDK	A
WET CHEMISTRY										
Moisture	23.7		%	0.1	S2540G-11			9/20/19 08:45	AXD	
Total Solids	76.3		%	0.1	S2540G-11			9/20/19 08:45	AXD	

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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058737 UTS

Lab ID: **3058737003** Date Collected: 9/18/2019 12:00 Matrix: Solid

Sample ID: **SB-14-21** Date Received: 9/18/2019 22:07

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Ethylbenzene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Isopropylbenzene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Naphthalene	ND		ug/kg	129	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Toluene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Total Xylenes	ND		ug/kg	194	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	64.6	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	100		%	71 - 146	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
4-Bromofluorobenzene (S)	108		%	46 - 138	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Dibromofluoromethane (S)	90.7		%	42 - 143	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
Toluene-d8 (S)	114		%	54 - 141	SW846 8260B	9/18/19 12:00	JTH	9/25/19 01:07	PDK	A
WET CHEMISTRY										
Moisture	18.2		%	0.1	S2540G-11			9/20/19 08:45	AXD	
Total Solids	81.8		%	0.1	S2540G-11			9/20/19 08:45	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058737 UTS

Lab ID: **3058737004** Date Collected: 9/18/2019 14:00 Matrix: Solid

Sample ID: **SB-14-52** Date Received: 9/18/2019 22:07

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	656		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Ethylbenzene	238		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Isopropylbenzene	ND		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Methyl t-Butyl Ether	1460		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Naphthalene	542		ug/kg	136	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Toluene	1060		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Total Xylenes	946		ug/kg	204	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
1,2,4-Trimethylbenzene	344		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
1,3,5-Trimethylbenzene	96.1		ug/kg	68.0	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	80.5		%	71 - 146	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
4-Bromofluorobenzene (S)	90.7		%	46 - 138	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Dibromofluoromethane (S)	68.1		%	42 - 143	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
Toluene-d8 (S)	96.1		%	54 - 141	SW846 8260B	9/18/19 14:00	JTH	9/25/19 04:46	PDK	A
WET CHEMISTRY										
Moisture	28.8		%	0.1	S2540G-11			9/20/19 08:45	AXD	
Total Solids	71.2		%	0.1	S2540G-11			9/20/19 08:45	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3058737 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3058737001	SB-13-21	S2540G-11	
3058737001	SB-13-21	SW846 8260B	SW846 5035
3058737002	SB-13-52	S2540G-11	
3058737002	SB-13-52	SW846 8260B	SW846 5035
3058737003	SB-14-21	S2540G-11	
3058737003	SB-14-21	SW846 8260B	SW846 5035
3058737004	SB-14-52	S2540G-11	
3058737004	SB-14-52	SW846 8260B	SW846 5035

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

COC [barcode] of
ALS
30587737

Client Name: Coventry Env. Assoc.
Address: PO Box 224
St. Peters, PA 19470
Contact: John Van Wagenen
Phone#: 610-469-6540
Project Name/#: UTS
Bill To: Same

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ] -Y
Fax? [ ] -Y No.:

W.O. Temp: 6° C Therm ID: 402
Analyst Initials: JAS
Courier/Tracking #:
Purchase Order #:
Project Comments:

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

	Container Type	glass	glass	glass							
	Container Size	vial	vial	4oz							
	Preservative	DI	MeOH	none							

ANALYSES/METHOD REQUESTED: PADEP w/ addl gas

#	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	PADEP w/ addl gas										Sample/COC Comments
						Enter Number of Containers Per Sample or Field Results Below.										
1	SB-13-21	9/18/19	9:00	G	SO	2	1	1								
2	SB-13-52	↓	10:30	↓	↓	2	1	1								
3	SB-14-21	↓	12:00	↓	↓	2	1	1								
4	SB-14-52	↓	14:00	↓	↓	2	1	1								
5																
6																
7																
8																
9																
10																

SAMPLED BY (Please Print): John Van Wagenen
Sampler Comments:

#	Relinquished By / Company Name	Date	Time	#	Received By / Company Name ALS	Date	Time
1	[signature]	9-18-19	1743	2	Beverly Malinoski	9-18-19	1743
3	Beverly Malinoski / ALS	9-18-19	1800	4	ALS Courier		
5	ALS Courier			6	[signature] JAS	9/18/19	2207
7				8			
				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ] [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] [ ] other
Reportable to PADEP? Yes [ ] No [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type-

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

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

Rev 04/19

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

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
Coventry	3058737	LW	9/19/19

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 #:	1							
Temperature (°C):	6							
Thermometer ID:	462							

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

Rev. 1/10/2019

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September 26, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3058339**
Purchase Order:		Workorder ID:	**UTS**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, September 17, 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.

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

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

Jessica Lee Smith
Project Coordinator

6/3/2020 12:55:35 PM

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SAMPLE SUMMARY

Workorder: 3058339 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3058339001	SB-9-16	Solid	9/16/2019 09:30	9/17/2019 21:40	Mr. John VanWagenen
3058339002	SB-9-21	Solid	9/16/2019 11:00	9/17/2019 21:40	Mr. John VanWagenen
3058339003	SB-9-50	Solid	9/16/2019 13:30	9/17/2019 21:40	Mr. John VanWagenen
3058339004	SB-10-24	Solid	9/16/2019 15:30	9/17/2019 21:40	Mr. John VanWagenen
3058339005	SB-10-48	Solid	9/16/2019 17:00	9/17/2019 21:40	Mr. John VanWagenen
3058339006	SB-11-25	Solid	9/17/2019 09:30	9/17/2019 21:40	Mr. John VanWagenen
3058339007	SB-11-54	Solid	9/17/2019 12:00	9/17/2019 21:40	Mr. John VanWagenen
3058339008	SB-12-19	Solid	9/17/2019 13:30	9/17/2019 21:40	Mr. John VanWagenen
3058339009	SB-12-25	Solid	9/17/2019 14:30	9/17/2019 21:40	Mr. John VanWagenen
3058339010	SB-12-31	Solid	9/17/2019 15:30	9/17/2019 21:40	Mr. John VanWagenen
3058339011	SB-12-50	Solid	9/17/2019 17:00	9/17/2019 21:40	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3058339 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

6/3/2020 12:55:37 PM

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339001** Date Collected: 9/16/2019 09:30 Matrix: Solid
Sample ID: **SB-9-16** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Ethylbenzene	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Isopropylbenzene	233		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Naphthalene	ND		ug/kg	128	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Toluene	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Total Xylenes	ND		ug/kg	192	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	64.2	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	119		%	71 - 146	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
4-Bromofluorobenzene (S)	110		%	46 - 138	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Dibromofluoromethane (S)	103		%	42 - 143	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
Toluene-d8 (S)	114		%	54 - 141	SW846 8260B	9/16/19 09:30	PDK	9/22/19 17:55	PDK	A
WET CHEMISTRY										
Moisture	22.4		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	77.6		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339002** Date Collected: 9/16/2019 11:00 Matrix: Solid

Sample ID: **SB-9-21** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Ethylbenzene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Isopropylbenzene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Naphthalene	ND		ug/kg	131	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Toluene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Total Xylenes	ND		ug/kg	197	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	65.6	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	126		%	71 - 146	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
4-Bromofluorobenzene (S)	123		%	46 - 138	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Dibromofluoromethane (S)	112		%	42 - 143	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
Toluene-d8 (S)	134		%	54 - 141	SW846 8260B	9/16/19 11:00	PDK	9/22/19 18:17	PDK	A
WET CHEMISTRY										
Moisture	24.3		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	75.7		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339003** Date Collected: 9/16/2019 13:30 Matrix: Solid
Sample ID: **SB-9-50** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Ethylbenzene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Isopropylbenzene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Naphthalene	ND		ug/kg	158	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Toluene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Total Xylenes	ND		ug/kg	237	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	78.8	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	132		%	71 - 146	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
4-Bromofluorobenzene (S)	133		%	46 - 138	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Dibromofluoromethane (S)	114		%	42 - 143	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
Toluene-d8 (S)	137		%	54 - 141	SW846 8260B	9/16/19 13:30	PDK	9/22/19 18:38	PDK	A
WET CHEMISTRY										
Moisture	23.4		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	76.6		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339004** Date Collected: 9/16/2019 15:30 Matrix: Solid

Sample ID: **SB-10-24** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Ethylbenzene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Isopropylbenzene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Naphthalene	ND		ug/kg	101	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Toluene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Total Xylenes	ND		ug/kg	151	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	50.5	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	157	1	%	71 - 146	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
4-Bromofluorobenzene (S)	162	3	%	46 - 138	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Dibromofluoromethane (S)	140		%	42 - 143	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
Toluene-d8 (S)	166	2	%	54 - 141	SW846 8260B	9/16/19 15:30	PDK	9/22/19 19:00	PDK	A
WET CHEMISTRY										
Moisture	23.3		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	76.7		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339005** Date Collected: 9/16/2019 17:00 Matrix: Solid
Sample ID: **SB-10-48** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1350		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Ethylbenzene	725		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Isopropylbenzene	ND		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Naphthalene	ND		ug/kg	140	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Toluene	4520		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Total Xylenes	3490		ug/kg	210	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
1,2,4-Trimethylbenzene	589		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
1,3,5-Trimethylbenzene	174		ug/kg	70.0	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	129		%	71 - 146	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
4-Bromofluorobenzene (S)	126		%	46 - 138	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Dibromofluoromethane (S)	110		%	42 - 143	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
Toluene-d8 (S)	133		%	54 - 141	SW846 8260B	9/16/19 17:00	PDK	9/22/19 19:22	PDK	A
WET CHEMISTRY										
Moisture	21.3		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	78.7		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339006** Date Collected: 9/17/2019 09:30 Matrix: Solid
Sample ID: **SB-11-25** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	188		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Ethylbenzene	ND		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Isopropylbenzene	ND		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Naphthalene	ND		ug/kg	119	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Toluene	76.6		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Total Xylenes	303		ug/kg	179	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
1,2,4-Trimethylbenzene	68.8		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	59.6	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	71 - 146	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
4-Bromofluorobenzene (S)	112		%	46 - 138	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Dibromofluoromethane (S)	95.7		%	42 - 143	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
Toluene-d8 (S)	117		%	54 - 141	SW846 8260B	9/17/19 09:30	PDK	9/22/19 19:44	PDK	A
WET CHEMISTRY										
Moisture	23.9		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	76.1		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339007** Date Collected: 9/17/2019 12:00 Matrix: Solid

Sample ID: **SB-11-54** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	72.2		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Ethylbenzene	295		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Isopropylbenzene	ND		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Naphthalene	ND		ug/kg	102	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Toluene	350		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Total Xylenes	1660		ug/kg	152	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
1,2,4-Trimethylbenzene	564		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
1,3,5-Trimethylbenzene	187		ug/kg	50.8	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	125		%	71 - 146	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
4-Bromofluorobenzene (S)	126		%	46 - 138	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Dibromofluoromethane (S)	111		%	42 - 143	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
Toluene-d8 (S)	133		%	54 - 141	SW846 8260B	9/17/19 12:00	PDK	9/22/19 20:06	PDK	A
WET CHEMISTRY										
Moisture	10.8		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	89.2		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339008** Date Collected: 9/17/2019 13:30 Matrix: Solid

Sample ID: **SB-12-19** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	4330		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Ethylbenzene	12700		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Isopropylbenzene	1470		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Naphthalene	3370		ug/kg	630	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Toluene	38500		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Total Xylenes	73900		ug/kg	946	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
1,2,4-Trimethylbenzene	28400		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
1,3,5-Trimethylbenzene	8770		ug/kg	315	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	136		%	71 - 146	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
4-Bromofluorobenzene (S)	123		%	46 - 138	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Dibromofluoromethane (S)	110		%	42 - 143	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
Toluene-d8 (S)	133		%	54 - 141	SW846 8260B	9/17/19 13:30	PDK	9/22/19 21:55	PDK	A
WET CHEMISTRY										
Moisture	21.2		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	78.8		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339009** Date Collected: 9/17/2019 14:30 Matrix: Solid
Sample ID: **SB-12-25** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	34200		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Ethylbenzene	37000		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Isopropylbenzene	4260		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Naphthalene	7320		ug/kg	1840	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Toluene	166000		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Total Xylenes	220000		ug/kg	2770	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
1,2,4-Trimethylbenzene	72000		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
1,3,5-Trimethylbenzene	22400		ug/kg	922	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	146		%	71 - 146	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
4-Bromofluorobenzene (S)	122		%	46 - 138	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Dibromofluoromethane (S)	104		%	42 - 143	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
Toluene-d8 (S)	125		%	54 - 141	SW846 8260B	9/17/19 14:30	PDK	9/22/19 22:17	PDK	A
WET CHEMISTRY										
Moisture	32.2		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	67.8		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339010** Date Collected: 9/17/2019 15:30 Matrix: Solid
Sample ID: **SB-12-31** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	9480		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Ethylbenzene	1040		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Isopropylbenzene	ND		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Methyl t-Butyl Ether	127		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Naphthalene	ND		ug/kg	140	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Toluene	12100		ug/kg	350	SW846 8260B	9/17/19 15:30	JTH	9/25/19 05:51	PDK	A
Total Xylenes	5870		ug/kg	210	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
1,2,4-Trimethylbenzene	648		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
1,3,5-Trimethylbenzene	169		ug/kg	69.9	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	131		%	71 - 146	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
1,2-Dichloroethane-d4 (S)	85.4		%	71 - 146	SW846 8260B	9/17/19 15:30	JTH	9/25/19 05:51	PDK	A
4-Bromofluorobenzene (S)	96.9		%	46 - 138	SW846 8260B	9/17/19 15:30	JTH	9/25/19 05:51	PDK	A
4-Bromofluorobenzene (S)	130		%	46 - 138	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Dibromofluoromethane (S)	74.7		%	42 - 143	SW846 8260B	9/17/19 15:30	JTH	9/25/19 05:51	PDK	A
Dibromofluoromethane (S)	112		%	42 - 143	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
Toluene-d8 (S)	94.1		%	54 - 141	SW846 8260B	9/17/19 15:30	JTH	9/25/19 05:51	PDK	A
Toluene-d8 (S)	132		%	54 - 141	SW846 8260B	9/17/19 15:30	PDK	9/22/19 20:28	PDK	A
WET CHEMISTRY										
Moisture	23.1		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	76.9		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
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ANALYTICAL RESULTS

Workorder: 3058339 UTS

Lab ID: **3058339011** Date Collected: 9/17/2019 17:00 Matrix: Solid

Sample ID: **SB-12-50** Date Received: 9/17/2019 21:40

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5250		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Ethylbenzene	770		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Isopropylbenzene	ND		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Methyl t-Butyl Ether	693		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Naphthalene	ND		ug/kg	147	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Toluene	6710		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Total Xylenes	3770		ug/kg	220	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
1,2,4-Trimethylbenzene	495		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
1,3,5-Trimethylbenzene	122		ug/kg	73.4	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	84.8		%	71 - 146	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
4-Bromofluorobenzene (S)	92.8		%	46 - 138	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Dibromofluoromethane (S)	73.6		%	42 - 143	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
Toluene-d8 (S)	96.3		%	54 - 141	SW846 8260B	9/17/19 17:00	TMP	9/23/19 18:21	TMP	A
WET CHEMISTRY										
Moisture	29.0		%	0.1	S2540G-11			9/19/19 08:10	AXD	
Total Solids	71.0		%	0.1	S2540G-11			9/19/19 08:10	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 3058339 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3058339004	1	SB-10-24	SW846 8260B	1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 157 and the control limits were 71 to 146. This result was reported at a dilution of 50.

3058339004	2	SB-10-24	SW846 8260B	Toluene-d8

The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 166 and the control limits were 54 to 141. This result was reported at a dilution of 50.

3058339004	3	SB-10-24	SW846 8260B	4-Bromofluorobenzene

The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 162 and the control limits were 46 to 138. This result was reported at a dilution of 50.

6/3/2020 1:06:54 PM

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3058339 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3058339001	SB-9-16	S2540G-11	
3058339001	SB-9-16	SW846 8260B	SW846 5035
3058339002	SB-9-21	S2540G-11	
3058339002	SB-9-21	SW846 8260B	SW846 5035
3058339003	SB-9-50	S2540G-11	
3058339003	SB-9-50	SW846 8260B	SW846 5035
3058339004	SB-10-24	S2540G-11	
3058339004	SB-10-24	SW846 8260B	SW846 5035
3058339005	SB-10-48	S2540G-11	
3058339005	SB-10-48	SW846 8260B	SW846 5035
3058339006	SB-11-25	S2540G-11	
3058339006	SB-11-25	SW846 8260B	SW846 5035
3058339007	SB-11-54	S2540G-11	
3058339007	SB-11-54	SW846 8260B	SW846 5035
3058339008	SB-12-19	S2540G-11	
3058339008	SB-12-19	SW846 8260B	SW846 5035
3058339009	SB-12-25	S2540G-11	
3058339009	SB-12-25	SW846 8260B	SW846 5035
3058339010	SB-12-31	S2540G-11	
3058339010	SB-12-31	SW846 8260B	SW846 5035
3058339011	SB-12-50	S2540G-11	
3058339011	SB-12-50	SW846 8260B	SW846 5035

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.

COC #:
ALS Quot

* 3 0 5 8 3 3 9 *

Client Name: Coventry Env Assoc
Address: PO Box 224, St. Peters, PA 19470
Contact: John Van Wagoner
Phone#: 610-469-6540
Project Name/#: UTS
Bill To: same

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges. Approved?
Date Required:
Email? [ ]-Y
Fax? [ ]-Y No.:

Container Type: glass | glass | glass
Container Size: Vial | vial | 4oz
Preservative: DI | MeOH | NONE

ANALYSES/METHOD REQUESTED: PAAEP | Unleaded gas

W.O. Temp: 5 Therm ID: 402
Analyst Initials:
Courier/Tracking #:
Purchase Order #:
Project Comments:

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

#	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Enter Number of Containers Per Sample or Field Results Below.			Sample/COC Comments
1	SB-9-16	9/16/19	9:30	G	SO	2	1	1	
2	SB-9-21	↓	11:00	↓	↓	2	1	1	
3	SB-9-50		13:30			2	1	1	
4	SB-10-24		15:30			2	1	1	
5	SB-10-48	↓	17:00			2	1	1	
6	SB-11-25	9/17/19	9:30			2	1	1	
7	SB-11-54	↓	12:00			2	1	1	
8	SB-12-19		13:30			2	1	1	
9	SB-12-25		14:30	↓		2	1	1	
10	~~SB-12-31~~ SB-12-50	↓	~~15:30~~ 17:00		↓	~~2~~ 2	1	1	

SAMPLED BY (Please Print): John Van Wagoner
Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 John Van Wagoner	9-17-19	1740	2 Beverly Majumanko / ALS	9-17-19	1740
3 Beverly Majumanko / ALS	9-17-19	1740	4		
5			6	9/17/19	2140
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOD ☐
Special Processing: USACE ☐ ☐ ☐
State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ ☐ other
Reportable to PADEP? Yes ☐ No ☐
PWSID #
Sample Disposal: Lab ☐ Special ☐
EDDS: Format Type-

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

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

Rev 04/19

ALS

6/3/2020 1:06:55 PM

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

Condition of Sample Receipt Form

Client: Coventry | Work Order #: 3058339 | Initials: LW | Date: 9-18-19

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 #:	1							
Temperature (°C):	5							
Thermometer ID:	462							
Radiological (µCi):								

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

Rev. 4/29/2019

ALS Environmental

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September 10, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3054857**
Purchase Order:		Workorder ID:	**UTS**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 29, 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.

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

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

Jessica Lee Smith
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3054857 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3054857001	MW-6-24	Solid	8/28/2019 10:00	8/29/2019 22:20	Mr. John VanWagenen
3054857002	MW-6-47	Solid	8/28/2019 11:30	8/29/2019 22:20	Mr. John VanWagenen
3054857003	MW-7-28	Solid	8/28/2019 16:30	8/29/2019 22:20	Mr. John VanWagenen

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SAMPLE SUMMARY

Workorder: 3054857 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: 3054857 UTS

Lab ID: **3054857001** Date Collected: 8/28/2019 10:00 Matrix: Solid
Sample ID: **MW-6-24** Date Received: 8/29/2019 22:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	408		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Ethylbenzene	437		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Isopropylbenzene	ND		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Naphthalene	ND		ug/kg	158	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Toluene	1170		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Total Xylenes	2960		ug/kg	237	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
1,2,4-Trimethylbenzene	598		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
1,3,5-Trimethylbenzene	206		ug/kg	79.0	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	144		%	71 - 146	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
4-Bromofluorobenzene (S)	119		%	46 - 138	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Dibromofluoromethane (S)	111		%	42 - 143	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
Toluene-d8 (S)	118		%	54 - 141	SW846 8260B	8/28/19 10:00	TMP	9/3/19 16:13	TMP	A
WET CHEMISTRY										
Moisture	25.0		%	0.1	S2540G-11			9/3/19 07:55	AXD	
Total Solids	75.0		%	0.1	S2540G-11			9/3/19 07:55	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3054857 UTS

Lab ID: **3054857002** Date Collected: 8/28/2019 11:30 Matrix: Solid
Sample ID: **MW-6-47** Date Received: 8/29/2019 22:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Ethylbenzene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Isopropylbenzene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Naphthalene	ND		ug/kg	128	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Toluene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Total Xylenes	ND		ug/kg	191	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
1,2,4-Trimethylbenzene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
1,3,5-Trimethylbenzene	ND		ug/kg	63.8	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	120		%	71 - 146	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
4-Bromofluorobenzene (S)	98.4		%	46 - 138	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Dibromofluoromethane (S)	89.2		%	42 - 143	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
Toluene-d8 (S)	95.5		%	54 - 141	SW846 8260B	8/28/19 11:30	TMP	9/3/19 16:35	TMP	A
WET CHEMISTRY										
Moisture	16.1		%	0.1	S2540G-11			9/3/19 07:55	AXD	
Total Solids	83.9		%	0.1	S2540G-11			9/3/19 07:55	AXD	

Jessica Lee Smith
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ANALYTICAL RESULTS

Workorder: 3054857 UTS

Lab ID: **3054857003** Date Collected: 8/28/2019 16:30 Matrix: Solid

Sample ID: **MW-7-28** Date Received: 8/29/2019 22:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5270		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Ethylbenzene	597		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Isopropylbenzene	ND		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Methyl t-Butyl Ether	ND		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Naphthalene	ND		ug/kg	113	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Toluene	7540		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Total Xylenes	3660		ug/kg	169	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
1,2,4-Trimethylbenzene	594		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
1,3,5-Trimethylbenzene	148		ug/kg	56.4	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	118		%	71 - 146	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
4-Bromofluorobenzene (S)	94.6		%	46 - 138	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Dibromofluoromethane (S)	88.4		%	42 - 143	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A
Toluene-d8 (S)	96.8		%	54 - 141	SW846 8260B	8/28/19 16:30	TMP	9/3/19 16:57	TMP	A

Jessica Lee Smith
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3054857 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3054857001	MW-6-24	S2540G-11	
3054857001	MW-6-24	SW846 8260B	SW846 5035
3054857002	MW-6-47	S2540G-11	
3054857002	MW-6-47	SW846 8260B	SW846 5035
3054857003	MW-7-28	SW846 8260B	SW846 5035

ALS
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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.

COC #:
ALS Quote
* 3 0 5 4 8 5 7 *

Client Name:	County Env. Assoc.
Address:	PO Box 224 St Peters, PA 19470
Contact:	John Van Wogenen
Phone#:	616-469-6540
Project Name/#:	UTS
Bill To:	Same

TAT: [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges. Approved?
Date Required:
Email? [ ] -Y
Fax? [ ] -Y No.:

	Container Type	Container Size	Preservative
	glass	vial	D.I
	glass	vial	HCOH
	glass	4oz	none

ANALYSES/METHOD REQUESTED: PADEP unleaded gasoline

(completed by Receiving Lab)
W.O. Temp: 0 Therm ID: 403
Analyst Initials:
Courier/Tracking #:
Purchase Order #:
Project Comments:

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

Enter Number of Containers Per Sample or Field Results Below.

	Sample Description/Location (as it will appear on the lab report)	Date Collected (dd/mm/yy)	Time hh:mm	*G or C	**Matrix	PADEP unleaded gasoline										Sample/COC Comments
1	MW-6-24	8/28/19	16:00	G	SO	2	1	1								
2	MW-6-47	"	11:30	G	SO	2	1	1								
3	MW-7-28	"	16:30	G	SO	2	1	1								
4																
5																
6																
7																
8																
9																
10																

SAMPLED BY (Please Print): John Van Wagnen
Sampler Comments:

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	8/29/19	1510	2	[signature] ALS	8/29/19	1520
3	[signature] ALS	8/29/19	1525	4	[signature]		
5	[signature]			6	[signature]	8/25/19	2020
7				8			
9				10			

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] [ ] other
Reportable to PADEP? Yes [ ] No [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type-

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

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

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

Condition of Sample Receipt Form

Client: Century | Work Order #: 3054857 | Initials: | Date: 9/6/19

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 #: 1

Temperature (°C): 0

Thermometer ID: 403

Radiological (µCi):

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

Rev. 4/29/2019

ALS Environmental

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September 9, 2019

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

Certificate of Analysis

Revised Report - 9/9/2019 12:27:09 PM - See workorder comment section for explanation

Project Name:	**Routine Sample Submission**	Workorder:	**3054336**
Purchase Order:		Workorder ID:	**VTS**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, August 27, 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.

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

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

Jessica Lee Smith
Project Coordinator

6/3/2020 1:07:03 PM

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SAMPLE SUMMARY

Workorder: 3054336 VTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3054336001	MW-4-20	Solid	8/26/2019 09:30	8/27/2019 21:12	Collected by Client
3054336002	MW-4-25	Solid	8/26/2019 10:30	8/27/2019 21:12	Collected by Client
3054336003	MW-4-31	Solid	8/26/2019 11:30	8/27/2019 21:12	Collected by Client
3054336004	MW-4-37	Solid	8/26/2019 13:00	8/27/2019 21:12	Collected by Client
3054336005	MW-4-47	Solid	8/26/2019 14:30	8/27/2019 21:12	Collected by Client
3054336006	MW-4-56	Solid	8/26/2019 15:30	8/27/2019 21:12	Collected by Client

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SAMPLE SUMMARY

Workorder: 3054336 VTS

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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PROJECT SUMMARY

Workorder: 3054336 VTS

Workorder Comments

Report modified to correct sample ID. jls 09/09/19

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ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336001** Date Collected: 8/26/2019 09:30 Matrix: Solid

Sample ID: **MW-4-20** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5.3		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Ethylbenzene	35.7		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Isopropylbenzene	ND		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Methyl t-Butyl Ether	ND		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Naphthalene	60.2		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Toluene	2.9		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Total Xylenes	60.3		ug/kg	7.8	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
1,2,4-Trimethylbenzene	61.8		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
1,3,5-Trimethylbenzene	15.1		ug/kg	2.6	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92.2		%	56 - 124	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
4-Bromofluorobenzene (S)	103		%	51 - 128	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Dibromofluoromethane (S)	99.2		%	62 - 123	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
Toluene-d8 (S)	101		%	59 - 131	SW846 8260B	8/26/19 09:30	JTH	8/30/19 06:10	PDK	B
WET CHEMISTRY										
Moisture	18.0		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	82.0		%	0.1	S2540G-11			8/29/19 07:00	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336002** Date Collected: 8/26/2019 10:30 Matrix: Solid

Sample ID: **MW-4-25** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	48.9		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Ethylbenzene	99.6		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Isopropylbenzene	4.6		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Methyl t-Butyl Ether	ND		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Naphthalene	123		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Toluene	114		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Total Xylenes	293		ug/kg	10.4	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
1,2,4-Trimethylbenzene	193		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
1,3,5-Trimethylbenzene	46.9		ug/kg	3.5	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.4		%	56 - 124	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
4-Bromofluorobenzene (S)	106		%	51 - 128	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Dibromofluoromethane (S)	99.1		%	62 - 123	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
Toluene-d8 (S)	103		%	59 - 131	SW846 8260B	8/26/19 10:30	JTH	8/30/19 06:35	PDK	B
WET CHEMISTRY										
Moisture	22.9		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	77.1		%	0.1	S2540G-11			8/29/19 07:00	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336003** Date Collected: 8/26/2019 11:30 Matrix: Solid
Sample ID: **MW-4-31** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1600		ug/kg	386	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
Ethylbenzene	488		ug/kg	3.4	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Isopropylbenzene	24.0		ug/kg	3.4	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Methyl t-Butyl Ether	5.1		ug/kg	3.4	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Naphthalene	182		ug/kg	3.4	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Toluene	3610		ug/kg	386	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
Total Xylenes	3260		ug/kg	1160	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
1,2,4-Trimethylbenzene	962		ug/kg	386	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
1,3,5-Trimethylbenzene	168		ug/kg	3.4	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	90.4		%	56 - 124	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
4-Bromofluorobenzene (S)	105		%	51 - 128	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Dibromofluoromethane (S)	97.8		%	62 - 123	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Toluene-d8 (S)	103		%	59 - 131	SW846 8260B	8/26/19 11:30	JTH	8/30/19 07:01	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	102		%	71 - 146	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
4-Bromofluorobenzene (S)	83.9		%	46 - 138	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
Dibromofluoromethane (S)	71.7		%	42 - 143	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
Toluene-d8 (S)	83.3		%	54 - 141	SW846 8260B	8/26/19 11:30	JTH	8/31/19 08:04	VLM	A
WET CHEMISTRY										
Moisture	26.8		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	73.2		%	0.1	S2540G-11			8/29/19 07:00	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336004** Date Collected: 8/26/2019 13:00 Matrix: Solid
Sample ID: **MW-4-37** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	316		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Ethylbenzene	97.6		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Isopropylbenzene	ND		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Methyl t-Butyl Ether	34.2		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Naphthalene	133		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Toluene	753		ug/kg	99.0	SW846 8260B	8/26/19 13:00	JTH	8/31/19 06:59	VLM	A
Total Xylenes	638		ug/kg	10.6	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
1,2,4-Trimethylbenzene	175		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
1,3,5-Trimethylbenzene	40.2		ug/kg	3.5	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	92.4		%	56 - 124	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
4-Bromofluorobenzene (S)	106		%	51 - 128	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Dibromofluoromethane (S)	97.3		%	62 - 123	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Toluene-d8 (S)	103		%	59 - 131	SW846 8260B	8/26/19 13:00	JTH	8/30/19 07:26	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.6		%	71 - 146	SW846 8260B	8/26/19 13:00	JTH	8/31/19 06:59	VLM	A
4-Bromofluorobenzene (S)	80.3		%	46 - 138	SW846 8260B	8/26/19 13:00	JTH	8/31/19 06:59	VLM	A
Dibromofluoromethane (S)	71.1		%	42 - 143	SW846 8260B	8/26/19 13:00	JTH	8/31/19 06:59	VLM	A
Toluene-d8 (S)	78.6		%	54 - 141	SW846 8260B	8/26/19 13:00	JTH	8/31/19 06:59	VLM	A
WET CHEMISTRY										
Moisture	22.0		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	78.0		%	0.1	S2540G-11			8/29/19 07:00	AXD	

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ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336005** Date Collected: 8/26/2019 14:30 Matrix: Solid

Sample ID: **MW-4-47** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	324		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Ethylbenzene	147		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Isopropylbenzene	8.2		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Methyl t-Butyl Ether	32.7		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Naphthalene	109		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Toluene	1290		ug/kg	95.1	SW846 8260B	8/26/19 14:30	JTH	8/31/19 07:21	VLM	A
Total Xylenes	810		ug/kg	9.7	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
1,2,4-Trimethylbenzene	271		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
1,3,5-Trimethylbenzene	76.7		ug/kg	3.2	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.4		%	56 - 124	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
4-Bromofluorobenzene (S)	106		%	51 - 128	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Dibromofluoromethane (S)	96.1		%	62 - 123	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Toluene-d8 (S)	102		%	59 - 131	SW846 8260B	8/26/19 14:30	JTH	8/30/19 07:51	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	71 - 146	SW846 8260B	8/26/19 14:30	JTH	8/31/19 07:21	VLM	A
4-Bromofluorobenzene (S)	88.2		%	46 - 138	SW846 8260B	8/26/19 14:30	JTH	8/31/19 07:21	VLM	A
Dibromofluoromethane (S)	80.1		%	42 - 143	SW846 8260B	8/26/19 14:30	JTH	8/31/19 07:21	VLM	A
Toluene-d8 (S)	88.7		%	54 - 141	SW846 8260B	8/26/19 14:30	JTH	8/31/19 07:21	VLM	A
WET CHEMISTRY										
Moisture	22.4		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	77.6		%	0.1	S2540G-11			8/29/19 07:00	AXD	

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ANALYTICAL RESULTS

Workorder: 3054336 VTS

Lab ID: **3054336006** Date Collected: 8/26/2019 15:30 Matrix: Solid
Sample ID: **MW-4-56** Date Received: 8/27/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	637		ug/kg	90.8	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
Ethylbenzene	145		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Isopropylbenzene	5.1		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Methyl t-Butyl Ether	274		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Naphthalene	96.4		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Toluene	1020		ug/kg	90.8	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
Total Xylenes	879		ug/kg	12.5	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
1,2,4-Trimethylbenzene	152		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
1,3,5-Trimethylbenzene	40.8		ug/kg	4.2	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	91		%	56 - 124	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
4-Bromofluorobenzene (S)	109		%	51 - 128	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Dibromofluoromethane (S)	98		%	62 - 123	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	8/26/19 15:30	JTH	8/30/19 08:16	PDK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	103		%	71 - 146	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
4-Bromofluorobenzene (S)	85		%	46 - 138	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
Dibromofluoromethane (S)	75.7		%	42 - 143	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
Toluene-d8 (S)	83		%	54 - 141	SW846 8260B	8/26/19 15:30	JTH	8/31/19 07:42	VLM	A
WET CHEMISTRY										
Moisture	20.9		%	0.1	S2540G-11			8/29/19 07:00	AXD	
Total Solids	79.1		%	0.1	S2540G-11			8/29/19 07:00	AXD	

Jessica Lee Smith
Project Coordinator

ALS Environmental

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3054336 VTS

Lab ID	Sample ID	Analysis Method	Prep Method
3054336001	MW-4-20	S2540G-11	
3054336001	MW-4-20	SW846 8260B	SW846 5035
3054336002	MW-4-25	S2540G-11	
3054336002	MW-4-25	SW846 8260B	SW846 5035
3054336003	MW-4-31	S2540G-11	
3054336003	MW-4-31	SW846 8260B	SW846 5035
3054336004	MW-4-37	S2540G-11	
3054336004	MW-4-37	SW846 8260B	SW846 5035
3054336005	MW-4-47	S2540G-11	
3054336005	MW-4-47	SW846 8260B	SW846 5035
3054336006	MW-4-56	S2540G-11	
3054336006	MW-4-56	SW846 8260B	SW846 5035

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

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

COC ALS of

30543336

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

Client Name: Coventry Env- Assoc
Address: PO Box 224 St - Peters, PA 19470
Contact: John Van Wagoner
Phone#: 610 - 469 - 6540
Project Name/#: VTS
Bill To: same

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ] -Y
Fax? [ ] -Y No.:

W.O. Temp: O Therm ID: 403
Analyst Initials:
Courier/Tracking #:
Purchase Order #:
Project Comments:

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

ANALYSES/METHOD REQUESTED

	Container Type	glass	glass	glass								
	Container Size	vial	vial	40z								
	Preservative	H.C.	HCl	none								
	*G or C	**Matrix	PADEP unleaded gasoline									
Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm			Enter Number of Containers Per Sample or Field Results Below.								Sample/COC Comments
1 MW-4-20	8/26/19	9:30	G	SO	2	1	1						
2 MW-4-25		10:30			2	1	1						
3 MW-4-31		11:30			2	1	1						
4 MW-4-37		13:00			2	1	1						
5 MW-4-47		14:30			2	1	1						
6 MW-4-56		15:30			2	1	1						
7													
8													
9													
10													

SAMPLED BY (Please Print): John Van Wagoner

Sampler Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	8-27-19	1700	2 Beverly Maimenko / ALS	8-27-19	1700
3 Beverly Maimenko / ALS	8-27-19	1700	4 COMMON COURIER / ALS COURIER		
5 COMMON COURIER / ALS COURIER			6	8/27/19	2112
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE/DOD [ ]
Special Processing: USACE [ ] [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] [ ] other
Reportable to PADEP? Yes [ ] No [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type

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

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

Rev 04/19

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

Condition of Sample Receipt Form

Client: Coventry | Work Order #: 3054336 | Initials: DN | Date: 8/28

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): C

Thermometer ID: 403

Radiological (µCi): ____

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

Rev. 4/29/2019

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August 8, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3049064**
Purchase Order:		Workorder ID:	**VTS 08/01/19**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 1, 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.

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

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

Jessica Lee Smith
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3049064 VTS 08/01/19

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3049064001	GP-4	Solid	8/1/2019 09:30	8/1/2019 22:18	Collected by Client
3049064002	GP-5	Solid	8/1/2019 10:40	8/1/2019 22:18	Collected by Client
3049064003	GP-6	Solid	8/1/2019 11:30	8/1/2019 22:18	Collected by Client
3049064004	GP-7	Solid	8/1/2019 12:40	8/1/2019 22:18	Collected by Client

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SAMPLE SUMMARY

Workorder: 3049064 VTS 08/01/19

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

ALS Environmental

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3049064 VTS 08/01/19

Lab ID: **3049064001** Date Collected: 8/1/2019 09:30 Matrix: Solid
Sample ID: **GP-4** Date Received: 8/1/2019 22:18

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	5080		ug/kg	248	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Ethylbenzene	69400		ug/kg	2480	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
Isopropylbenzene	10200		ug/kg	248	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Methyl t-Butyl Ether	ND		ug/kg	248	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Naphthalene	28500		ug/kg	496	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Toluene	178000		ug/kg	2480	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
Total Xylenes	394000		ug/kg	7440	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
1,2,4-Trimethylbenzene	177000		ug/kg	2480	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
1,3,5-Trimethylbenzene	55300		ug/kg	2480	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	89.4		%	71 - 146	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
1,2-Dichloroethane-d4 (S)	298	1	%	71 - 146	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
4-Bromofluorobenzene (S)	83.5		%	46 - 138	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
4-Bromofluorobenzene (S)	141	3	%	46 - 138	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Dibromofluoromethane (S)	82.6		%	42 - 143	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
Dibromofluoromethane (S)	123		%	42 - 143	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
Toluene-d8 (S)	82.3		%	54 - 141	SW846 8260B	8/1/19 09:30	VLM	8/8/19 07:09	VLM	C
Toluene-d8 (S)	148	2	%	54 - 141	SW846 8260B	8/1/19 09:30	TMP	8/6/19 18:35	TMP	C
WET CHEMISTRY										
Moisture	21.8		%	0.1	S2540G-11			8/5/19 11:50	AXD	
Total Solids	78.2		%	0.1	S2540G-11			8/5/19 11:50	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3049064 VTS 08/01/19

Lab ID: **3049064002** Date Collected: 8/1/2019 10:40 Matrix: Solid
Sample ID: **GP-5** Date Received: 8/1/2019 22:18

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Ethylbenzene	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Isopropylbenzene	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Methyl t-Butyl Ether	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Naphthalene	ND		ug/kg	408	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Toluene	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Total Xylenes	ND		ug/kg	204	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
1,2,4-Trimethylbenzene	ND		ug/kg	136	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
1,3,5-Trimethylbenzene	ND		ug/kg	68.0	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	134		%	71 - 146	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
4-Bromofluorobenzene (S)	127		%	46 - 138	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Dibromofluoromethane (S)	125		%	42 - 143	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
Toluene-d8 (S)	132		%	54 - 141	SW846 8260B	8/1/19 10:40	TMP	8/6/19 18:57	TMP	C
WET CHEMISTRY										
Moisture	17.4		%	0.1	S2540G-11			8/5/19 11:50	AXD	
Total Solids	82.6		%	0.1	S2540G-11			8/5/19 11:50	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3049064 VTS 08/01/19

Lab ID: **3049064003** Date Collected: 8/1/2019 11:30 Matrix: Solid

Sample ID: **GP-6** Date Received: 8/1/2019 22:18

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Ethylbenzene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Isopropylbenzene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Methyl t-Butyl Ether	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Naphthalene	ND		ug/kg	128	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Toluene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Total Xylenes	ND		ug/kg	192	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
1,2,4-Trimethylbenzene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
1,3,5-Trimethylbenzene	ND		ug/kg	64.0	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	142		%	71 - 146	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
4-Bromofluorobenzene (S)	139	1	%	46 - 138	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Dibromofluoromethane (S)	135		%	42 - 143	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
Toluene-d8 (S)	141		%	54 - 141	SW846 8260B	8/1/19 11:30	TMP	8/6/19 19:19	TMP	C
WET CHEMISTRY										
Moisture	24.8		%	0.1	S2540G-11			8/5/19 11:50	AXD	
Total Solids	75.2		%	0.1	S2540G-11			8/5/19 11:50	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3049064 VTS 08/01/19

Lab ID: **3049064004** Date Collected: 8/1/2019 12:40 Matrix: Solid

Sample ID: **GP-7** Date Received: 8/1/2019 22:18

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Ethylbenzene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Isopropylbenzene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Methyl t-Butyl Ether	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Naphthalene	ND		ug/kg	95.2	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Toluene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Total Xylenes	ND		ug/kg	143	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
1,2,4-Trimethylbenzene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
1,3,5-Trimethylbenzene	ND		ug/kg	47.6	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	125		%	71 - 146	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Dibromofluoromethane (S)	115		%	42 - 143	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
Toluene-d8 (S)	121		%	54 - 141	SW846 8260B	8/1/19 12:40	TMP	8/6/19 19:41	TMP	C
WET CHEMISTRY										
Moisture	18.4		%	0.1	S2540G-11			8/5/19 11:50	AXD	
Total Solids	81.6		%	0.1	S2540G-11			8/5/19 11:50	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3049064 VTS 08/01/19

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3049064001	1	GP-4	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 298 and the control limits were 71 to 146. This result was reported at a dilution of 250.				
3049064001	2	GP-4	SW846 8260B	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 148 and the control limits were 54 to 141. This result was reported at a dilution of 250.				
3049064001	3	GP-4	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 141 and the control limits were 46 to 138. This result was reported at a dilution of 250.				
3049064003	1	GP-6	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 139 and the control limits were 46 to 138. This result was reported at a dilution of 50.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3049064 VTS 08/01/19

Lab ID	Sample ID	Analysis Method	Prep Method
3049064001	GP-4	S2540G-11	
3049064001	GP-4	SW846 8260B	SW846 5035
3049064002	GP-5	S2540G-11	
3049064002	GP-5	SW846 8260B	SW846 5035
3049064003	GP-6	S2540G-11	
3049064003	GP-6	SW846 8260B	SW846 5035
3049064004	GP-7	S2540G-11	
3049064004	GP-7	SW846 8260B	SW846 5035

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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.

* 3 0 4 9 0 6 4 *

of

...mation (completed by Receiving Lab)

W.O. Temp: 2.2 Therm ID: 328
Analyst Initials: SAS
Courier/Tracking #:
Purchase Order #:

Project Comments:

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

Client Name: Country Env. Assoc.
Address: PO Box 224, St. Peters PA 19470
Contact: John Van Wagenen
Phone#: 610-489-6540
Project Name/#: UTS
Bill To: same

TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges. Approved?
Date Required:
Email? ☐ -Y
Fax? ☐ -Y No.:

Container Type: glass | glass | glass
Container Size: VOA | 4oz | VOA
Preservative: MeOH | none | DI

ANALYSES/METHOD REQUESTED: PADEP unleaded gasoline

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	Enter Number of Containers Per Sample or Field Results Below.			Sample/COC Comments
1	GP-4	8/1/19	9:30	G	SO	1	1	2	
2	GP-5	↓	10:40	↓	↓	1	1	2	
3	GP-6	↓	11:30	↓	↓	1	1	2	
4	GP-7	↓	12:40	↓	↓	1	1	2	
5	[illegible]								
6									
7									
8									
9									
10									

SAMPLED BY (Please Print): Julius Van Wagenen

Sampler Comments:

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature]	8-1-19	1656	2	Beverly Mahimarko/ALS	8-1-19	1656
3	Beverly Mahimarko/ALS	8-1-19	1654	4	ALS Courier		
5	ALS Courier			6	[signature]	8/1/19	2218
7				8			
9				10			

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOD ☐
Reportable to PADEP? Yes ☐ No ☐
PWSID #
EDDS: Format Type-

Special Processing: USACE ☐ ☐ ☐
Sample Disposal: Lab ☐ Special ☐

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

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

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

Rev 04/19

6/3/2020 1:07:18 PM

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

Condition of Sample Receipt Form

Client: Coventry | Work Order #: 3049064 | Initials: DN | Date: 8/2

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: 318

Radiological (µCi): _____

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

Rev. 4/29/2019

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August 5, 2019

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

Certificate of Analysis

Project Name:	**UST Testing**	Workorder:	**3048835**
Purchase Order:		Workorder ID:	**UTS**

Dear Mr. VanWagenen:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, July 31, 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.

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

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

Jessica Lee Smith
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 3048835 UTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3048835001	GP-1	Solid	7/31/2019 11:30	7/31/2019 21:12	Collected by Client
3048835002	GP-1-2	Solid	7/31/2019 12:00	7/31/2019 21:12	Collected by Client
3048835003	GP-2	Solid	7/31/2019 14:00	7/31/2019 21:12	Collected by Client
3048835004	GP-2-2	Solid	7/31/2019 14:30	7/31/2019 21:12	Collected by Client
3048835005	GP-3	Solid	7/31/2019 15:30	7/31/2019 21:12	Collected by Client

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SAMPLE SUMMARY

Workorder: 3048835 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: 3048835 UTS

Lab ID: **3048835001** Date Collected: 7/31/2019 11:30 Matrix: Solid
Sample ID: **GP-1** Date Received: 7/31/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	2410		ug/kg	734	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Ethylbenzene	157000		ug/kg	3670	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
Isopropylbenzene	15900		ug/kg	734	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	734	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Naphthalene	79400		ug/kg	1470	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Toluene	147000		ug/kg	3670	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
Total Xylenes	1090000		ug/kg	11000	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
1,2,4-Trimethylbenzene	419000		ug/kg	3670	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
1,3,5-Trimethylbenzene	134000		ug/kg	734	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	134		%	71 - 146	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
1,2-Dichloroethane-d4 (S)	64.3	1	%	71 - 146	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
4-Bromofluorobenzene (S)	94.9		%	46 - 138	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
4-Bromofluorobenzene (S)	93.8		%	46 - 138	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
Dibromofluoromethane (S)	78.9		%	42 - 143	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
Dibromofluoromethane (S)	63.8		%	42 - 143	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
Toluene-d8 (S)	72.3		%	54 - 141	SW846 8260B	7/31/19 11:30	PDK	8/3/19 05:00	PDK	A
Toluene-d8 (S)	126		%	54 - 141	SW846 8260B	7/31/19 11:30	PDK	8/2/19 06:26	PDK	A
WET CHEMISTRY										
Moisture	23.1		%	0.1	S2540G-11			8/2/19 09:10	AXD	
Total Solids	76.9		%	0.1	S2540G-11			8/2/19 09:10	AXD	

Jessica Lee Smith
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3048835 UTS

Lab ID: **3048835002** Date Collected: 7/31/2019 12:00 Matrix: Solid

Sample ID: **GP-1-2** Date Received: 7/31/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	558		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Ethylbenzene	564		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Isopropylbenzene	ND		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Naphthalene	147		ug/kg	122	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Toluene	581		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Total Xylenes	1200		ug/kg	183	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
1,2,4-Trimethylbenzene	535		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
1,3,5-Trimethylbenzene	148		ug/kg	61.0	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	71 - 146	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
4-Bromofluorobenzene (S)	111		%	46 - 138	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Dibromofluoromethane (S)	95.5		%	42 - 143	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
Toluene-d8 (S)	109		%	54 - 141	SW846 8260B	7/31/19 12:00	PDK	8/2/19 04:15	PDK	A
WET CHEMISTRY										
Moisture	23.1		%	0.1	S2540G-11			8/2/19 09:10	AXD	
Total Solids	76.9		%	0.1	S2540G-11			8/2/19 09:10	AXD	

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ANALYTICAL RESULTS

Workorder: 3048835 UTS

Lab ID: **3048835003** Date Collected: 7/31/2019 14:00 Matrix: Solid

Sample ID: **GP-2** Date Received: 7/31/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Ethylbenzene	509		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Isopropylbenzene	316		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Naphthalene	ND		ug/kg	83.7	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Toluene	ND		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Total Xylenes	ND		ug/kg	126	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
1,2,4-Trimethylbenzene	2050		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	41.9	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.2		%	71 - 146	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
4-Bromofluorobenzene (S)	103		%	46 - 138	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Dibromofluoromethane (S)	89.1		%	42 - 143	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
Toluene-d8 (S)	104		%	54 - 141	SW846 8260B	7/31/19 14:00	PDK	8/2/19 04:37	PDK	A
WET CHEMISTRY										
Moisture	17.1		%	0.1	S2540G-11			8/2/19 09:10	AXD	
Total Solids	82.9		%	0.1	S2540G-11			8/2/19 09:10	AXD	

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ANALYTICAL RESULTS

Workorder: 3048835 UTS

Lab ID: **3048835004** Date Collected: 7/31/2019 14:30 Matrix: Solid
Sample ID: **GP-2-2** Date Received: 7/31/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Ethylbenzene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Isopropylbenzene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Naphthalene	ND		ug/kg	97.8	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Toluene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Total Xylenes	ND		ug/kg	147	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	48.9	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.6		%	71 - 146	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
4-Bromofluorobenzene (S)	101		%	46 - 138	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Dibromofluoromethane (S)	85.2		%	42 - 143	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
Toluene-d8 (S)	98.8		%	54 - 141	SW846 8260B	7/31/19 14:30	PDK	8/2/19 04:59	PDK	A
WET CHEMISTRY										
Moisture	27.2		%	0.1	S2540G-11			8/2/19 09:10	AXD	
Total Solids	72.8		%	0.1	S2540G-11			8/2/19 09:10	AXD	

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ANALYTICAL RESULTS

Workorder: 3048835 UTS

Lab ID: **3048835005** Date Collected: 7/31/2019 15:30 Matrix: Solid

Sample ID: **GP-3** Date Received: 7/31/2019 21:12

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Ethylbenzene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Isopropylbenzene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Methyl t-Butyl Ether	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Naphthalene	ND		ug/kg	138	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Toluene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Total Xylenes	ND		ug/kg	208	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
1,2,4-Trimethylbenzene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
1,3,5-Trimethylbenzene	ND		ug/kg	69.2	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	80.4		%	71 - 146	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
4-Bromofluorobenzene (S)	83		%	46 - 138	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Dibromofluoromethane (S)	72.3		%	42 - 143	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
Toluene-d8 (S)	81.4		%	54 - 141	SW846 8260B	7/31/19 15:30	PDK	8/2/19 05:21	PDK	A
WET CHEMISTRY										
Moisture	23.9		%	0.1	S2540G-11			8/2/19 09:10	AXD	
Total Solids	76.1		%	0.1	S2540G-11			8/2/19 09:10	AXD	

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ANALYTICAL RESULTS

Workorder: 3048835 UTS

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3048835001	1	GP-1	SW846 8260B	1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 64.3 and the control limits were 71 to 146. This result was reported at a dilution of 2500.

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3048835 UTS

Lab ID	Sample ID	Analysis Method	Prep Method
3048835001	GP-1	S2540G-11	
3048835001	GP-1	SW846 8260B	SW846 5035
3048835002	GP-1-2	S2540G-11	
3048835002	GP-1-2	SW846 8260B	SW846 5035
3048835003	GP-2	S2540G-11	
3048835003	GP-2	SW846 8260B	SW846 5035
3048835004	GP-2-2	S2540G-11	
3048835004	GP-2-2	SW846 8260B	SW846 5035
3048835005	GP-3	S2540G-11	
3048835005	GP-3	SW846 8260B	SW846 5035

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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.

COC # / ALS # : * 3 0 4 8 8 3 5 * — of

(completed by Receiving Lab)
W.O. Temp: 5.2 Therm ID: 38
Analyst Initials: JDB
Courier/Tracking #:
Purchase Order #:
Project Comments:

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

Client Name: Country Env. Assoc.
Address: PO Box 224, St. Peters, PA 19470
Contact: John Van Wagoner
Phone#: 610-469-6540
Project Name/#: OTS
Bill To: Same

TAT ☒ Normal-Standard TAT is 10-12 business days.
☐ Rush-Subject to ALS approval and surcharges. Approved?
Date Required:
Email? ☐-Y
Fax? ☐-Y No.:

Container Type: glass | glass | glass
Container Size: vial | 8oz | vial
Preservative: KOH | none | D.I.

ANALYSES/METHOD REQUESTED: PAPEF | w/added gas

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix	glass vial KOH	glass 8oz none	glass vial D.I.	Sample/COC Comments
1	GP-1	7/31/19	11:30	G	SO	1	1	2	
2	GP-1-2	↓	12:00	↓	↓	1	1	2	
3	GP-2	↓	13:00	↓	↓	1	1	2	
4	GP-2-2	↓	14:30	↓	↓	1	1	2	
5	GP-3	↓	15:30		↓	1	1	2	
6									
7									
8									
9									
10									

Enter Number of Containers Per Sample or Field Results Below.

SAMPLED BY (Please Print): John Van Wagoner
Sampler Comments:

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	John Van Wagoner	7-31-19	1800	2	Beverly Mafamenko / ALS	7-31-19	1800
3	Beverly Mafamenko / ALS	7-31-19	1824	4	ALS COURIER		
5	ALS COURIER			6	[illegible] ALS	7/31/19	2112
7				8			
9				10			

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE/DOD ☐
Reportable to PADEP? Yes ☐ No ☐
PWSID #
EDDS: Format Type-

Special Processing: USACE ☐ ☐ ☐ ☐
Sample Disposal: Lab ☐ Special ☐

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

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

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

Rev 04/19

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 #: 3048835 Initials: DN Date: 8/1

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): 5

Thermometer ID: 318

Radiological (µCi): _____

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

Rev. 4/29/2019