

Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE $^\circ$ MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	ounty		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: LCSWMA			
Address: 3044 RIVER	R ROAD		
Phone No.:	70 00 1 44 05 1		
Sampling Point: Latitude:	57 30.58 Longitude: 76 26 11.25		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL		
Total Well Depth:	ft		
Sampling Depth:	ft. Sampling Method: Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 03/1	4/2022 Sample Collection Time: 2:00 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	03/28/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

03/14/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	13.7	EPA 200.7
CALCIUM, DISSOLVED	13.8	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	18.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10	EPA 200.7
MAGNESIUM, DISSOLVED	10.2	EPA 200.7
MANGANESE, TOTAL (ug/I)	19	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	19	EPA 200.7
NITRATE-NITROGEN	20	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

03/14/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	5.41	FIELD
pH-LAB (SU)	6.84	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	9.3	EPA 200.7
SODIUM, DISSOLVED	8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	243	FIELD
SPEC. COND., LAB (umhos/cm)	235	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	160	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	8	EPA 420.4
TURBIDITY (NTU)	0.12	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

03/14/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



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FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103				
	SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage			
Site Name: F	rey Farm Landfill			
Facility ID (as issued by DEP):	101389			
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION			
INDICATE THE LATITUDE AND LONGI Facility Name: Frey Farm L County: Lancaster C Township or Municipality: MANOR TO	TUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S") _andfill			
Landowner Name: MILLER				
Address: 3052 RIVE	R ROAD			
Phone No.: 39 c Sampling Point: Latitude: Depth to Water Level: 20 c Casing Stick Up: 20 c Total Well Depth: 20 c Sampling Depth: 20 c Well Purged: Yes Sample Field Filtered (must be 0.45 micr Sample Date:(mm/dd/yy) 02/1	9 57 29.85 Longitude: 76 ° 26 ' 11.45 " ft. Measured from: X Land Surface TOC ft. Elevation of Water Level: ft./MSL ft. Sampling Method: Pumped Bailed X No Well Volumes Purged:			
l aboratory(ies) Performing Analysis	ALS Environmental			
(include address and phone number)	301 Fulling Mill Road			
	Middletown, PA 17057 (717) 944-5541			
Lab Accreditation Number(s)	22-293			
Lab Analysis Date 02/25/2022				
Were any holding times exceeded?: Yes X No If yes, please explain in comments field.				
Comments:				

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS MILLER

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.716	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	12.1	EPA 200.7
CALCIUM, DISSOLVED	14.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	16.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.7	EPA 200.7
MAGNESIUM, DISSOLVED	10.1	EPA 200.7
MANGANESE, TOTAL (ug/I)	39	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	44	EPA 200.7
NITRATE-NITROGEN	18.1 E	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

MILLER

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.2	FIELD
pH-LAB (SU)	6.25	SM4500B
POTASSIUM, TOTAL	2.3	EPA 200.7
POTASSIUM, DISSOLVED	2.2	EPA 200.7
SODIUM, TOTAL	7.4	EPA 200.7
SODIUM, DISSOLVED	8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	227	FIELD
SPEC. COND., LAB (umhos/cm)	232	EPA 120.1
SULFATE	2.8	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	204	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.16	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

MILLER

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



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FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE $^\circ$ MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	ounty		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: LCSWMA			
Address: 3056 RIVER	R ROAD		
	57 ' 28 44 " Learnitudes 76 9 26 ' 10 43 "		
Sampling Point: Latitude:	<u>57 20.44</u> Longitude: <u>70 20 10.40</u>		
	TL. Measured from: X Land Surface I TOC		
Sampling Depth:	ftSampling Method:PumpedBailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micr			
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 1:47 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/25/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.415	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	10.1	EPA 200.7
CALCIUM, DISSOLVED	12.1	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	20	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.7	EPA 200.7
MAGNESIUM, DISSOLVED	12.6	EPA 200.7
MANGANESE, TOTAL (ug/I)	86	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	110	EPA 200.7
NITRATE-NITROGEN	17.5 E	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.65	FIELD
pH-LAB (SU)	6.7	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	7.5	EPA 200.7
SODIUM, DISSOLVED	9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	216	FIELD
SPEC. COND., LAB (umhos/cm)	222	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	194	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.13	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



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FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP): 1	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	UDE TO THE NEAREST ONE TENTH OF A SECOND (DL° MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County:Lancaster C	ounty		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: LCSWMA			
Address: 3060 RIVER	ROAD		
Phone No.:	FZ ' 27 62 " · · · · · 76 0 26 ' 10 01 "		
Sampling Point: Latitude:	57 27.63 Longitude: 700 20 10.01		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:	ft. # Sampling Method: Dummed Deciled		
Well Purged:			
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 12:56 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/24/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.253	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	10	EPA 200.7
CALCIUM, DISSOLVED	10.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	17.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	55	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.4	EPA 200.7
MAGNESIUM, DISSOLVED	11.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	110	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	120	EPA 200.7
NITRATE-NITROGEN	16.6	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.16	FIELD
pH-LAB (SU)	6.11	SM4500B
POTASSIUM, TOTAL	2.4	EPA 200.7
POTASSIUM, DISSOLVED	2.3	EPA 200.7
SODIUM, TOTAL	7.7	EPA 200.7
SODIUM, DISSOLVED	8.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	237	FIELD
SPEC. COND., LAB (umhos/cm)	231	EPA 120.1
SULFATE	9.3	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	198	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.17	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



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FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE $^\circ$ MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	ounty		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: SENSENIC	4		
Address: 3076 RIVER	R ROAD		
Phone No.:	760 00 1 111		
Sampling Point: Latitude: 390	57 28.2 Longitude: 760 26 11.1		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL		
Total Well Depth:	ft.		
Well Purged: Yes	X No vieli volumes Purged.		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 1:03 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/24/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
 Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.236	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	12.4	EPA 200.7
CALCIUM, DISSOLVED	13.9	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	48.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	7.9	EPA 200.7
MAGNESIUM, DISSOLVED	8.7	EPA 200.7
MANGANESE, TOTAL (ug/I)	150	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	180	EPA 200.7
NITRATE-NITROGEN	9.3	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

SENSENICH

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.7	FIELD
pH-LAB (SU)	6.62	SM4500B
POTASSIUM, TOTAL	3.2	EPA 200.7
POTASSIUM, DISSOLVED	3.5	EPA 200.7
SODIUM, TOTAL	22.5	EPA 200.7
SODIUM, DISSOLVED	25.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	229	FIELD
SPEC. COND., LAB (umhos/cm)	303	EPA 120.1
SULFATE	11.3	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	218	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.12	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS SENSENICH

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section	1103		
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONG Facility Name: Frey Farm L County: Lancaster C	UDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S") andfill ounty WNSHIP		
Landowner Name:			
Address: 3079 RIVER	R ROAD		
Phone No.:			
Sampling Point: Latitude: 39 °	57 21.99 Longitude: 76 26 10.58 "		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL		
Total Well Depth:	ft		
Sampling Depth:	ft. Sampling Method: Demonstration Pumped Bailed		
Well Purged: Yes	X No Well Volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 2:15 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/24/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS LCSWMA

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.175	SM4500D
BICARBONATE ALKALINITY	35	SM20-2321
CALCIUM, TOTAL	8.5	EPA 200.7
CALCIUM, DISSOLVED	10	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	26.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	5.3	EPA 200.7
MAGNESIUM, DISSOLVED	6.2	EPA 200.7
MANGANESE, TOTAL (ug/I)	31	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	40	EPA 200.7
NITRATE-NITROGEN	1 ND	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.81	FIELD
pH-LAB (SU)	6.66	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	11.8	EPA 200.7
SODIUM, DISSOLVED	13.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	192	FIELD
SPEC. COND., LAB (umhos/cm)	198	EPA 120.1
SULFATE	8.3	EPA 300
ALKALINITY	34	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	144	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.15	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

LCSWMA

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section	1103		
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	01389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	FUDE TO THE NEAREST ONE TENTH OF A SECOND (DE $^\circ$ MM' SS.S")		
Facility Name: Frey Farm L	andfill		
County: Lancaster C	ounty		
Township or Municipality: MANOR TC	WNSHIP		
Landowner Name: WEBER			
Address: 3088 RIVER	R ROAD		
Phone No.:			
Sampling Point: Latitude:	57 21 Longitude: $760 26 7.1$		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL		
Total Well Depth:	ft.		
Sampling Depth:	tt. Sampling Metrod. Pumped Bailed		
Well Purged: Yes	X No vveli volumes Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No		
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 1:16 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/25/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS WEBER

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.423	SM4500D
BICARBONATE ALKALINITY	148	SM20-2321
CALCIUM, TOTAL	0.16	EPA 200.7
CALCIUM, DISSOLVED	0.18	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	211	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/I)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.05 ND	EPA 200.7
MAGNESIUM, DISSOLVED	0.1 ND	EPA 200.7
MANGANESE, TOTAL (ug/I)	3.3	EPA 200.7
MANGANESE, DISSOLVED (ug/I)	5 ND	EPA 200.7
NITRATE-NITROGEN	6	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

WEBER

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.03	FIELD
pH-LAB (SU)	8.09	SM4500B
POTASSIUM, TOTAL	0.86	EPA 200.7
POTASSIUM, DISSOLVED	0.77	EPA 200.7
SODIUM, TOTAL	206	EPA 200.7
SODIUM, DISSOLVED	234	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	664	FIELD
SPEC. COND., LAB (umhos/cm)	1140	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	148	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	644	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.16	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

WEBER

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section 1103			
SECTION A. SITE IDENTIFIER			
Applicant/permittee:	ancaster County Solid Waste Manage		
Site Name: F	rey Farm Landfill		
Facility ID (as issued by DEP):	101389		
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION		
INDICATE THE LATITUDE AND LONGI	TUDE TO THE NEAREST ONE TENTH OF A SECOND (DE $^\circ$ MM' SS.S")		
Facility Name: Frey Farm I	andfill		
County: Lancaster C	County		
Township or Municipality: MANOR TO	WNSHIP		
Landowner Name: KIRCHNER			
Address: 3100 RIVE	RROAD		
Phone No.:			
Sampling Point: Latitude:	57 17.9 Longitude: 760 26 6.28		
Depth to Water Level:	ft. Measured from: X Land Surface TOC		
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL		
Total Well Depth:	ft.		
Sampling Depth:			
Well Purged: Yes	X No well volumes Purged:		
Sample Field Filtered (must be 0.45 micr	on)?: X Yes No		
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 1:30 PM		
Laboratory(ies) Performing Analysis	ALS Environmental		
(include address and phone number)	301 Fulling Mill Road		
	Middletown, PA 17057 (717) 944-5541		
Lab Accreditation Number(s)	22-293		
Lab Analysis Date	02/24/2022		
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.		
Comments:			

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.318	SM4500D
BICARBONATE ALKALINITY	23	SM20-2321
CALCIUM, TOTAL	11.6	EPA 200.7
CALCIUM, DISSOLVED	13.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	39	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	5.2	EPA 200.7
MAGNESIUM, DISSOLVED	6.2	EPA 200.7
MANGANESE, TOTAL (ug/I)	7.2	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	9.4	EPA 200.7
NITRATE-NITROGEN	3	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

KIRCHNER

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.89	FIELD
pH-LAB (SU)	6.98	SM4500B
POTASSIUM, TOTAL	1.4	EPA 200.7
POTASSIUM, DISSOLVED	1.5	EPA 200.7
SODIUM, TOTAL	14.2	EPA 200.7
SODIUM, DISSOLVED	17	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	239	FIELD
SPEC. COND., LAB (umhos/cm)	235	EPA 120.1
SULFATE	6.7	EPA 300
ALKALINITY	23	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	184	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.18	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS KIRCHNER

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2



Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

General Reference: Act 101 Section	1103	
	SECTION A. SITE IDENTIFIER	
Applicant/permittee:	ancaster County Solid Waste Manage	
Site Name: F	rey Farm Landfill	
Facility ID (as issued by DEP):	01389	
SEC	TION B. PRIVATE WATER SUPPLY INFORMATION	
INDICATE THE LATITUDE AND LONGI [®] Facility Name:Frey Farm L County:Lancaster C	TUDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S") andfill ounty	
Township or Municipality: MANOR TO	WNSHIP	
Address: 3106 RIV/FE		
Phone No.:		
Sampling Point: Latitude: <u>39</u> ^o <u>57</u> <u>17.27</u> Longitude: <u>76</u> ^o <u>26</u> <u>5.6</u>		
Depth to Water Level:	ft. Measured from: X Land Surface TOC	
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL	
Total Well Depth:	ft. <i>t</i> Sampling Mathed: Discussed Discussed	
Well Purged:		
Sample Field Filtered (must be 0.45 micro	on)?: X res No	
Sample Date:(mm/dd/yy) 02/1		
Laboratory(ies) Performing Analysis	ALS Environmental	
(include address and phone number)	301 Fulling Mill Road	
	Middletown, PA 17057 (717) 944-5541	
Lab Accreditation Number(s)	22-293	
Lab Analysis Date	02/25/2022	
Were any holding times exceeded?: Yes X No If yes, please explain in comments field.		
Comments:		

Facility I.D. Number

101389

Monitoring Point I.D. No.

FRY

PS

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.414	SM4500D
BICARBONATE ALKALINITY	77	SM20-2321
CALCIUM, TOTAL	32	EPA 200.7
CALCIUM, DISSOLVED	39.9	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	97.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.3	EPA 200.7
MAGNESIUM, DISSOLVED	13.8	EPA 200.7
MANGANESE, TOTAL (ug/I)	47	EPA 200.7
MANGANESE, DISSOLVED (ug/I)	58	EPA 200.7
NITRATE-NITROGEN	10.5 E	EPA 300

Facility I.D. Number

101389

Monitoring Point I.D. No.

FRY

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.89	FIELD
pH-LAB (SU)	7.94	SM4500B
POTASSIUM, TOTAL	1.9	EPA 200.7
POTASSIUM, DISSOLVED	2.3	EPA 200.7
SODIUM, TOTAL	33.4	EPA 200.7
SODIUM, DISSOLVED	41.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	432	FIELD
SPEC. COND., LAB (umhos/cm)	593	EPA 120.1
SULFATE	5.1	EPA 300
ALKALINITY	77	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	422	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3	SM 2130B

Facility I.D. Number

101389

Monitoring Point I.D. No.

FRY

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2


COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised 04/13/2022

DEP USE ONLY

Date Received

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

All information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103								
	SECTION A. SITE IDENTIFIER							
Applicant/permittee:	ancaster County Solid Waste Manage							
Site Name: F	rey Farm Landfill							
Facility ID (as issued by DEP):	01389							
SECTION B. PRIVATE WATER SUPPLY INFORMATION								
INDICATE THE LATITUDE AND LONGI [®] Facility Name:Frey Farm L County:Lancaster C	UDE TO THE NEAREST ONE TENTH OF A SECOND (DE° MM' SS.S") andfill ounty							
Township or Municipality: MANOR TO	WNSHIP							
Addrose: 3125 RIV/E								
Phone No.:								
Sampling Point: Latitude:	57 <u>11.6</u> Longitude: <u>76</u> <u>26 5.4</u>							
Depth to Water Level:	ft. Measured from: X Land Surface TOC							
Casing Stick Up:	ft. Elevation of Water Level:ft./MSL							
Total Well Depth:	ft.							
	tt. Sampling Method. Pumped Balled							
Well Purged:								
Sample Field Filtered (must be 0.45 micro	on)?: X Yes No							
Sample Date:(mm/dd/yy) 02/1	1/2022 Sample Collection Time: 2:05 PM							
Laboratory(ies) Performing Analysis	ALS Environmental							
(include address and phone number)	301 Fulling Mill Road							
	Middletown, PA 17057 (717) 944-5541							
Lab Accreditation Number(s)	22-293							
Lab Analysis Date	02/24/2022							
Were any holding times exceeded?:	Yes X No If yes, please explain in comments field.							
Comments:								

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS BECK

Sample Date

02/11/2022

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.215	SM4500D
BICARBONATE ALKALINITY	167	SM20-2321
CALCIUM, TOTAL	6.2	EPA 200.7
CALCIUM, DISSOLVED	6.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	75.7	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.79	EPA 200.7
MAGNESIUM, DISSOLVED	0.89	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.7	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	4.6	EPA 300

T Please indicate detection limit if analyte is not detected.

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

BECK

PS

Sample Date

02/11/2022

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.93	FIELD
pH-LAB (SU)	8.03	SM4500B
POTASSIUM, TOTAL	2.6	EPA 200.7
POTASSIUM, DISSOLVED	2.8	EPA 200.7
SODIUM, TOTAL	127	EPA 200.7
SODIUM, DISSOLVED	137	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	673	FIELD
SPEC. COND., LAB (umhos/cm)	680	EPA 120.1
SULFATE	10.2	EPA 300
ALKALINITY	167	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	464	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

FORM 52 MUNICIPAL WASTE LANDFILL PRIVATE WATER SUPPLY QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

BECK

PS

Sample Date

02/11/2022

2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
CIS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
TRANS 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	0.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.





301 Fulling	Mill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>					
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343							
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3044 RIVER RD</u> <u>3232064</u> 158880 on 3/31/2022					

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Mar 14, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)

Sample ID

Trip Blank



oampic oammary

Lab ID 3232064001 3232064002

Matrix 3044 River Road, Conestoga, PA Water Water

Date Collected 03/14/2022 2:00 PM 03/14/2022 4:09 PM

Date Received 03/14/2022 4:09 PM 03/14/2022 4:09 PM

<u>Collector</u> BGS BGS

Collection Company Analytical Laboratory Service Analytical Laboratory Service



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field \bigcirc Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as gualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141. \bigcirc
- The Chain of Custody document is included as part of this report. \bigcirc
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte J υ
- Indicates that the analyte was Not Detected (ND)
- Ν 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
- Analysis was performed using this container Cntr
- 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**
- Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) I
- (S) Surrogate Compound
- NC Not Calculated
- Result outside of QC limits
- # Please reference the result in the Results Section for analyte-level flags.



		Project Notations
		Sample Notations
Lab ID	Sample ID	
		Result Notations
Notation Ref.		
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.	
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.	

1ST QTR 2022-3044 RIVER RD Project 3232064

Workorder



Client Sample ID Lab Sample ID	3044 River Road, Conestoga, P 3232064001	Α		Collected Lab Receipt	03/14/2022 03/14/2022	2 2:00 PM 2 4:09 PM
<u>Compound</u>	<u>Result</u>	<u>Units</u>	RDL	Met	hod	<u>Flag</u>
FIELD PARAMETE	RS					
pH, Field (SM4500B)	5.41	pH_Units		Field	t	#
Specific Conductance, Field	243	umhos/cm	1	Field	t	#
Temperature	14.10	Deg. C		Field	t	#
METALS						
Calcium, Dissolved	13.8	mg/L	0.10	EPA	200.7	#
Calcium, Total	13.7	mg/L	0.050	EPA	200.7	#
Magnesium, Dissolved	10.2	mg/L	0.10	EPA	200.7	#
Magnesium, Total	10.0	mg/L	0.050	EPA	200.7	#
Manganese, Dissolved	0.019	mg/L	0.0050	EPA	200.7	#
Manganese, Total	0.019	mg/L	0.0025	EPA	200.7	#
Potassium, Dissolved	1.8	mg/L	0.50	EPA	200.7	#
Potassium, Total	2.0	mg/L	0.25	EPA	200.7	#
Sodium, Dissolved	8.0	mg/L	0.50	EPA	200.7	#
Sodium, Total	9.3	mg/L	0.25	EPA	200.7	#
WET CHEMISTRY						
Alkalinity, Bicarbonate	11	mg/L	5	SM2	2320B-2011	#
Alkalinity, Total	11	mg/L	5	SM2	2320B-2011	#
Chloride	18.4	mg/L	2.0	EPA	300.0	#
Nitrate-N	20.0	mg/L	1.0	EPA	300.0	#
рН	6.84	pH_Units		S45	00HB-11	#
Phenolics	0.008	mg/L	0.005	EPA	420.4	#
Specific Conductance	235	umhos/cm	1	SM2	2510B-2011	#
Total Dissolved Solids	160	mg/L	25	S25	40C-11	#
Turbidity	0.12	NTU	0.10	SM2	130B-2011	#

Project1ST QTR 2022-3044 RIVER RDWorkorder3232064

Client Sample ID	3044 River Road, Conestoga, PA	Collected	03/14/2022 2:00 PM
Lab Sample ID	3232064001	Lab Receipt	03/14/2022 4:09 PM

FIELD PARAMETERS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	Prepared	<u>By</u>	Analyzed	<u>By</u>	<u>Cntr</u>
pH, Field (SM4500B)	5.41		pH_Units		Field		N/A	03/14/2022	BGS	Ν
Specific Conductance, Field	243		umhos/cm	1	Field		N/A	03/14/2022	BGS	Ν
Temperature	14.10		Deg. C		Field		N/A	03/14/2022	BGS	Ν

METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Prepared	<u>By</u>	Analyzed	<u>By</u>	<u>Cntr</u>
Calcium, Dissolved	13.8		mg/L	0.10	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Magnesium, Dissolved	10.2		mg/L	0.10	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Manganese, Dissolved	0.019		mg/L	0.0050	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Sodium, Dissolved	8.0		mg/L	0.50	EPA 200.7	03/17/2022	SRT	03/17/2022	SRT	Е
Calcium, Total	13.7		mg/L	0.050	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1
Magnesium, Total	10.0		mg/L	0.050	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1
Manganese, Total	0.019		mg/L	0.0025	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1
Potassium, Total	2.0		mg/L	0.25	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1
Sodium, Total	9.3		mg/L	0.25	EPA 200.7	03/18/2022	JSE	03/21/2022	SRT	D1

VOLATILE ORGANICS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	<u>Method</u>	Prepared	<u>By</u>	Analyzed	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Benzene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Toluene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/16/2022	PDK	К
SURROGATES										
Compound	CAS No			Recovery	Limits(%)				Qual	lifiers
4-Bromofluorobenzene	460-00-4			99.50%	70 – 130					

WET CHEMISTRY



Workorder





Client Sample ID3044 River RoaLab Sample ID3232064001		River Roac 064001	l, Cones	toga, PA		Collected Lab Recei	pt	03/14/202 03/14/202	22 2:00 22 4:09) PM 9 PM	
Compound		<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Prepared	<u>By</u>	Analyzed	By	Cntr
Phenolics		0.008		mg/L	0.005	EPA 420.4	03/22/2022	AKH	03/22/2022	AKH	Н
Total Organic Carbon (TOC)		ND	ND	mg/L	0.50	SM5310B-20	11	N/A	03/15/2022	PAG	F
Chemical Oxygen Demand (COI	D)	ND	ND	mg/L	15	EPA 410.4		N/A	03/23/2022	ALK	С
Ammonia-N		ND	ND	mg/L	0.100	ASTM D6919-09		N/A	03/24/2022	ALK	С
рН		6.84	2	pH_Units		S4500HB-11		N/A	03/18/2022	BXD	А
Alkalinity, Bicarbonate		11		mg/L	5	SM2320B-20	11	N/A	03/18/2022	BXD	А
Alkalinity, Total		11	1	mg/L	5	SM2320B-20	11	N/A	03/18/2022	BXD	А
Chloride		18.4		mg/L	2.0	EPA 300.0		N/A	03/16/2022	M1D	А
Fluoride		ND	ND	mg/L	0.20	EPA 300.0		N/A	03/16/2022	M1D	А
Nitrate-N		20.0		mg/L	1.0	EPA 300.0		N/A	03/16/2022	M1D	А
Nitrite-N		ND	ND	mg/L	1.0	EPA 300.0		N/A	03/16/2022	M1D	А
Specific Conductance		235		umhos/cm	1	SM2510B-20	11	N/A	03/25/2022	BXD	А
Total Dissolved Solids		160		mg/L	25	S2540C-11		N/A	03/17/2022	SMS	А
Turbidity		0.12		NTU	0.10	SM2130B-20	11	N/A	03/15/2022	LXZ	А
Sulfate		ND	ND	mg/L	2.0	EPA 300.0		N/A	03/26/2022	MSA	А
Halogen, Total Organic (TOX)		ND	ND	ug/L	20.0	SW846 9020	3	N/A	03/28/2022	PAG	I



Client Sample IDTrip BlankCollected03/14/2022 4:09 PMLab Sample ID3232064002Lab Receipt03/14/2022 4:09 PM

VOLATILE ORGANICS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Prepared	<u>By</u>	Analyzed	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Benzene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Toluene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2		N/A	03/24/2022	TMP	А
SURROGATES										
Compound	CAS No			Recovery	Limits(%)				<u>Qual</u>	lifiers
4-Bromofluorobenzene	460-00-4			98.30%	70 – 130					



		Sample - Method C	ross Reference Table		
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3232064001	3044 River Road, Conestoga, PA	Field	N/A		
		EPA 200.7	EPA ACID		
		EPA 200.7	EPA TRMD		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		
3232064002	Trip Blank	EPA 524.2	N/A		

	0			CH	IAIN O JEST	FOR /		XI SIS	Gei	nerated by ALS	<u> </u>	coc +			232064	- ť	
(ALS) E1104 011111E118 ^{34 togored lave - Muddetow, PA 1705 - Phone, 717-344 1544 1 - Fax, 301 Fulling Mill Road - Middletown, PA 17057 - 717, 944,5541 + Fax,}	c 717.944.1430		ALL SHA	DED ARE SAMPLE	AS MUS	T BE CC RUCTIO	MPLETE NS ON T	ED BY T	HE CLIE K	NT /		ALS C	10		Ø	5	
Client Name: Lancaster County Solid Waste MA		Container Type	AG	AN	AN	8	1	Ч	님	Ъ	Ц	Ы	ווויר וווויר	וחוומטוון (הטוווףו	פופח אל וזפרנ	iving Lab)	
Address: 1299 Harrisburg Pike, P.O. Box 4424		Container Size	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml	125 ml	500 ml	500 ml	Cooler Temp	: 6 The	m ID: 57	0	T
Lancaster, PA 17604	<u> </u>	reservative	몃	H2SO4	H2SO4	Asc&HCI	1	H2SO4	HN03	HNO3	None	None	lo. of Cor'		>	Initial	Т
Contact: Dan Brown					ANA	LYSES/M	ETHOD R	EQUEST	B								-
Phone#: (717) 735-0193		-												-			
Project Name#: LCSWMA - Ouarterly									,nM		۲,			remp Taken By: WO Temp (°C)			T
Bill To: Lancaster County Solid Waste MA									'6M	eN ,	'‡0		coc/La	Therm ID: 5	0+	9	Τ.
TAT is 10-12 business	: days.								, Fe,	A,n∖	s 'io			Cooler Custody So Sample Custody So	al Intact		10
Rush-Subject to ALS approval and surc	harges.								eD :el	1,eM	'EON	8		Received on Ice Cooler & Samples	ear mudut Intact		6
Date Required: Approved By:								a	stəN	,97 ,	105,	ool	-	Correct Container	s Provided	Ń	
Emails				l		s,00,		л' cc	l bəvi	.s. Ca	ос De' И	-1 , ytir		Adequate Sample	Agree Volumes	ŚŚ	•
Sample Description/Location Sample	i	S or C Matrix	201	-10-0	XOT	524 V	ΕW	I-EHN	Disso BN ,N	letəM	T ,Hq R ,dT	iiibălA	Courier	voa Trip Blank Voa Trip Blank VI≤ 4 Days?	resent		~
(as it will appear on the lab report) Date	Time	•** •		ш	iter Numbe	er of Conta	iners Per \$	Sample or	Field Res	ults Below	-			Rad Screen (uCi)		-	
1 3044RIVERRD 03/14/22	1400	GDV	1 2	Ţ	2	3		1	-	+	~	-		0ourier/Tracking			1
2. Trip Blank 03/14/22	1600	G DM				~								DWA Compliance WSID		Č	T
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10													Composi Other:	e_Sampling	CRental	Equipmer	
Project Comments:	LOGGED BY(s	ignature):					: JAD				s	Stand	ard	pecial Proces	sing Sta	te Sampl	
	REVIEWED BY	(signatur	;e):				I JAG				ta rable		ke	USAC		ollected II	
Relinquished By / Company Name	Date	Time		Receiv	red By / C	ompany	Vame		Date	Time	sC 9vil9	□USAC	ш	Nav) N	
1 XXX NAME > AUS	844-221	603	2	(Jone)	iller.	4 4	ths	6	-24/H/6	6091	a					R	
			4	1							Report	able to P,	ADEP?	Sample Disp	osal X	PA	
CJ.	,		6								Yes			El	P X	SC	
2			8				•				# OISMd			Specie			
6			10								EDDS:	-ormat Typ	e-				
* G=Grab; C=Compos	ite **Mat AI S ENIVI	rix - Al=	Air; DW=D	inking Wat	er; GW=G	oundwater	; OI=OII; O	L=Other I	-iquid; SL-	Sludge; S	O=Soil; W	P=Wipe; \	VW=Wastew	ater			Π-

3/31/2022 9:28 AM

5





301 Fulling	Mill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>
	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022 3052 RIVER RD</u> <u>3227035</u> <u>152371 on 2/28/2022</u>

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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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Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collector Company 3227035001 3052 River Road, Conestoga, PA Water 02/11/2022 12:40 PM 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations			
Lab ID	Sample ID				
3227035001	3052 River Road, Conestoga, PA	Sample temperature upon receipt at lab was greater than 6 °C.			
Sample temperature upon receipt at lab was greater than 6 °C.					
3227035002	Trip Blank	This sample was cancelled per project specifications.			
		Sample temperature upon receipt at lab was greater than 6 °C.			
		Sample temperature upon receipt at lab was greater than 6 °C.			

	Result Notations
Notation #	
0	Result reported exceeds instrument calibration
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.83mg/L and the control limit is less than 0.44mg/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



Client Sample ID	3052 River Road. Conestoga. PA	Collected	02/11/2022 12:40 PM
Lab Sample ID	3227035001	Lab Receipt	02/11/2022 4:38 PM
Volatiles - GC/MS			
EPA 524.2			

<u> </u>	Prep			>	- An	alysis ——		
Method	N/A	<u>Container</u>	3227035001-K(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
Batch	N/A	<u>Aliquot</u>	5 mL		Batch	820860	Dilution	1
Date	N/A	<u>Tech.</u>	N/A	八	<u>Date</u>	02/19/2022 5:41 AM	<u>Analyst</u>	РДК

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C.ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C.ND
Benzene	71-43-2	ND ug/L	0.50	C.ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C.ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C.ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C.ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C.ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	94.70%	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			$\sim c$	- Ar	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227035001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	Date	02/15/2022 1:00 PM	Tech.	SRT	\mathcal{H}	Date	02/17/2022 11:18 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	14.7 mg/L	0.10	C
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	10.1 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.044 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	2.2 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	8.0 mg/L	0.50	С

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Project	1ST QTR 2022 3052 RIVER RD
Workorder	3227035

Client Sample ID	3052 River Road, Conestoga, PA	Collected	02/11/2022 12:40 PM
Lab Sample ID	3227035001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ———			\neg	Ar	alysis ——			
Method	EPATRMD	Container	3227035001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	Aliquot	50 mL		Batch	819300	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 12:08 PM	<u>Analyst</u>	SRT	

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	12.1 mg/L	0.050	С
Iron, Total	7439-89-6	ND mg/L	0.030	C,ND
Magnesium, Total	7439-95-4	8.7 mg/L	0.050	C
Manganese, Total	7439-96-5	0.039 mg/L	0.0025	C
Potassium, Total	7440-09-7	2.3 mg/L	0.25	C
Sodium, Total	7440-23-5	7.4 mg/L	0.25	С

Wet Chemistry (General) EPA 300.0

		Prep		An	alysis ———		
Me	thod	N/A	Container 32270350	5001-A(Unpreserved) <u>Method</u>	EPA 300.0	Fraction	
Ba	<u>tch</u>	N/A	<u>Aliquot</u> 5 mL	Batch	819377	Dilution	2
Da	<u>te</u>	N/A	<u>Tech.</u> N/A	Date	02/12/2022 4:18 PM	<u>Analyst</u>	мір

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chloride	CI	16.8 mg/L	2.0	C.2
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	18.1 mg/L	1.0	C.0
Nitrite-N	NO2	ND mg/L	1.0	C,ND
Sulfate	SO4	2.8 mg/L	2.0	C

Wet Chemistry (General) EPA 410.4

<u> </u>	Prep			(- An	nalysis ———		
Method	N/A	<u>Container</u>	3227035001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction	
Batch	N/A	<u>Aliquot</u>	2 mL		Batch	820242	Dilution	1
Date	N/A	Tech.	N/A	ノし	Date	02/17/2022 11:10 AM	<u>Analyst</u>	ALK

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND



<u>Project</u> Workorder	1ST QTR 2 3227035	2022 3052 RIVER RE)						ALS
Client S Lab San	ample ID nple ID	3052 River 322703500	Road, Cones)1	stoga, PA				Collected Lab Receipt	02/11/2022 12:40 PM 02/11/2022 4:38 PM
Wet Che EPA 420	emistry (Ge).4	eneral)							
	P <u>Method</u> <u>Batch</u> <u>Date</u>	rep 420.4/9066 820317 02/18/2022 8:46 AM	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-H(Sulfuric Acid) 100 mL AKH		Methor Batch Date	Analysis d EPA 420.4 820736 02/18/2022 1:04 PM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 АКН
RESULTS									
Compound Phenolics	1		CAS No PHENOL	<u>Result</u> ND	<u>Units</u> mg/L		<u>RDL</u> 0.005		Qualifiers C,ND
Wet Che SW846 9	emistry (Ge 9020B	eneral)							
	P <u>Method</u> <u>Batch</u> <u>Date</u>	rep N/A N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-I(Sulfuric Acid) 50 mL N/A		Methor Batch Date	Analysis d SW846 9020B 821197 02/21/2022 12:19 PM	Fraction Dilution Analyst	1 PAG
RESULTS									
<u>Compounc</u> Halogen, To	<u>d</u> tal Organic (TC	DX)	CAS No TOX	<u>Result</u> ND	<u>Units</u> ug/L		<u>RDL</u> 20.0		Qualifiers C,ND
Wet Che ASTM D	emistry (Ge 6919-09	eneral)							
	P <u>Method</u> <u>Batch</u> <u>Date</u>	rep N/A N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-C(Sulfuric Acid) 5 mL N/A		Methor Batch Date	Analysis <u>d</u> ASTM D6919-09 820648 02/25/2022 5:54 AI	Fraction Dilution M <u>Analyst</u>	10 ALK
RESULTS									
<u>Compounc</u> Ammonia-N	<u>t</u>		CAS No NH3N	<u>Result</u> 0.716	<u>Units</u> mg/L		<u>RDL</u> 0.100		<u>Qualifiers</u> c
Wet Che SM2130	emistry (Ge B-2011	eneral)							
	Method Batch Date	rep N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-A(Unpreserved) 25 mL N/A		Methor Batch Date	Analysis dSM2130B-2011 819225 02/12/2022 8:06 AN	Fraction Dilution Analyst	1 LXZ

<u>Project</u> Workorder	1ST QTR 2022 3227035	3052 RIVER RD					ALS
Client Sa Lab Sam	mple ID ple ID	3052 River Road, Cones 3227035001	toga, PA			Collected Lab Receipt	02/11/2022 12:40 PM 02/11/2022 4:38 PM
RESULTS							
Compound Turbidity		<u>CAS No</u> Turb	Result 0.16	<u>Units</u> NTU	<u>RDL</u> 0.10		<u>Qualifiers</u> c
Wet Chen SM2320B	nistry (Gene 8-2011	ral)					
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-A(Unpreserved) 50 mL N/A		Analysis Method SM2320B-2011 Batch 819998 Date 02/15/2022 11:49 AM	Fraction Dilution Analyst	1 MLW
RESULTS							
Compound Alkalinity, Bica	arbonate	CAS No HCO3	Result 7	<u>Units</u> mg/L	<u>RDL</u> 5		<u>Qualifiers</u> c
Wet Chen SM2320B	nistry (Gene 8-2011	ral)					
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-A(Unpreserved) 50 mL N/A		Analysis Method SM2320B-2011 Batch 819998 Date 02/15/2022 11:49 AN	Fraction Dilution Analyst	1 MLW
RESULTS							
<u>Compound</u> Alkalinity, Tota	al	<u>CAS No</u> ALKT	<u>Result</u> 7	<u>Units</u> mg/L	<u>RDL</u> 5		Qualifiers C.1
Wet Chen SM2510B	nistry (Gene 3-2011	ral)					
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227035001-A(Unpreserved) 50 mL N/A		Analysis <u>Method</u> SM2510B-2011 <u>Batch</u> 820538 <u>Date</u> 02/18/2022 3:49 PM	Fraction Dilution Analyst	1 BXD
RESULTS							
Compound Specific Cond	ductance	CAS No Cond	Result 232	<u>Units</u> umhos/c	<u>RDL</u> m 1		<u>Qualifiers</u> c
Wet Chen S2540C-1	nistry (Gene I1	ral)					





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<u>Project</u> Workorder	1ST QTR 202 3227035	2 3052 RIVER RD				ALS
Client Sa Lab Sam	mple ID ple ID	3052 River Road, Conestoga, PA 3227035001			Collected Lab Receipt	02/11/2022 12:40 PM 02/11/2022 4:38 PM
RESULTS						
Compound		CAS No	Result Units	<u>RDL</u>		Qualifiers
Temperature		Тетр	14.00 Deg. C			C



		Sample - Method C	ross Reference Table		
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227035001	3052 River Road, Conestoga, PA	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

	Q			HAIN	DF CU	STOD	X	Ge	nerated by ALS		SOC	3227035 1
	• •			20ES1			SIS		NT /			JO GEN - DA BARRAN OL
301 Fulling Mill Road + Middletown, PA 17057 + 717.944.5541 + Fax	.: 717.944.1430		SAMP	LER. INS		NS ON T	HE BAC	K.	2		ALV	
Client Name: LCSWMA - Gerald E. Miller, Sr.	Contair Type	ter AG	AN	AN	80	1	님	ਛ	д	굽	2	ייייטעריין איייאין איי
Address: 3052 River Road	Contair Size	^{ler} 40 n	II 125 m	l 250 ml	40 ml		250 ml	125 ml	125 ml	500 ml	500 ml	Cooler Temp: 11° Therm ID: S子 い
Conestoga, PA 17516	Preserva	ative HC	H2SO	4 H2SO4	Asc&HCI	1	H2SO4	HNO3	HN03	None	None	No. of ^ 1 == ****
Contact: Gerald E. Miller, Sr.			-	AN	ALYSES/M	ETHOD R	EQUEST	_ 				
Phone#: (717) 872-5117								,				Temp Taken By:
Project Name/#: LCSWMA - Quarterly								nM ,	Į	'±'		WO Temp (°C)
Bill To: Lancaster County Solid Waste MA								6M ,	°N '>	' † OS		CC Receipt Info Completed By:
TAT IS 10-12 business	days.							,9귀 ,I	l, nN	ci'a		Cooler Custody Seal Intact Y NOVE
Rush-Subject to ALS approval and surc	harges.							60 :8	4,9M	103		Received on Ice
Date Required: Approved By:							a	sletəl	I,97	٥2' I	CO3	Contert Containers Provided Y N
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Fax?Y No.:	0	2 x	H	>	οΛ		'N-{	solve by	:sle	SpC SpC	ținil	VOA Headspace Present
Sample Description/Location Sample (as it will appear on the lab report) Date	*G or ("Matri	0-0	Enter Numl	524 524 ber of Conta	LL LL iners Per		Field Res	ults Below	,Hq	BAIKa	Courti Ni≤ 4 Days? Y N Y N N Na Later Address Y N N N N N N N N N N N N N N N N N N
1. 3052RIVERRD 02/11/22	1240 G D	0W		2	3		-	+	*	-	+	Courier/Tracking#:
2. Trip Blank 02/11/22	MAS G	M			0							PwsiD
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O												ALS Field Services: Dickup DLabor
10												Composite_Sampling DOther:
Project Comments:	LOGGED BY (signatur	re):				9140		-3111		S	Stand	ard Special Processing State Samples
	REVIEWED BY (signat	ture):				DATE.		-3461		rable rable		ke USACE Collected In
Relinguished By / Company Name	Date Tim		Rec	eived By /	Company I	Name		Date	Time	60 Isvils	Dusac	E Navy
1 K BOW ould Als	2-11-22/63	8 2	AMRF	/AUS			()	2-11-2	16:38	a		2
3		4								Reports	ble to P	ADEP? Sample Disposal X PA
ß		9								Yes	П	Lab X NC
²		∞								# OISMe		Special
б of		10								EDDS: F	ormat Typ	
* G=Grab; C=Composi	ite **Matrix - A ALS ENVIRON	J=Air; DW: MENTAL	Drinking V SHIPPIN	/ater; GW=0 G ADDRE	sroundwater SS: 34 DC		ILANE, I	iquid; SL= MIDDLE	Sludge; S	<u>0=Soil; W</u> A 17057	P=Wipe; \	//W=/Vastewater Rev 8/04





301 Fulling M	iill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>
	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022 3056 RIVER RD</u> <u>3227038</u> 152372 on 2/28/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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.

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Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collection Company 3227038001 3056RIVERRD Water 02/11/2022 1:47 PM 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
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- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
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- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
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- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
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- RPD Relative Percent Difference
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- 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



		Sample Notations
Lab ID	Sample ID	
3227038001	3056RIVERRD	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227038002	TRIP BLANK	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations
Notation #	
0	Result reported exceeds instrument calibration
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.83mg/L and the control limit is less than 0.44mg/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



Client Sample ID 3056RIVERRD Collected 02/11/2022 1:47 PM Lab Sample ID Lab Receipt 3227038001 02/11/2022 4:38 PM Volatiles - GC/MS

EPA 524.2

1	~ I	Prep			\sim	– An	alysis ———		
	Method	N/A	Container	3227038001-K(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	820860	Dilution	1
	Date	N/A	Tech.	N/A		<u>Date</u>	02/19/2022 6:34 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C,ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	89.20%	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			$\sim c$	— An	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227038001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	<u>Date</u>	02/15/2022 1:00 PM	<u>Tech.</u>	SRT	ノし	<u>Date</u>	02/17/2022 11:31 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	12.1 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	12.6 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.11 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	2.4 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	9.0 mg/L	0.50	С

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Project	1ST QTR 2022 3056 RIVER RD
Workorder	3227038

Client Sample ID	3056RIVERRD	Collected	02/11/2022 1:47 PM
Lab Sample ID	3227038001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ——			\neg	Ar	nalysis ———			
Metho	d EPATRMD	Container	3227038001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	<u>Aliquot</u>	50 mL		Batch	819300	Dilution	1	
Date	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 12:30 PM	<u>Analyst</u>	SRT	

RESULTS

CAS NO	Result Units	RDL	Qualifiers
7440-70-2	10.1 mg/L	0.050	C
7439-89-6	ND mg/L	0.030	C,ND
7439-95-4	10.7 mg/L	0.050	C
7439-96-5	0.086 mg/L	0.0025	C
7440-09-7	2.0 mg/L	0.25	C
7440-23-5	7.5 mg/L	0.25	C
	CAS NO 7440-70-2 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7440-23-5	CAS NO Result Units 7440-70-2 10.1 mg/L 7439-89-6 ND mg/L 7439-95-4 10.7 mg/L 7439-96-5 0.086 mg/L 7440-09-7 2.0 mg/L 7440-23-5 7.5 mg/L	CAS No Result Units RUL 7440-70-2 10.1 mg/L 0.050 7439-89-6 ND mg/L 0.030 7439-95-4 10.7 mg/L 0.050 7439-96-5 0.086 mg/L 0.0025 7440-09-7 2.0 mg/L 0.25 7440-23-5 7.5 mg/L 0.25

Wet Chemistry (General) EPA 300.0

1	_	Prep			$\backslash $	— An	alysis —			$\overline{}$
	Method	N/A	Container	3227038001-A(Unpreserved)		Method	EPA 300.0	Fraction		
	Batch	N/A	Aliquot	5 mL		Batch	819377	Dilution	2	
l	Date	N/A	<u>Tech.</u>	N/A	ノし	<u>Date</u>	02/12/2022 4:50 PM	<u>Analyst</u>	M1D	

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	20.0 mg/L	2.0	C,2
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	17.5 mg/L	1.0	C,0
Nitrite-N	NO2	ND mg/L	1.0	C,ND
Sulfate	SO4	ND mg/L	2.0	C,ND

Wet Chemistry (General) EPA 410.4

~ F	Prep			(- An	nalysis ———		
Method	N/A	<u>Container</u>	3227038001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction	
Batch	N/A	<u>Aliquot</u>	2 mL		Batch	820240	Dilution	1
Date	N/A	Tech.	N/A	\mathcal{I}	Date	02/17/2022 11:00 AM	<u>Analyst</u>	ALK

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND

nple ID	2056DIVED								(ALS)
	322703800 ⁻	RD 1					Collected Lab Receipt	02/11/20 02/11/20)22 1:47 PM)22 4:38 PM
nistry (Ge 1	neral)								
— Pr	ер				Ar	nalysis ——			
Method 4	420.4/9066	Container	3227038001-H(Sulfuric Acio		Method	EPA 420.4	Fraction		
Batch 8	320317	Aliquot	100 mL		Batch	820736	Dilution	1	
Date 0)2/18/2022 8:46 AM	Tech.	AKH		<u>Date</u>	02/18/2022 1:09 PM	<u>Analyst</u>	АКН	
		CAS No	Resu	lt Units		RDI			Qualifiers
		PHENOL	N	D mg/L		0.005			C,ND
nistry (Ge 020B	neral)								
— Pr	ep			_	- Ar	nalvsis ——			
		A ()				laryono			
Method N	N/A	Aliquet	3227038001-I(Sulfuric Acid)		Method Batch	SW846 9020B	<u>Fraction</u>	1	
Date N	N/A N/A	Tech.	N/A		Date	02/21/2022 1:21 PM	Analyst	PAG	
		CAS No	Resu	lt Units		RDL			Qualifiers
l Organic (TO	X)	тох	N	D ug/L		20.0			C,ND
nistry (Ge 919-09	neral)								
Dr	en					nalveis			
Mart	-r-	0		$\overline{)}$					
Method N	N/A	Aliquet	3227038001-C(Sulfuric Acid)	Method Batch	ASTM D6919-09	<u>Fraction</u>	10	
Date N	N/A N/A	Tech.	N/A		Date	02/25/2022 6:08 AM	Analvst	ALK	ļ
	<u> </u>				<u></u>				
		CAS No	Resu	lt Units		RDL			Qualifiers
		NH3N	0.41	5 mg/L		0.100			C
nistry (Ge -2011	neral)								
— Pr	ер			$\overline{}$	Ar	nalysis ——			
Method N	N/A	Container	3227038001-A(Unpreserved	i)	Method	SM2130B-2011	Fraction		
Batch N	N/A	Aliquot	25 mL		Batch	819225	Dilution	1	
Date N	N/A	Tech.	N/A	J	Date	02/12/2022 8:06 AM	<u>Analyst</u>	LXZ	J
	Method A Batch A Date C Date C C Date C	Prep Method 420.4/9066 Batch 820317 Date 02/18/2022 8:46 AM iistry (General) 208 Prep Method Method N/A Batch N/A Date N/A Date N/A Organic (TOX)	Prep Method 420.4/9066 Container Batch 820317 Aliquot Date 02/18/2022 8:46 AM Tech. CAS No PHENOL PHENOL Method N/A Container Batch N/A Container Method N/A Container Batch N/A Aliquot Date N/A Container Batch N/A Container Method N/A Container Batch N/A Tech. CAS No Organic (TOX) TOX CAS No Method N/A Container Batch N/A Aliquot Date N/A CAS No NH3N	Prep Method 420.4/9066 Container 3227038001-H(Sutfuric Acid Batch Batch 820317 Aliquot 100 mL Date 02/18/2022 8:46 AM Tech. AKH CAS No Result Prep Method N/A Container 3227038001-H(Sutfuric Acid) Date 0//A Container 3227038001-I(Sutfuric Acid) Batch N/A Container 3227038001-I(Sutfuric Acid) Date N/A Tech. N/A CAS No Result Organic (TOX) TOX N Method N/A CAS No Result Organic (TOX) TOX N Prep Method N/A Container 3227038001-C(Sutfuric Acid Batch N/A Aliquot 5 mL Date N/A Tech. N/A CAS No Result Method N/A CAS No Result N/A	— Prep Method 420.4/9066 Container 3227038001-H(Sulfuric Acid) Batch 820317 Aliquot 100 mL Date 02/18/2022 8:46 AM Tech. AKH CAS No Result Units Pate 02/18/2022 8:46 AM Tech. AKH Structure Vistry (General) 208 — Prep	Prep Prep Ai Method 420 4/9066 Container 3227038001-4(Suffuric Acid) Batch 82037 Aiguot 100 mL Date 02/18/2022 8.46 AM Tech, AKH Container 3227038001-4(Suffuric Acid) Date CAS No Result Units PHENOL ND mg/L istry (General) ZOB Container 3227038001-4(Suffuric Acid) Batch N/A Container 3227038001-4(Suffuric Acid) Date N/A Container 3227038001-4(Suffuric Acid) Date N/A Container 3227038001-2(Suffuric Acid) Date N/A Container 3227038001-4(Unpreserved) Date N/A	Method 420.4/9064 Container 3227038001-H(Sulfuric Acid) Method EPA 420.4 Batch 820307 Aliquid 100 mL Batch 820373 Date 02/18/20228.46 AM Method EPA 420.4 Batch 820307 Tech. AKH AKH Date 02/18/20221.109 PM CAS No Result Units RDL 0.005 uistry (General) 208 - Prep Analysis Method NA Container 3227038001-I(Sulfuric Acid) Method SW846 90208 Batch N/A Aliquid 50 mL Date 02/19/20221:21 PM Organic (TOX) TOX ND ug/L 20.0 20.0 istry (General) 119-09 - Analysis Method Armalysis Method N/A Container 3227038001c(Sulfuric Acid) Method Armalysis Method Stath 320.0 Organic (TOX) TOX ND ug/L 20.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	Analysis Analysis	Analysis Analysis

<u>Project</u> Workorder	1ST QTR 202 3227038	22 3056 RIVER RD									ALS
Client Sar Lab Samp	mple ID ple ID	3056RIVERF 3227038001	RD I						Collected Lab Receipt	02/11/2022 02/11/2022	1:47 PM 4:38 PM
RESULTS											
Compound			CAS No	Re	sult I	Units		RDL			Qualifiers
Turbidity			Turb		0.13	NTU		0.10			C
Wet Chen SM2320B	nistry (Gen -2011	ieral)									
(Pre	р				$\overline{}$	An	alysis —			
ĺ	Method N/	Ά	Container	3227038001-A(Unpreser	ved)		Method	SM2320B-2011	Fraction		
	Batch N/	Ά	<u>Aliquot</u>	50 mL			Batch	819333	Dilution	1	
Ĺ	Date N/	Ά	<u>Tech.</u>	N/A			Date	02/14/2022 11:41 PM	1 <u>Analyst</u>	MLW	
RESULTS											
Compound			CAS No	Re	sult	Units		RDL			Qualifiers
Alkalinity, Bica	arbonate		НСОЗ		7 ו	mg/L		5			С
Wet Chen SM2320B	nistry (Gen -2011 <u>Pre</u> <u>Method</u> N/ <u>Batch</u> N/ <u>Date</u> N/	p /A /A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227038001-A(Unpreser 50 mL N/A	ved)		An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM2320B-2011 819333 02/14/2022 11:41 PM	Fraction Dilution Analyst	1 MLW	
RESULTS											
<u>Compound</u>			CAS No	Re	sult	<u>Units</u>		<u>RDL</u>			Qualifiers
Alkalinity, Tota	al		ALKT		7 ו	mg/L		5			C,1
Wet Chen SM2510B	nistry (Gen -2011	ieral)									
(- Pre	р				$\overline{}$	An An	ialysis ——			
	Method N/	Ά.	Container	3227038001-A(Unpreser	ved)		<u>Method</u>	SM2510B-2011	Fraction		
	Batch N/	Ά	<u>Aliquot</u> Toch	50 mL			Batch Date	820538	<u>Dilution</u>	1	
C		A	<u>1601.</u>	N/A				02/16/2022 3.47 PM	<u>Analysi</u>		
RESULTS											
Compound			CAS No	Re	sult	Units		RDL			Qualifiers
Specific Cond	luctance		Cond		222 (umhos/	cm	1			С
Wet Chen S2540C-1	nistry (Gen 1	ieral)									



Client Sample ID	3056RIVERRD			Collected	02/11/2022 1:47 PM
Lab Sample ID	3227038001			Lab Receipt	02/11/2022 4:38 PM
Prep			– Analysis –––		
Method N/A	Container	3227038001-4(Uppreserved)	Method \$2540C-11	Fraction	
Batch N/A	Aliquot		Batch 820021	Dilution	1
Date N/A	Tech.	N/A	Date 02/16/2022 9:30 AM	Analyst	SMS
RESULTS					
Compound	CAS No	Result Units	RDI		Qualifiers
Total Dissolved Solids	TDS	194 mg/L	25		C
Wet Chemistry (Gene S4500HB-11	eral)				
Prep			Analysis —		
Method N/A	<u>Container</u>	3227038001-A(Unpreserved)	Method S4500HB-11	Fraction	
Batch N/A	Aliquot	50 mL	Batch 819333	Dilution	1
<u>Date</u> N/A	<u>Tech.</u>	N/A	Date 02/14/2022 11:41 PM	<u>Analyst</u>	MLW
RESULTS					
<u>Compound</u>	CAS No	Result Units	<u>RDL</u>		Qualifiers
pН	PH	6.70 pH_Units	3		C,3
Wet Chemistry (Gene SM5310B-2011 Prep	eral)) (- Analysis		
Method N/A	<u>Container</u>	3227038001-F(Hydrochloric Acid)	Method SM5310B-2011	Fraction Dilution	
Batcn N/A	<u>Aliquot</u> Tech	6 mL	Batcn 820047	<u>Dilution</u> Analyst	
	<u></u>		<u>Date</u> 02/13/2022 3.371 M	<u>Analyst</u>	
RESULTS					
<u>Compound</u>	CAS No	Result Units	<u>RDL</u>		Qualifiers
Total Organic Carbon (TOC)	TOC	ND mg/L	0.50		C,ND
FLD Field			- Analysis		
Mothod N/A	Containor	2227028001 N/(Improcented)	Mothod Field	Fraction	
Batch N/A	<u>Container</u> Aliquot	אנטחקרפserved)	Batch 820603	<u>riaction</u> Dilution	1
<u>Date</u> N/A	Tech.	N/A	<u>Date</u> 02/11/2022 12:47 PM	Analyst	BGS
RESULTS					
<u>Compound</u>	CAS No	Result Units	<u>RDL</u>		Qualifiers
pH, Field (SM4500B)	PHF	6.65 pH_Units	3		С
Specific Conductance, Field	CONDF	216 umhos/ci	m 1		С

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<u>Project</u> Workorder	1ST QTR 202 3227038	22 3056 RIVER RD					ALS
Client Sa Lab Sam	mple ID ple ID	3056RIVERRD 3227038001				Collected Lab Receipt	02/11/2022 1:47 PM 02/11/2022 4:38 PM
RESULTS							
<u>Compound</u>		CAS No	Result	<u>Units</u>	RDL		Qualifiers
Temperature		Тетр	14.30	Deg. C			C


Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227038001	3056RIVERRD	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

<	(CH	AIN O	F CUS	STOD	X	Ger	erated by ALS	<u> </u>	coc #	3227038	-
	•	-		REQU	IEST I	ORA	NAL)	'SIS					Logged By: KSB	of
0 34 fogread lare - Middletow, 6, 1735 - Phone. 717 344 5541 + Aux 717 944 549 - www.afkglobi.com 301 Fulling Mill Road + Middletown, PA 17057 + 717.944 5541 + Fax	K: 717.944.1430	AL	L SHAU	eu are/ Samplef	AS MUS R. INSTF				te cliei K.			ALS C		-
Client Name: LCSWMA - Gerald E. Miller, Sr.	- Ö	ntainer Type	AG	AN	AN	g		ď	ᆋ	д	Ъ	Ч	1 Buy	g Lab)
Address: 3052 River Road	Ŝ	ntainer Size	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml	125 ml	500 ml	500 ml	Cooler Temp: 1/ Therm ID: 574	_
Conestoga, PA 17516	Pres	servative	HCI	H2SO4	H2SO4 A	sc&HCI	1	H2SO4	HN03	HN03	None	None	No. of Coolers: Y N Ini	Initial
Contact: Gerald E. Miller, Sr.					ANAL	YSES/ME	THOD R	EQUESTI	le.					
Phone#: (717) 872-5117									۱				0mGr	
Project Name/#: LCSWMA - Quarterly									nM ,	E	'J'		VO Temp (°C)	
Bill To: Lancaster County Solid Waste MA									6M ,	?N '≻	¢OS		(Therm ID: 6-34 Descript lafe Completed BV: PLDF	1
TAT X Normal-Standard TAT is 10-12 business	s days.								ə, Fe	I ,nM	3' CI'		Cooler Custody Seal Intact Y N	
Rush-Subject to ALS approval and surc	charges.) :slei	,9M ,e	:ON 'a	£ C	Received on Ice Cooler & Samples Intact	 }≨
Email? 7.						s		ao	I9M I	.е, F.	ZON	ю	Correct Containers Provided Y N	
Fax?Y No.:	;			F		.00		o 'N⁺	e pəvic	0 :sl	ode SDC	'Aini	Adequate Sample Volumes	5
Sample Description/Location Sample 205L (as it will appear on the lab report) Date	+G or C	kintsM*'	100		er Number	of Contai	LLA Iners Per S	NH3	Field Res	ults Below	3 'Hq	Alka	Cou Voa TripBlank	
1. 305 RIVERRD 02/11/22	O Martin	, A	2	+	2	м х		-	-	÷	-	-	Rad Screen (uCI) Courier/Tracking #:	
2 Trin Blank	N DL	i			I	, ,							SDWA Compliance	
77/11/77 07/11/77	IPAD 6	N N				2							PWSID	
3														
4														
5														
9														
7														
8														
6													ALS Field Services: DPickup DLat	abor
10													LComposite_Sampling LRental_Equip DOther:	ipment
Project Comments:	LOGGED BY(sign	ature):					:3TAQ		-3ML		s	Stand	lard Special Processing State Sar	amples
	REVIEWED BY (si	gnature):					:3TAQ		100		ata Inable		ike USACE Collecte	ted In
Relinquished By / Sompany Name	Date T	Time		Receive	ed By / Co	mpany h	lame		Date	Time	D: Svile		JE Navy Navy Navy	٢
· KID Should ALS	Bub 22 16	R	Æ	NRF	/AL	<u>.</u>		0	-11-22	16:38	a		S	
ю.			_								Report	able to P.	ADEP? Sample Disposal X PA	-
5											Yes		Lab	~
2			_								PWSID#		Special	
8 <u>6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8</u>	**Moteiv		10 								EDDS:	Format Typ	9e	
	ALS ENVIRG	(- AI≓AII ONMEI	TAL SH	IPPING /	ADDRES	S: 34 DO	GWOOD	L=Uther L	iquid; sL=	Sludge, S	0=Soll; w	P=Wipe; \	WW=Wastewater Rev	ev 8/04

2/28/2022 5:13 PM





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	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022 3060 RIVER RD</u> <u>3227039</u> 152378 on 2/28/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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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Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collection Company 3227039001 3060RIVERRD Water 02/11/2022 12:56 PM 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227039001	3060RIVERRD	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227039002	TRIP BLANK	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

		Result Notations
Notation #		
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.	
2	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chlor reported at 0.82mg/L and the control limit is less than 0.44mg/L.	de. The concentration was
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediated 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed outside of the method holding ti	ely" require analysis within yzed in the laboratory.



Client Sample ID 3060RIVERRD Collected 02/11/2022 12:56 PM Lab Sample ID Lab Receipt 3227039001 02/11/2022 4:38 PM Volatiles - GC/MS

EPA 524.2

<u> </u>	Prep			\sim	- Ar	nalysis ———			
Method	N/A	<u>Container</u>	3227039001-K(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace	
Batch	N/A	Aliquot	5 mL		Batch	820860	Dilution	1	
Date	N/A	<u>Tech.</u>	N/A	Л	Date	02/19/20227:00 AM	<u>Analyst</u>	PDK	

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C,ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	90.90%	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			\sim	- Ar	nalysis ———		
	Method	EPA ACID	<u>Container</u>	3227039001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	821208	<u>Aliquot</u>	100 mL		Batch	821209	Dilution	1
	<u>Date</u>	02/21/2022 12:16 PM	Tech.	SRT	\mathcal{I}	<u>Date</u>	02/22/202210:56 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	10.6 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	11.1 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.12 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	2.3 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	8.1 mg/L	0.50	С

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Project	1ST QTR 2022 3060 RIVER RD
Workorder	3227039

Client Sample ID	3060RIVERRD	Collected	02/11/2022 12:56 PM
Lab Sample ID	3227039001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep			\neg	Ar	nalysis ———			
Method	EPATRMD	<u>Container</u>	3227039001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	<u>Aliquot</u>	50 mL		Batch	819300	Dilution	1	
Date	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 12:34 PM	<u>Analyst</u>	SRT	,

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	10 mg/L	0.050	С
Iron, Total	7439-89-6	0.055 mg/L	0.030	C
Magnesium, Total	7439-95-4	10.4 mg/L	0.050	C
Manganese, Total	7439-96-5	0.11 mg/L	0.0025	C
Potassium, Total	7440-09-7	2.4 mg/L	0.25	C
Sodium, Total	7440-23-5	7.7 mg/L	0.25	С

Wet Chemistry (General) EPA 300.0

(Prep) (- An	ialysis ——			7
	<u>Method</u>	N/A	<u>Container</u>	3227039001-A(Unpreserved)		Method	EPA 300.0	Fraction		
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	819377	Dilution	2	
l	<u>Date</u>	N/A	<u>Tech.</u>	N/A	八	Date	02/12/2022 6:12 PM	<u>Analyst</u>	M1D	ر

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	17.4 mg/L	2.0	C.2
Fluoride	F	ND mg/L	0.20	C.ND
Nitrate-N	NO3	16.6 mg/L	1.0	C
Nitrite-N	NO2	ND mg/L	1.0	C,ND
Sulfate	SO4	9.3 mg/L	2.0	C

Wet Chemistry (General) EPA 410.4

Prep		Analysis —		
Method N/A	Container 3227039001-C(Sulfuric Acid)	Method EPA 410.4	Fraction	
Batch N/A	Aliquot 2 mL	Batch 820240	Dilution 1	
Date N/A	Tech. N/A	Date 02/17/2022 11:00 AM	<u>Analyst</u> ALK	J

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	<u>Qualifiers</u>
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND



<u>Project</u> Workorder	1ST QTR 2022 3060 RIVER F 3227039	RD					
Client Sa Lab Sam	ample ID 3060RIVE pple ID 32270390	RRD 001				Collected Lab Receipt	02/11/2022 12:56 PM 02/11/2022 4:38 PM
Wet Cher EPA 420.	mistry (General) .4						
	Prep Method 420.4/9066 Batch 820325 Date 02/18/2022 8:47 AM	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-H(Sulfuric Acid) 100 mL AKH		Analysis	<u>Fraction</u> <u>Dilution</u> PM <u>Analyst</u>	1 АКН
RESULTS							
Compound Phenolics		CAS No PHENOL	<u>Result</u> ND	<u>Units</u> mg/L	<u>RDL</u> 0.005		Qualifiers C,ND
Wet Cher SW846 9	mistry (General) 020B						
	Prep <u>Method</u> N/A <u>Batch</u> N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-I(Sulfuric Acid) 50 mL N/A		Analysis	<u>Fraction</u> <u>Dilution</u> з РМ <u>Analyst</u>	1 PAG
RESULTS							
<u>Compound</u> Halogen, Tota	al Organic (TOX)	<u>CAS No</u> TOX	<u>Result</u> ND	<u>Units</u> ug/L	<u>RDL</u> 20.0		<u>Qualifiers</u> C,ND
Wet Cher ASTM D6	mistry (General) 9919-09						
	Prep <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-C(Sulfuric Acid) 5 mL N/A		Analysis Method ASTM D6919-09 Batch 820645 Date 02/24/2022 3:4	р <u>Fraction</u> <u>Dilution</u> 6 АМ <u>Analyst</u>	10 ALK
RESULTS							
Compound Ammonia-N		CAS No NH3N	<u>Result</u> 0.253	<u>Units</u> mg/L	<u>RDL</u> 0.100		<u>Qualifiers</u> c
Wet Cher SM2130E	mistry (General) 3-2011						
	Prep Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-A(Unpreserved) 25 mL N/A		Analysis	<u>Fraction</u> <u>Dilution</u> 6 АМ <u>Analyst</u>	1 LXZ

Workorder	3227039									0		(ALS)
Client Sai	mple ID ple ID		3060RIVERRI 3227039001	D						Collected Lab Receipt	02/11/20 02/11/2	22 12:56 PM 2022 4:38 PM
RESULTS												
Compound			(CAS No		Result	Units		RDL			Qualifiers
Turbidity			1	Turb		0.17	NTU		0.10			C
Wet Chen SM2320B	nistry (G 8-2011	ener	al)									
C	P	Prep					$\overline{}$	Ai	nalysis —			
[Method	N/A		<u>Container</u>	3227039001-A(Unp	reserved)		<u>Method</u>	SM2320B-2011	Fraction		
	Batch	N/A		Aliquot	50 mL			Batch	819333	Dilution	1	
C	Date	N/A		Tech.	N/A			Date	02/14/2022 11:52 Pi	M <u>Analyst</u>	MLW	
RESULTS												
Compound			<u>(</u>	CAS No		<u>Result</u>	<u>Units</u>		RDL			Qualifiers
Alkalinity, Bica	arbonate		ł	HCO3		ND	mg/L		5			C,ND
Wet Chen SM2320B	nistry (G 3-2011 <u>Method</u> <u>Batch</u> <u>Date</u>	ener ^P rep N/A N/A N/A	al) 	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-A(Unp 50 mL N/A	reserved)		An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM2320B-2011 819333 02/14/2022 11:52 PI	<u>Fraction</u> <u>Dilution</u> м <u>Analyst</u>	1 MLW	
<i>RESULTS</i> <u>Compound</u> Alkalinity. Tota	al		<u>(</u>	<u>CAS No</u> Alkt		<u>Result</u>	<u>Units</u> mg/L		RDL 5			Qualifiers C.ND.1
andan'nty, rott							5					0,,
Wet Chen SM2510B	nistry (G -2011	ener	al)									
	Method Batch Date	Prep N/A N/A N/A		<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227039001-A(Unp 50 mL N/A	reserved)		An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM2510B-2011 820538 02/18/2022 3:49 Pł	Fraction Dilution M <u>Analyst</u>	1 BXD	
RESULTS												
<u>Compound</u>			(CAS No		<u>Result</u>	<u>Units</u>		<u>RDL</u>			<u>Qualifiers</u>
Specific Cond	luctance		(Cond		231	umhos/	cm	1			C
Wet Chen S2540C-1	nistry (Ge I1	ener	al)									



Client Sample ID	3060RIVERRD			Collected	02/11/2022 12:56 PM
	3227033001			Lab Receipt	02/11/2022 4.30 FW
Preu Method N/, Batch N/, Date N/,	A <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227039001-A(Unpreserved) N/A	Analysis <u>Method</u> \$2540C-11 <u>Batch</u> 820021 <u>Date</u> 02/16/2022 9:30 AN	Fraction Dilution Analyst	1 SMS
RESULTS					
Compound	CAS No	Result Units	RDL		Qualifiers
Total Dissolved Solids	TDS	198 mg/L	25		C
Wet Chemistry (Gen S4500HB-11	eral)				
Preu <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	A <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227039001-A(Unpreserved) 50 mL N/A	Analysis <u>Method</u> S4500HB-11 <u>Batch</u> 819333 <u>Date</u> 02/14/2022 11:52 Pt	Fraction Dilution Analyst	1 MLW
RESULTS					
<u>Compound</u>	CAS No	Result Units	RDL		Qualifiers
pH	РН	6.11 pH_Uni	IS		C,3
Wet Chemistry (Gen SM5310B-2011	eral)				
Prej <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	p <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227039001-F(Hydrochloric Acid) 6 mL N/A	Analysis <u>Method</u> SM5310B-2011 <u>Batch</u> 820047 <u>Date</u> 02/15/2022 3:57 PM	Fraction Dilution Analyst	1 PAG
RESULTS					
Compound	CAS No	Result Units	RDL		Qualifiers
Total Organic Carbon (TOC)	TOC	ND mg/L	0.50		C,ND
FLD Field					
Preu <u>Method</u> N// <u>Batch</u> N// <u>Date</u> N//	p <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227039001-N(Unpreserved) N/A	Analysis Method Field Batch 820603 Date 02/11/2022 12:56 PM	Fraction Dilution A <u>Analyst</u>	1 BGS
RESULTS					
<u>Compound</u>	CAS No	Result Units	<u>RDL</u>		Qualifiers
pH, Field (SM4500B)	PHF	6.16 pH_Uni	cm 1		C
Specific Conductance, FIeld	CONDI	207 ullin08/			L

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<u>Project</u> Workorder	1ST QTR 202 3227039	2 3060 RIVER RD				
Client Sa Lab Sam	mple ID ple ID	3060RIVERRD 3227039001			Collected Lab Receipt	02/11/2022 12:56 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	Result	Units RDL		Qualifiers
Temperature		Temp	14.20	Deg. C		C



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227039001	3060RIVERRD	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

	Q			E G		F CU	STOD	¥	Ō	enerated by A	S	000	3227039	-
ACC (ALS) Environmental 34 Borrood Jave Hatelikhonn of 1775 - Donor 377,200,2554 - Exercisional Accession of 1772, 2000, 2012, 2012, 2012		<		KEC		FOR	INAL	(SIS			_		Logged By: KSB	of
2 301 Fulling Mill Road + Middletown, PA 17057 + 717,944,5541 + Fai	ax: 717.944.1430	ζ			R INST	ו פב ער מורדוס		LE DAG	HE CLIE	- N I /		ALS		-
Client Name: Lancaster County Solid Waste MA	පී ·	ontainer Tvpe	AG	AN	AN	CG C		PL_	PL	굽	님	Ы		(de l
ddress: 1299 Harrisburg Pike, P.O. Box 4424	ප	ntainer Size	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml	125 ml	500 ml	500 ml		(an)
D Lancaster, PA 17604	Pres	servative	P	H2SO4	H2SO4	Asc&HCI		H2SO4	HN03	HNO3	None	None		laiti
Contact: Dan Brown						YSES/M	THOD R	FOUFST	Ē		2101	2		IIIIai
Phone#: (717) 735-0193									3					
Project Name/#: LCSWMA - Quarterly									'uM		, F,		Temp Taken By: Amar	Ţ
Bill To: Lancaster County Solid Waste MA									'6M	вV ,	' † 0		Therm ID: 574	
TAT X Normal-Standard TAT is 10-12 business	is days.								, Fе,	, 'u	s 'io		Receipt Info Completed By: P OF - Cooler Custody Seal Intact Y N	Ţ
Rush-Subject to ALS approval and surc	charges.								вD :	V ,6M	'60		Sample Custody Seal Intact	Ι
Date Required: Approved By:								d	eletel	∕, A∃	N 'ZC	800	Cooler & Samples Intact	
Ear? No:						s'00		100 '	M bə	,60	C N 'S	р н ' 4	Sample Label/COC Agree Y N	
	о 	xi	Э	НС	x	<u>ک</u>		N-8	el VIOS	:sle	Dq2	iuili	Adequate Sample Volumes	
Sample Description/Location Sample (as it will appear on the lab report) Date	Time *G or	nteM** I	01)-0	er Numbe	524 524 Conta	LE Mer S		Field Res	ilfs Belo	,Hq	8 VIK9	Di Voa Trip Blank - Van Iright - NIS 4 Days?	
1 3060RIVERRD 02/11/22	1256 G	A	~		2	× «			-			+	Rad Screen (uCi) Courier/Tracking#:	
2. Trip Blank 02/11/22	0 10000	No.			1				-	-	-	_	- SDWA Compliance	
		5		T	1	4							- PWSID	
4													I	
0														
9														
8														
0													ALS Field Services: Dickup DLabo	bor
													JComposite_Sampling	ment
Project Comments:	LOGGED BY (signa	iture):					:9TAQ		-SALL		S	Standan	d Special Processing State Sam	nples
	REVIEWED BY(sig	nature):					: ETAQ		-3811		ita rable	CLP-like	DISACE Collected	ed In
Relinquished By / Company Name	Date Ti	ů		Receive	d By / Co	mpany N	ame		Date	Time	s G Svila	DUSACE	Navy Navy Navy	
I NUS ONIDOUC PLS	2-14-3-16	2 D	AN	R F	ALS				2-11-2	19:3X	i na			
~ I		4									Report	able to PAD	DEP? Sample Disposal X PA	
5		9									Yes			
12		<u>∞</u>									# OISMc		Special	
		-	0								EDDS:	ormat Type-		
2-01400 C01400	ALS ENVIRO	- AI=AIC	DW=Drin	PPING A	GW=Gro	undwater; 34 DO		-Other Li	quid; SL=	Sludge; S OWN, F	<u>0=Soil; W</u> A 17057	^o =Wipe; WV	V=Wastewater Rev 8	8/04





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	NELA State Certifi	P Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3076 RIVER RD</u> <u>3227034</u> 152373 on 2/28/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collector Company 3227034001 3076 River Road, Conestoga, PA Water 02/11/2022 1:03 PM Date Received Collector Collector Company



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

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- 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
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- 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



Project Notations

		Sample Notations
Lab ID	Sample ID	
3227034001	3076 River Road, Conestoga, PA	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227034002	Trip Blank	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Result Notations
Notation #		
1	The Total Alkalinity is titrated to a	pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MB for meth reported at 0.83mg/L and the con	nod EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was trol limit is less than 0.44mg/L.

3 The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



 Client Sample ID
 3076 River Road, Conestoga, PA
 Collected
 02/11/2022 1:03 PM

 Lab Sample ID
 3227034001
 Lab Receipt
 02/11/2022 4:38 PM

 Volatiles - GC/MS
 EPA 524.2
 EPA 524.2
 EPA 524.2

Analysis Prep Container 3227034001-K(Ascorbic + HCl) Method N/A Method EPA 524.2 Fraction VOA_Trace 5 mL **Dilution** Batch <u>Aliquot</u> Batch 820860 1 N/A Date N/A Tech. N/A Date 02/19/2022 5:15 AM Analyst PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C.ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C.ND
Benzene	71-43-2	ND ug/L	0.50	C.ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C.ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C.ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C.ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C.ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	95.50%	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			$\sim c$	- Ar	alysis —		
	Method	EPA ACID	<u>Container</u>	3227034001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	Date	02/15/2022 1:00 PM	Tech.	SRT	\mathcal{H}	Date	02/17/2022 11:14 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Dissolved	7440-70-2_D	13.9 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	8.7 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.18 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	3.5 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	25.6 mg/L	0.50	С

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Client Sample ID	3076 River Road, Conestoga, PA	Collected	02/11/2022 1:03 PM
Lab Sample ID	3227034001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ——			 Ar	alysis ——			
Method	EPATRMD	Container	3227034001-D1(Nitric Acid)	Method	EPA 200.7	Fraction		
Batch	819233	Aliquot	50 mL	Batch	819300	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI	Date	02/15/2022 12:19 PM	<u>Analyst</u>	SRT	

RESULTS

CAS No	Result Units	<u>RDL</u>	Qualifiers
7440-70-2	12.4 mg/L	0.050	С
7439-89-6	ND mg/L	0.030	C,ND
7439-95-4	7.9 mg/L	0.050	C
7439-96-5	0.15 mg/L	0.0025	C
7440-09-7	3.2 mg/L	0.25	C
7440-23-5	22.5 mg/L	0.25	С
	CAS No 7440-70-2 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7440-23-5	CAS No Result Units 7440-70-2 12.4 mg/L 7439-89-6 ND mg/L 7439-95-4 7.9 mg/L 7439-96-5 0.15 mg/L 7440-09-7 3.2 mg/L 7440-23-5 22.5 mg/L	CAS No Result Units RDL 7440-70-2 12.4 mg/L 0.050 7439-89-6 ND mg/L 0.030 7439-95-4 7.9 mg/L 0.050 7439-96-5 0.15 mg/L 0.0025 7440-09-7 3.2 mg/L 0.25 7440-23-5 22.5 mg/L 0.25

Wet Chemistry (General) EPA 300.0

 	Prep			\wedge	- Ar	alysis ——			
Method	N/A	<u>Container</u>	3227034001-A(Unpreserved)		Method	EPA 300.0	Fraction		
<u>Batch</u>	N/A	Aliquot	5 mL		Batch	819377	Dilution	2	
<u>Date</u>	N/A	Tech.	N/A	ノし	<u>Date</u>	02/12/2022 4:02 PM	<u>Analyst</u>	M1D	J

RESULTS

<u>Compound</u>	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	48.8 mg/L	2.0	C.2
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	9.3 mg/L	1.0	C
Nitrite-N	NO2	ND mg/L	1.0	C.ND
Sulfate	SO4	11.3 mg/L	2.0	C

Wet Chemistry (General) EPA 410.4

F	Prep			(- Ar	nalysis ——			
Method	N/A	Container	3227034001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction		
Batch	N/A	Aliquot	2 mL		Batch	820330	Dilution	1	
Date	N/A	Tech.	N/A	八	<u>Date</u>	02/17/2022 1:45 PM	<u>Analyst</u>	ALK	

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C.ND



<u>Project</u> Workorder	1ST QTR 20 3227034	022-3076 RIVER RD)								ALS
Client Sa Lab Sam	ample ID pple ID	3076 River 322703400	Road, Cones 1	stoga, PA					Collected Lab Receipt	02/1 02/1	1/2022 1:03 PM 1/2022 4:38 PM
Wet Chei EPA 420.	mistry (Ge .4	neral)									
	Method 4 Batch 8 Date 0	ep 420.4/9066 320317 12/18/2022 8:46 AM	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-H(Sulf 100 mL AKH	furic Acid)		Ar <u>Method</u> <u>Batch</u> <u>Date</u>	EPA 420.4 820736 02/18/2022 12:46 PM	Fraction Dilution Analyst	1 АКН	
RESULTS											
Compound Phenolics			CAS No PHENOL		<u>Result</u> ND	<u>Units</u> mg/L		<u>RDL</u> 0.005			Qualifiers C,ND
Wet Chei SW846 9	mistry (Ge 020B	neral)									
	Method M Batch M Date M	ep	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-1(Sulfu 50 mL N/A	uric Acid)		Ar <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SW846 9020B 820253 02/16/2022 11:45 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 PAG	
RESULTS											
<u>Compound</u> Halogen, Tot	al Organic (TO	X)	CAS No TOX		<u>Result</u> ND	<u>Units</u> ug/L		<u>RDL</u> 20.0			<u>Qualifiers</u> C,ND
Wet Chei ASTM D6	mistry (Ge 6919-09	neral)									
	Method M Batch M Date M	ep	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-C(Sulf 5 mL N/A	uric Acid)		Ar <u>Method</u> <u>Batch</u> <u>Date</u>	ASTM D6919-09 820647 02/24/2022 11:42 AM	<u>Fraction</u> Dilution A <u>Analyst</u>	10 ALK	
RESULTS											
<u>Compound</u> Ammonia-N			CAS No NH3N		<u>Result</u> 0.236	<u>Units</u> mg/L		<u>RDL</u> 0.100			<u>Qualifiers</u> c
Wet Chei SM2130E	mistry (Ge 3-2011	neral)									
	Method M Batch M Date M	ep	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-A(Unp 25 mL N/A	reserved)		Ar <u>Method</u> <u>Batch</u> <u>Date</u>	SM2130B-2011 819225 02/12/2022 8:06 AM	<u>Fraction</u> Dilution Analyst	1 LXZ	

<u>Project</u> Workorder	1ST QTR 2022- 3227034	3076 RIVER RD				ALS
Client Sa Lab Sam	imple ID iple ID	3076 River Road, Cones 3227034001	stoga, PA		Collected Lab Receipt	02/11/2022 1:03 PM 02/11/2022 4:38 PM
RESULTS						
Compound Turbidity		<u>CAS No</u> Turb	Result Units 0.12 NTU	<u>RDL</u> 0.10		<u>Qualifiers</u> c
Wet Cher SM2320E	nistry (Gene 3-2011	ral)				
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-A(Unpreserved) 50 mL N/A	Analysis Method SM2320B-2011 Batch 819333 Date 02/14/2022 11:17 PM	<u>Fraction</u> Dilution <u>Analyst</u>	1 MLW
RESULTS						
<u>Compound</u> Alkalinity, Bic	carbonate	<u>CAS No</u> HCO3	<u>Result</u> <u>Units</u> 6 mg/L	<u>RDL</u> 5		<u>Qualifiers</u> c
Wet Cher SM2320E	mistry (Gene 3-2011 Prep <u>Method</u> N/A Ratch N/A	ral) <u>Container</u>	3227034001-A(Unpreserved)	Analysis Method SM2320B-2011 Rateb 810323	<u>Fraction</u>	
Ĺ	Date N/A	<u>Tech.</u>	N/A	<u>Date</u> 02/14/2022 11:17 PM	Analyst	MLW
RESULTS						
<u>Compound</u> Alkalinity, Tot	al	<u>CAS No</u> ALKT	<u>Result</u> <u>Units</u> 6 mg/L	<u>RDL</u> 5		Qualifiers C.1
Wet Cher SM2510E	nistry (Gene 3-2011	ral)				
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227034001-A(Unpreserved) 50 mL N/A	Analysis Method SM2510B-2011 Batch 820538 Date 02/18/2022 3:49 PM	Fraction Dilution Analyst	1 BXD
RESULTS						
Compound Specific Cond	ductance	CAS No Cond	Result Units 303 umhos	<u>RDL</u> /cm 1		<u>Qualifiers</u> c
Wet Cher S2540C-	mistry (Gene 11	ral)				



Client Sample ID Lab Sample ID	3076 River Road, Cones 3227034001	stoga, PA		Collected Lab Receipt	02/11/2022 1:03 PM 02/11/2022 4:38 PM
- Pre	n ———		Analysis —		
Method N/ Batch N/	A <u>Container</u> A <u>Aliquot</u>	3227034001-A(Unpreserved)	Method S2540C-11 Batch 820021 Data 824071	Fraction Dilution	1
	A <u>lech.</u>	N/A	<u>Date</u> 02/16/2022 9:30 AM	<u>Analysi</u>	SMS
RESULTS					
Compound	CAS No	Result Units	RDL		Qualifiers
Total Dissolved Solids	TDS	218 mg/L	25		C
Wet Chemistry (Gen S4500HB-11	eral)		- Analysis		
Method N/	A Container	222702 (001 A(Upprocorred)	Method S4500HP 11	Fraction	
Batch N/	A <u>Container</u> A Aliquot	50 mL	Batch 819333	Dilution	1
Date N/	A <u>Tech.</u>	N/A	Date 02/14/2022 11:17 PM	Analyst	мlw
RESULTS					
<u>Compound</u>	CAS No	Result Units	<u>RDL</u>		Qualifiers
pH	PH	6.62 pH_Ur	lits		C,3
SM5310B-2011 Method N/ Batch N/	p <u>Container</u> A <u>Aliquot</u>	3227034001-F(Hydrochloric Acid) 6 mL	Analysis Method SM5310B-2011 Batch 820047	Fraction Dilution	1
RESULTS		N/A Deput Unite	<u>Date</u> 02/15/2022 3:57 PM	<u>Anaiysi</u>	PAG
Total Organic Carbon (TOC)	TOC	ND mg/L	<u>RDL</u> 0.50		<u>Quaimers</u> C,ND
FLD Field <u>Method</u> N/ <u>Batch</u> N/ <u>Date</u> N/	p <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227034001-N(Unpreserved) N/A	Analysis Method Field Batch 820603 Date 02/11/2022 1:03 PM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 BGS
RESULTS					
Compound	CAS No	Result Units	RDL		Qualifiers
pH, Field (SM4500B)	PHF	6.70 pH_Ur	lits		C
Specific Conductance, Field	CONDF	229 umhos	/cm 1		C

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<u>Project</u> Workorder	1ST QTR 202 3227034	2-3076 RIVER RD				ALS
Client Sar Lab Sam	mple ID ple ID	3076 River Road, Conestoga, PA 3227034001			Collected Lab Receipt	02/11/2022 1:03 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	<u>Result</u> <u>Units</u>	<u>RDL</u>		Qualifiers
Temperature		Тетр	14.20 Deg. C			C



		Sample - Method C	ross Reference Table		
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227034001	3076 River Road, Conestoga, PA	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

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	•			REQU	EST F	OR A	NALY	SIS					33	Logged By: K	. م م
34 togreeof take • Mindletowit, 54 1793 • Phone: 717 944 5541 • Fax 717 944 1439 • www.aligibas.com 301 Fulling Mill Road • Middletowit, PA 17057 • 717, 944 5541 • Fai	ax: 717.944.1430	ALI	- SNAU S	EU AREA AMPLER	INSTR		NPLEIE IS ON TH	U BY IN HE BACK	E CLE			ALS (- 	-
Client Name: LCSWMA - Brian Sensenich	Con	itainer ype	AG	AN	AN	8		PL	Ы	占	ਟ	ΡL			(ng Lab
Address: 3076 Rover Road	Con	itainer Size	40 ml	125 ml	250 ml	40 ml		250 ml	125 ml	125 ml	500 ml	500 ml	Cooler Temp:	/] Therm ID:	Sty
Conestoga, PA 17516	Prese	ervative	HCI	-12SO4 -1-	12SO4 A	sc&HCI		ł2S04	HN03	HN03	None	None	o, of Conlere	> 	N Initial
Contact: Brian Sensenich					ANAL	YSES/ME	THOD RE	QUESTE		-					
Phone#: (717) 676-5779									'u				TempT	aken By:	201
Project Name/#: LCSWMA - Quarterly									IW 'E	e	'∃'t		WOTer		
Bill To: LCSWMA - Brian Sensenich									SM .4	K' N	, OS		CC Inerm Receipt	t Info Completed By:	3. Z
TAT X Normal-Standard TAT is 10-12 busines	s days.							-	9-1 ,6	,nM	' CI'		Cooler	Custody Seal Intact Oustody Seal Intact	
Rush-Subject to ALS approval and surv	charges.							-	ງ :s	'6M	EON	{	Receive	ed on Ice)₹ (
Date Required: Approved By:								D	leisi	,9٦	05'1	603	Cooler	& Samples Intact t Containers Provided	N Z 2 2
Email:						s'00		00 '1	V D9V	,eD ::	O N 'SC	H ,Vtii	Sample Adequa	e Label/COC Agree ate Sample Volumes	N N N
Sample Description/Location Sample) or C	Aatrix	201	но-о	XOT	524 N	FM	N-EHN	R, Na	etaM	Tb, Sp Tb, Sp	Alkalir	VOAH6 VoaTri Nic 4 D	eadspace Present ip Blank	
(as it will appear on the lab report) Date	Time *C	V**		Ente	r Number	of Contair	ners Per S	ample or F	ield Resu	Its Below			Rad Scr	reen (uCi)	2
1 3076RIVERRD 02/11/22	1303 G	DW	2	t-	2	× v		-	-	-	-		Courier	r/Tracking#:	
2. Trip Blank 02/11/22	638 G	MD				~							SDWA PWSID	Compliance	Q́ Į
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10													□Composite_ □Other:	Sampling CRent	al_Equipment
Project Comments:	LOGGED BY (signa	iture):					:9TAQ		:3MIT		S	Stands	ird Spe	scial Processing	State Samples
	REVIEWED BY (sigi	nature):					:3TAQ		:3WIT		rta rable rable		(e	USACE	Collected In
Relipeduished By / Company Name	Date Ti	me		Receive(1 By / Co	mpany N	ame		Date	Time	sC 9vila	Dusaci		Navy	≽ ∏
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3		4									Report	ible to PA	DEP? Si	ample Disposal	X PA
5											Yes			Lab X	2 N
L 12		œ									# CISM			Special	
6		9									EDDS:	ormat Type			
* G=Grab; C=Compos	site **Matrix -	- Al=Air; I	DW=Drink	king Water;	GW=Gro	undwater;	OI=OII; OL	=Other Li	quid; SL={	Sludge; S(D=Soil; W	⊃=Wipe; V	/W=Wastewater		
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	NELA State Certific	P Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For L	Ancaster Project Workorder Report ID	County Solid Waste Authority 1st QTR 2022 3079 RIVER RD 3227036 152374 on 2/28/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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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Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collection Company 3227036001 3079RIVERRD Water 02/11/2022 2:15 PM 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227036001	3079RIVERRD	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227036002	TRIP BLANK	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations
Notation #	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MSLO for method EPA 410.4 was outside the control limits for the analyte Chemical Oxygen Demand (COD). The % Recovery was reported as 88.3 and the control limits were 90 to 110.
3	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.83mg/L and the control limit is less than 0.44mg/L.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



Client Sample ID 3079RIVERRD Collected 02/11/2022 2:15 PM Lab Sample ID 3227036001 Lab Receipt 02/11/2022 4:38 PM Volatiles - GC/MS EPA 524.2

Prep Analysis Container 3227036001-K(Ascorbic + HCl) Method N/A <u>Aliquot</u> 5 mL Batch N/A Date N/A Tech. N/A

				١
Method	EPA 524.2	Fraction	VOA_Trace	
Batch	820860	Dilution	1	
Date	02/19/2022 6:07 AM	<u>Analyst</u>	PDK	J

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C.ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C.ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C.ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	90.50%	70 – 130	

Metals Analytical

EPA 200.7

1	— F	Prep			$\sim c$	- An	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227036001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	<u>Date</u>	02/15/2022 1:00 PM	<u>Tech.</u>	SRT	\mathcal{I}	Date	02/17/2022 11:28 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	10 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C,ND
Magnesium, Dissolved	7439-95-4_D	6.2 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.040 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	1.9 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	13.9 mg/L	0.50	С

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Project	1st QTR 2022 3079 RIVER RD
Workorder	3227036

Client Sample ID	3079RIVERRD	Collected	02/11/2022 2:15 PM
Lab Sample ID	3227036001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep			\neg	Ar	nalysis ———			
Method	EPA TRMD	<u>Container</u>	3227036001-D1(Nitric Acid)) [Method	EPA 200.7	Fraction		
Batch	819233	<u>Aliquot</u>	50 mL		Batch	819300	Dilution	1	
Date	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 12:27 PM	<u>Analyst</u>	SRT	

RESULTS

CAS No	Result Units	<u>RDL</u>	<u>Qualifiers</u>
7440-70-2	8.5 mg/L	0.050	C
7439-89-6	ND mg/L	0.030	C.ND
7439-95-4	5.3 mg/L	0.050	C
7439-96-5	0.031 mg/L	0.0025	C
7440-09-7	1.7 mg/L	0.25	C
7440-23-5	11.8 mg/L	0.25	С
	CAS No 7440-70-2 7439-89-6 7439-95-4 7439-96-5 7440-09-7 7440-23-5	CAS No Result Units 7440-70-2 8.5 mg/L 7439-89-6 ND mg/L 7439-95-4 5.3 mg/L 7439-96-5 0.031 mg/L 7440-09-7 1.7 mg/L 7440-23-5 11.8 mg/L	CAS No Result Units RDL 7440-70-2 8.5 mg/L 0.050 7439-89-6 ND mg/L 0.030 7439-95-4 5.3 mg/L 0.050 7439-96-5 0.031 mg/L 0.0025 7440-09-7 1.7 mg/L 0.25 7440-23-5 11.8 mg/L 0.25

Wet Chemistry (General) EPA 300.0

(Prep			۱ (- An	nalysis ———			
	Method	N/A	Container	3227036001-A(Unpreserved)		Method	EPA 300.0	Fraction		
	Batch	N/A	Aliquot	5 mL		Batch	819377	Dilution	2	
l	<u>Date</u>	N/A	<u>Tech.</u>	N/A	\mathcal{I}	Date	02/12/2022 4:34 PM	<u>Analyst</u>	M1D	J

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	26.4 mg/L	2.0	C,3
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	ND mg/L	1.0	C,ND
Nitrite-N	NO2	ND mg/L	1.0	C,ND
Sulfate	SO4	8.3 mg/L	2.0	C

Wet Chemistry (General) EPA 410.4

	₽	rep			(— An	alysis ———		
	Method	N/A	<u>Container</u>	3227036001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction	
	Batch	N/A	<u>Aliquot</u>	2 mL		Batch	820330	Dilution	1
l	Date	N/A	Tech.	N/A		Date	02/17/2022 1:45 PM	<u>Analyst</u>	ALK

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	<u>Qualifiers</u>
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND,2



<u>Project</u> Workorder	1st QTR 2022 3079 RI 3227036	VER RD					ALS
Client Sa Lab Sam	mple ID 3079 ple ID 322	9RIVERRD 7036001				Collected Lab Receipt	02/11/2022 2:15 PM 02/11/2022 4:38 PM
Wet Chen EPA 420.4	nistry (General) 4						
	Prep <u>Method</u> 420.4/9066 <u>Batch</u> 820317 <u>Date</u> 02/18/2022 8	<u>Container</u> <u>Aliquot</u> :46 AM <u>Tech.</u>	3227036001-H(Sulfuric Acid) 100 mL AKH		Analysis <u>Method</u> EPA 420.4 <u>Batch</u> 820736 <u>Date</u> 02/18/2022 1:06	<u>Fraction</u> <u>Dilution</u> PM <u>Analyst</u>	1 АКН
RESULTS							
Compound Phenolics		CAS No PHENOL	<u>Result</u> ND	<u>Units</u> mg/L	<u>RDL</u> 0.005		Qualifiers C,ND
Wet Chen SW846 90	nistry (General) 020B						
	Prep Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227036001-I(Sulfuric Acid) 50 mL N/A		Analysis <u>Method</u> SW846 9020B <u>Batch</u> 821197 <u>Date</u> 02/21/2022 12:50	<u>Fraction</u> Dilution DPM <u>Analyst</u>	1 PAG
RESULTS							
<u>Compound</u> Halogen, Tota	al Organic (TOX)	<u>CAS No</u> TOX	<u>Result</u> ND	<u>Units</u> ug/L	<u>RDL</u> 20.0		Qualifiers C,ND
Wet Chen ASTM D6	nistry (General) 919-09						
	<u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227036001-C(Sulfuric Acid) 5 mL N/A		Mathysis <u>Method</u> ASTM D6919-09 <u>Batch</u> 820647 Date 02/24/2022 11:56	<u>Fraction</u> Dilution SAM <u>Analyst</u>	10 ALK
<i>RESULTS</i>			Pocult	Unite	וחפ		Qualifiers
Ammonia-N		NH3N	0.175	mg/L	0.100		<u>Quainers</u> C
Wet Chen SM2130B	nistry (General) 3-2011				Analysia		
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227036001-A(Unpreserved) 25 mL N/A		Method SM2130B-2011 Batch 819225 Date 02/12/2022 8:06	<u>Fraction</u> <u>Dilution</u> AM <u>Analyst</u>	1 LXZ

<u>Project</u> Workorder	1st QTR 2022 3 3227036	3079 RIVER RD							ALS
Client Sa Lab Sam	imple ID iple ID	3079RIVERRD 3227036001					Collected Lab Receipt	02/11/20 02/11/20	22 2:15 PM 22 4:38 PM
RESULTS									
Compound		<u>CAS No</u>	<u>Result</u>	<u>Units</u>		<u>RDL</u>			Qualifiers
Turbidity		Turb	0.15	NTU		0.10			C
Wet Cher SM2320B	nistry (Gene 3-2011	eral)							
(Prep				An An	nalysis ——			
	Method N/A	<u>Container</u>	3227036001-A(Unpreserved)		Method	SM2320B-2011	Fraction		
	Batch N/A	<u>Aliquot</u>	50 mL		Batch	819998	Dilution	1	
C	Date N/A	lech.	N/A		Date	02/15/2022 12:00 PM	<u>Analyst</u>	MLW	
RESULTS									
Compound		CAS No	Result	Units		RDI			Qualifiers
Alkalinity. Bic	arbonate	HCO3	35	mg/L		5			C
SM2320E	B-2011 Prep <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u> <u>CAS No</u> ALKT	3227036001-A(Unpreserved) 50 mL N/A <u>Result</u> 34	Units mg/L	An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM2320B-2011 819333 02/14/2022 11:30 PM <u>RDL</u> 5	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 MLW	Qualifiers C,1
Wet Cher SM2510B	nistry (Gene 3-2011 -	ral)							
(Prep				An An	nalysis ——			
	Method N/A	<u>Container</u>	3227036001-A(Unpreserved)		Method	SM2510B-2011	Fraction		
	Batch N/A	<u>Aliquot</u>	50 mL		Batch	820538	<u>Dilution</u>	1	
C	Date N/A	lecn.	N/A			02/18/2022 3:49 PM	Analyst	BXD	
RESULTS									
<u>Compound</u>		CAS No	Result	<u>Units</u>		<u>RDL</u>			<u>Qualifiers</u>
Specific Cond	ductance	Cond	198	umhos/	cm	1			C
Wet Cher S2540C-1	nistry (Gene 11	ral)							

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<u>Project</u> Workorder	1st QTR 202 3227036	2 3079 RIVER RD				ALS
Client Sar Lab Sam	mple ID ple ID	3079RIVERRD 3227036001			Collected Lab Receipt	02/11/2022 2:15 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	Result Units	RDL		Qualifiers
Temperature		Тетр	14.10 Deg. C			C


Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227036001		Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

				ΰ		F CU			Genera	ted by ALS	0	lō	3227036 Logged Bu: KSB	-
Maintain Maintain			VHS I I											of.
301 Fulling Mill Road + Middletown, PA 17057 + 717.944.5541 + Fax	ax: 717.944.1430			SAMPL	ER. INST		NS ON TH	IE BACK.			∢]	۲ ا		
Client Name: Lancaster County Solid Waste MA		Container Type	AG	AN	AN	8	1	Ы	PL	님		<u>ਜ</u>	Receipt Intormation (compreted by neceiving La	Lab)
Address: 1299 Harrisburg Pike, P.O. Box 4424		Container Size	40 ml	125 ml	250 ml	40 ml		50 ml 12	5 ml 12	55 ml 50	00 ml 5	TE 00	cooler Temp: 11 Therm ID: 574	
Lancaster, PA 17604		^D reservative	PC	H2SO4	H2SO4	AscHCI		2S04 H	NO3 H	NO3	one	done No	. of C v w Initia	itial
Contact: Dan Brown					ANA	LYSES/M	ETHOD RE	QUESTED		-				
Phone#: (717) 735-0193								-		-	-		Temp Taken By:	I
Project Name/#: LCSWMA - Quarterly Fire Co.								uM		=			WO Temp (°C)	
Bill To: Lancaster County Solid Waste MA								nM		705 			COC Receipt Info Completed By: CCC	u
TAT X Normal-Standard TAT is 10-12 business	s days.							9 <u>7</u> 6		i U i	- line li		Cooler Custody Seal Intact Y N C	Ø
Rush-Subject to ALS approval and surce Date Beamined.	charges.							O .SE		, 9M ,		5	Received on Ice Cooler & Samples intact]₹
Email? 7-Y								dD teM		97 ,E		сон	Correct Containers Provided Y N Sample Label/COC Agree	Т
Fax? Y No.:		ix	0	HO	X	20V ‡		3-N-E	eV	SOT.	OdS	,vtinile	Adequate Sample Volumes VOA Headspace Present	≸
Sample Description/Location Sample (as it will appear on the lab report) Date	Time	*G of **Mati	21	-0	nter Numbe	52 ir of Conta	LL iners Per S	M Imple or Fi	K	Below.	'qL	3 VIK	Nurii Nis 4 Days? Y N Rad Screen (uCi)	⊈
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	REVIEWED BY	(signature					:ətad		:3MIT	ete	irable.	CLP-IK	BACE Collected	ed In
Religquished By / Company Name	Date	Time		Recei	ved By / C	ompany l	lame		ate T	ime D	evile	JUSACE	Navy UN	
- Magnoord HO	24-12	20	2 7	MRF	JAUS			<u>،</u>	1-12 16	:38	 a		2 	
3			4								Reportat	le to PAI	DEP? Sample Disposal X PA	
5			9								Yes		Lab	
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* 2-6-5-1 *			10	OW Service						ш (DDS: Fo	mat Type		
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	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3088 RIVER RD</u> <u>3227033</u> 152085 on 2/25/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collector Company 3227033001 3088 River Road, Conestoga PA Water 02/11/2022 1:16 PM Date Received Collector Collector Company



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227033001	3088 River Road, Conestoga PA	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227033002	Trip Blank	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations
Notation #	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.85mg/L and the control limit is less than 0.44mg/L.
3	Analyte was analyzed past the 48 hour holding time.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



Client Sample ID
Lab Sample ID3088 River Road, Conestoga PACollected
Lab Receipt02/11/2022 1:16 PMVolatiles - GC/MS227033001Lab Receipt02/11/2022 4:38 PM

₽	Prep			(- An	nalysis ———		
Method	N/A	<u>Container</u>	3227033001-K(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
Batch	N/A	<u>Aliquot</u>	5 mL		Batch	820860	Dilution	1
Date	N/A	Tech.	N/A	八	<u>Date</u>	02/19/2022 4:48 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C.ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C.ND
Benzene	71-43-2	ND ug/L	0.50	C.ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C.ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C.ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C.ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C.ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	94.60 %	70 – 130	

Metals Analytical

EPA 200.7

	Prep ———				Ar	nalysis ———		
Metho	d EPA ACID	Container	3227033001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
Date	02/15/2022 1:00 PM	Tech.	SRT	Л	Date	02/17/2022 11:11 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	0.18 mg/L	0.10	C
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	ND mg/L	0.10	C.ND
Manganese, Dissolved	7439-96-5_D	ND mg/L	0.0050	C,ND
Potassium, Dissolved	7440-09-7_D	0.77 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	234 mg/L	0.50	С

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Client Sample ID	3088 River Road, Conestoga PA	Collected	02/11/2022 1:16 PM
Lab Sample ID	3227033001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ———			\neg	Ar	alysis ———			
Method	EPA TRMD	Container	3227033001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	<u>Aliquot</u>	50 mL		Batch	819300	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 12:04 PM	<u>Analyst</u>	SRT	

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	0.16 mg/L	0.050	С
Iron, Total	7439-89-6	ND mg/L	0.030	C,ND
Magnesium, Total	7439-95-4	ND mg/L	0.050	C,ND
Manganese, Total	7439-96-5	0.0033 mg/L	0.0025	C
Potassium, Total	7440-09-7	0.86 mg/L	0.25	C
Sodium, Total	7440-23-5	206 mg/L	0.25	C

Wet Chemistry (General) EPA 300.0

	Prep			۲ (Ar Ar	nalysis ———			
Method	<u>d</u> N/A	<u>Container</u>	3227033001-A(Unpreserved)		Method	EPA 300.0	Fraction		
Batch	N/A	Aliquot	5 mL		Batch	819999	Dilution	2	
Date	N/A	<u>Tech.</u>	N/A	ノし	<u>Date</u>	02/16/2022 12:07 AM	<u>Analyst</u>	M1D	

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	6.0 mg/L	1.0	C.3
Nitrite-N	NO2	ND mg/L	1.0	C.ND.3
Sulfate	SO4	ND mg/L	2.0	C,ND

Prep		Analysis ———	
Method N/A	Container 3227033001-A(Unpreserved)	Method EPA 300.0	Fraction
Batch N/A	Aliquot 5 mL	Batch 820856	Dilution 10
Date N/A	Tech. N/A	Date 02/18/2022 8:07 PM	<u>Analyst</u> мір

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	211 mg/L	10.0	C,2

Wet Chemistry (General) EPA 410.4



Client Sample ID Lab Sample ID	3088 River 32270330	Road, Cones	stoga PA				Collected Lab Receipt	02/² 02/²	1/2022 1:16 PM 1/2022 4:38 PM
_	Prep			_	Ar	alvsis ——			
	- r	O a seta in a s					F ace effects		
<u>Method</u>	<u>1</u> N/A	Aliquet	3227033001-C(Sulfuric Acid)		<u>Ivietnod</u> Rotob	EPA 410.4	<u>Fraction</u>	1	
Date	N/A N/A	Tech			Date	820242 02/17/2022 11·10 AM	<u>Dilution</u> Analyst	VI K	
	NA	<u>10011.</u>	17/A			02/17/2022 11:10 AM	Analyst	ALK	
RESULTS									
Compound			Posult	Linite		וחם			Qualifiers
Chemical Oxygen Dem	and (COD)	COD	NE) mg/L		15			C,ND
Wet Chemistry (EPA 420.4	General)								
	Prep ——				Ar Ar	alysis ——			
Method	420.4/9066	<u>Container</u>	3227033001-H(Sulfuric Acid)		Method	EPA 420.4	Fraction		
Batch	820317	<u>Aliquot</u>	100 mL		Batch	820736	Dilution	1	
Date	02/18/2022 8:46 AM	Tech.	АКН		<u>Date</u>	02/18/2022 12:43 PM	<u>Analyst</u>	AKH	
RESULTS									
Compound		CAS No	Result	Units		RDL			Qualifiers
Phenolics		PHENOL	NE) mg/L		0.005			C,ND
Method Batch	Prep	<u>Container</u> <u>Aliquot</u> Tech	3227033001-I(Sulfuric Acid) 50 mL N/A		Ar <u>Method</u> <u>Batch</u> Date	nalysis SW846 9020B 820253 02/16/2022 3:48 PM	<u>Fraction</u> <u>Dilution</u> Analyst	1	
	N/A	<u>1601.</u>	N/A			U2/10/2022 3.46 PM	Analyst	PAG	
RESULTS									
Compound		CAS No	Result	<u>Units</u>		<u>RDL</u>			<u>Qualifiers</u>
Halogen, Total Organic	(TOX)	ТОХ	NE) ug/L		20.0			C,ND
Wet Chemistry (ASTM D6919-09	General)								
	Fieh			$\overline{}$	Ar	iaiyələ ———			
Method	<u>1</u> N/A	<u>Container</u>	3227033001-C(Sulfuric Acid)		Method	ASTM D6919-09	Fraction		
Batch	N/A	Aliquot	5 mL		Batch	820648	Dilution	10	
<u>Date</u>	N/A	Tech.	N/A		Date	02/25/2022 7:04 AM	<u>Analyst</u>	ALK	
RESULTS									
<u>Compound</u>		CAS No	<u>Res</u> ult	<u>Units</u>		<u>RDL</u>			<u>Qualifier</u> s
Ammonia-N		NH3N	0.423	3 mg/L		0.100			C

ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com 2/25/2022 10:43 PM

Norkorder 3227033						ALS
Client Sample ID Lab Sample ID	3088 River Road, Cone 3227033001	stoga PA			Collected Lab Receipt	02/11/2022 1:16 P 02/11/2022 4:38 P
Net Chemistry (Ge	neral)					
SIWIZ 1300-2011			_			
Pr Pr	ер ———			nalysis ——		
Method N	I/A <u>Container</u>	3227033001-A(Unpreserved)	Method	SM2130B-2011	Fraction	
Batch N	I/A <u>Aliquot</u>	25 mL	Batch	819225	Dilution	1
<u>Date</u>	I/A <u>Tech.</u>	N/A) <u>Date</u>	02/12/2022 8:06 AM	<u>Analyst</u>	LXZ
RESULTS						
Compound	CASNo	Result Linit	te	וחפ		Qualif
	Turb	0 16 NTL	<u>15</u> J	0.10		Quan
urbidity	Tub	0.10 1410	,	0.10		
Vet Chemistry (Ge 3M2320B-2011	neral)					
Pr	ер			nalysis ——		
Method N	I/A Container	3227033001-A(Unpreserved)) (Method	SM2320B-2011	Fraction	
Batch	I/A Aliquot	50 ml	Batch	819333	Dilution	1
Date N	I/A Tech	N/A	Date	02/14/2022 11·04 PM	Analyst	MIW
RESULTS Compound	<u>CAS No</u> HCO3	<u>Result</u> <u>Unit</u> 148 mg/l	<u>ts</u> L	RDL 5		Qualif
RESULTS Compound Nkalinity, Bicarbonate	<u>CAS No</u> HCO3	<u>Result</u> <u>Unit</u> 148 mg/l	<u>ts</u> L	RDL 5		Qualif
RESULTS Compound Nkalinity, Bicarbonate Vet Chemistry (Ge SM2320B-2011	<u>CAS No</u> HCO3 neral)	<u>Result</u> <u>Unit</u> 148 mg/l	ts L	RDL 5		Qualif
RESULTS Compound Ikalinity, Bicarbonate Vet Chemistry (Ge SM2320B-2011 Pr	CAS No HCO3 neral)	<u>Result</u> <u>Unit</u> 148 mg/l		RDL 5		Qualif
RESULTS Compound Mkalinity, Bicarbonate Wet Chemistry (Ge SM2320B-2011 Pr Method	CAS No HCO3 neral) ep	<u>Result</u> <u>Unit</u> 148 mg/l 3227033001-A(Unpreserved)	ts L Method	RDL 5	Fraction	Qualif
RESULTS Compound Ikalinity, Bicarbonate Vet Chemistry (Ge SM2320B-2011 Pr <u>Method M Batch M</u>	CAS No HCO3 neral) ep <u>Container</u> I/A <u>Container</u>	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL	L L Method Batch	RDL 5	<u>Fraction</u> Dilution	Qualif
RESULTS Compound Jkalinity, Bicarbonate Vet Chemistry (Ge SM2320B-2011 Pr Method Batch Date	CAS No HCO3 neral) ep <u>Container</u> I/A <u>Container</u> I/A <u>Aliquot</u> I/A <u>Tech.</u>	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A	L L Method Batch Date	RDL 5 nalysis SM2320B-2011 819333 02/14/2022 11:04 PM	Fraction Dilution Analyst	Qualif 1 MLW
RESULTS Compound Alkalinity, Bicarbonate Net Chemistry (Ge SM2320B-2011 Pr <u>Method</u> Batch Date	CAS No HCO3 neral) ep I/A Container I/A Aliquot I/A Tech.	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A	L An <u>Method</u> <u>Batch</u> <u>Date</u>	RDL 5 malysis SM2320B-2011 819333 02/14/2022 11:04 PM	Fraction Dilution Analyst	Qualif 1 MLW
RESULTS Compound Natalinity, Bicarbonate Net Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS	CAS No HCO3	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A	ts L Method Batch Date	RDL 5 malysis SM2320B-2011 819333 02/14/2022 11:04 PM	Fraction Dilution Analyst	Qualif 1 MLW
RESULTS Compound Ukalinity, Bicarbonate Net Chemistry (Ge SM2320B-2011 Pr Method M Batch M Date M RESULTS Compound	CAS No HCO3 neral) //A Container //A Aliquot 1/A Tech.	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A <u>Result Unit</u> 148 mg/l	ts Method Batch Date	RDL 5 malysis SM2320B-2011 819333 02/14/2022 11:04 PM	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Valalinity, Bicarbonate Wet Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS Compound Valainity, Total	CAS No HCO3 neral) //A Container //A Aliquot 1/A Tech. CAS No ALKT	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A <u>Result Unit</u> 148 mg/l	ts L Method Batch Date	RDL 5 nalysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Natalinity, Bicarbonate Net Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS Compound Natalinity, Total Wet Chemistry (Ge SM2510B-2011	CAS No HCO3	Result Unit 148 mg/ 3227033001-A(Unpreserved) 50 mL N/A <u>Result Unit</u> 148 mg/	ts L Method Batch Date	RDL 5 malysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Akalinity, Bicarbonate Vet Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS Compound Akalinity, Total Net Chemistry (Ge SM2510B-2011 Pr	CAS No HCO3	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A <u>Result Unit</u> 148 mg/l	ts L Method Batch Date	RDL 5 nalysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5 nalysis	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Alkalinity, Bicarbonate Wet Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS Compound Alkalinity, Total Wet Chemistry (Ge SM2510B-2011 Pr Method Net Chemistry (Ge	CAS No HCO3	Result Unit 148 mg/l 3227033001-A(Unpreserved) - 50 mL N/A N/A Result Unit 148 mg/l 3227033001-A(Unpreserved) - 3227033001-A(Unpreserved) -	ts L Method Batch Date ts L Method	RDL 5 nalysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5 nalysis SM2510B-2011	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Alkalinity, Bicarbonate Wet Chemistry (Ge SM2320B-2011 Pr Method Batch Date RESULTS Compound Alkalinity, Total Wet Chemistry (Ge SM2510B-2011 Pr Method Batch N	CAS No HCO3 neral) p //A Container //A Aliquot //A Tech. CAS No ALKT neral) p //A Container //A Aliquot	Result Unit 148 mg/l 3227033001-A(Unpreserved) 3 50 mL N/A Result Unit 148 mg/l 3227033001-A(Unpreserved) 148 3227033001-A(Unpreserved) 3 3227033001-A(Unpreserved) 50 mL	ts L Method Batch Date	RDL 5 nalysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5 nalysis SM2510B-2011 820538	Fraction Dilution Analyst	Qualif 1 MLW Qualif
RESULTS Compound Alkalinity, Bicarbonate Wet Chemistry (Ge SM2320B-2011 Pr Method Batch Date Wet Chemistry (Ge SM2510B-2011 Vet Chemistry (Ge SM2510B-2011 Pr Method Batch Date N	CAS No HCO3 neral) ep //A Container //A Aliquot //A Tech. CAS No Aliquot //A Container //A Container	Result Unit 148 mg/l 3227033001-A(Unpreserved) 50 mL N/A	ts L Method Batch Date ts L Method Batch Date	RDL 5 malysis SM2320B-2011 819333 02/14/2022 11:04 PM RDL 5 SM2510B-2011 820538 02/18/2022 3:49 PM	Fraction Dilution Analyst Fraction Dilution Analyst	Qualif 1 MLW Qualif

<u>Project</u> Workorder	1ST QTR 202 3227033	22-3088 RIVER RD								ALS
Client Sa Lab Sam	ample ID Iple ID	3088 River Road, Cone 3227033001	stoga PA				Collected Lab Receipt		02/11/2022 02/11/2022	1:16 PM 4:38 PM
RESULTS										
Compound Specific Con	ductance	<u>CAS No</u> Cond	<u>Result</u> 1140	<u>Units</u> umhos/	cm	<u>RDL</u> 1				<u>Qualifie</u>
Wet Cher S2540C-	mistry (Ger 11	neral)								
	Method N, <u>Batch</u> N, <u>Date</u> N,	p <u>Container</u> /A <u>Aliquot</u> /A <u>Tech.</u>	3227033001-A(Unpreserved) N/A		An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis S2540C-11 820021 02/16/2022 9:30 AM	<u>Fraction</u> Dilution <u>Analyst</u>	1 SMS		
RESULTS										
<u>Compound</u> Total Dissolv	red Solids	<u>CAS No</u> TDS	Result 644	<u>Units</u> mg/L		<u>RDL</u> 25				Qualifie
Wet Chei S4500HE	mistry (Ger 3-11	neral)								
	<u>Method</u> N, <u>Batch</u> N, <u>Date</u> N,	P Container /A <u>Aliquot</u> /A <u>Tech.</u>	3227033001-A(Unpreserved) 50 mL N/A		Method Batch Date	nalysis S4500HB-11 819333 02/14/2022 11:04 PM	Fraction Dilution Analyst	1 MLW	,	
RESULTS										
<u>Compound</u> pH		<u>CAS No</u> PH	<u>Result</u> 8.09	<u>Units</u> pH_Uni	ts	<u>RDL</u>				<u>Qualifie</u> C
Wet Cher SM5310E	mistry (Ger 3-2011	neral)								
	Method N, <u>Batch</u> N, <u>Date</u> N,	p <u>Container</u> /A <u>Aliquot</u> /A <u>Tech.</u>	3227033001-F(Hydrochloric A 6 mL N/A	cid)	An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM5310B-2011 819398 02/15/2022 3:07 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 PAG		
RESULTS										
Compound Total Organic	c Carbon (TOC)	<u>CAS No</u> TOC	<u>Result</u> ND	<u>Units</u> mg/L		<u>RDL</u> 0.50				Qualifier C,N
FLD										

Field

Qualifiers

Qualifiers

Qualifiers

Qualifiers

C,ND

C,4

С

С

Temperature



Client Sample ID Lab Sample ID	3088 River Road, Cones 3227033001	stoga PA			Collected Lab Receipt	02/11/2022 1:16 PM 02/11/2022 4:38 PM
Prep <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227033001-N(Unpreserved) N/A	Ana Method Batch Date	Alysis Field 820603 02/11/2022 1:16 PM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 BGS
RESULTS						
<u>Compound</u>	CAS No	<u>Result</u> Unit	<u>s</u>	RDL		Qualifiers
pH, Field (SM4500B)	PHF	8.03 pH_U	Jnits			C
Specific Conductance, Field	CONDF	664 umh	os/cm	1		C
Temperature	Temp	15.20 Deg.	С			С



		Sample - Method C	ross Reference Table		
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227033001	3088 River Road, Conestoga PA	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

		.iiw			N	CH/ RFOU	AIN OI FST F		TODY NALY		Gen	erated by ALS	L	# 000		322703	- °č
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Notice Common Legislation Common Legislati		CSWMA - Hans Weber and Deb Kalbach	0	Container Type	AG	AN	AN	00 CC	1	님	Ъ	님	ᆋ	:]]			, ig Lab)
Image: 10.1 Image: 10.1 <thimage: 10.1<="" th=""> <thimage: 10.1<="" th=""></thimage:></thimage:>	Control Control <t< td=""><td>tiver Road</td><td></td><td>Container Size</td><td>40 ml</td><td>125 ml</td><td>250 ml</td><td>40 ml</td><td></td><td>50 ml</td><td>125 ml</td><td>125 ml</td><td>500 ml</td><td>500 ml C</td><td>ooler Temp: 1/</td><td>Therm ID: 53</td><td>5</td></t<>	tiver Road		Container Size	40 ml	125 ml	250 ml	40 ml		50 ml	125 ml	125 ml	500 ml	500 ml C	ooler Temp: 1/	Therm ID: 53	5
		toga, PA 17516	P	eservative	豆	H2SO4	-12SO4 A	sc&HCI		12SO4	HN03	HN03	None	None No.	of Coolers:	∞ ≻	Initial
		Veber and Deb Kalbach					ANAL	YSES/ME	THOD RE	QUESTE							
(150000k), Continue 10; (15000kb, Continue 10	Utable Notice in the first of the	19-7982									Ľ						
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Subject on X15 suprovent intra successings. Notice of X15 suprovent by: Approved by: Approved by: Approved by: Approved by: Approved by: Approved by: Colspan="2">Approved by: <th< td=""><td>Reline is ALS egrons in and surveyary. Control of all all all all all all all all all al</td><td>mal-Standard TAT is 10-12 busines:</td><td>davs.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>'өң</td><td>h, K</td><td>s 'io</td><td></td><td>Receipt Info Compl</td><td>leted By: SA</td><td></td></th<>	Reline is ALS egrons in and surveyary. Control of all all all all all all all all all al	mal-Standard TAT is 10-12 busines:	davs.								' ө ң	h, K	s 'io		Receipt Info Compl	leted By: SA	
Approved By	Approval	h-Subject to ALS approval and surr	harnes							-	(BU	Ŋ '£	'80		Sample Custody Sea	al Intact Y N	
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Mill Control CS CS <thcs< th=""> CS CS <</thcs<>	Minimum Control Contro <thcontrol< th=""> <thcontrol< th=""> <thc< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>)C</td><td></td><td> วว'</td><td>ı pə</td><td>,eJ</td><td>C N'S</td><td>- 'A</td><td>Sample Label/COC</td><td>Provided V I</td><td>- -</td></thc<></thcontrol<></thcontrol<>)C		 วว'	ı pə	,eJ	C N'S	- 'A	Sample Label/COC	Provided V I	- -
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Outside District Not Classifie Not	1000000000000000000000000000000000000	scription/Location Sample		Matri	001	<u>1</u> 	(01	254	EW	EHN		ataM ,	, Hq	Alka	VOA Headspace Pro Voa Trip Blank	esent v 🔞 N	NA NA
0211122 1316 6 DW 2 3 X 1 <th< th=""><th>00/11/122 00/11 <</th><th></th><th>*</th><th>"*</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Ieid Kesl</th><th></th><th></th><th></th><th>NJS 4 Days? Rad Screen (uCl)</th><th>~</th><th></th></th<>	00/11/122 00/11 <		*	"*							Ieid Kesl				NJS 4 Days? Rad Screen (uCl)	~	
02111/22 W30 G DW 2 SMM. Compare 02111/2 W30 G DW 2 SMM. Compare 02111/2 W30 G DW 2 SMM. Compare 02111/2 M35 M35 SMM. Compare V 02111/2 M35 SMM. Compare V V 00010 M35 M M35 Field Services: Dickup 00010 M36 M36 M35 Secled Processing Secled Processing 100010 M36 M36 M35 Secled Processing Secled Processing 10011 M36 M36 M36 Secled Processing Secled Processing 10011 M36 M36 M36 Secled Processing Secled Processing 10011 M36 M36 M36 M37 M37 M37 101 M36 M36 M36 M36 M37 M37 101 <td>02111/22 MM G DW ZMA Complete 02111/22 MM Field Fie</td> <td>02/11/22</td> <td>1316 (</td> <td>MO</td> <td>2</td> <td>1</td> <td>2</td> <td>3 X</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>~</td> <td>~</td> <td>Courier/Tracking #:</td> <td></td> <td></td>	02111/22 MM G DW ZMA Complete 02111/22 MM Field Fie	02/11/22	1316 (MO	2	1	2	3 X		-	-	-	~	~	Courier/Tracking #:		
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8 PWSID # Special 10 10 10 10	* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=OII; OL=Other Liquid; SL=Sludge; SO=SoII; WP=WIpe; WW=Waterater											Γ	Yes	–		Lab X	NC
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ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN. PA 17057																	

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301 Fulling !	Mill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>
	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3100 RIVER RD</u> <u>3227032</u> 151785 on 2/24/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collector Company 3227032001 3100 River Road, Conestoga, PA Water 02/11/2022 1:30 PM 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227032001	3100 River Road, Conestoga, PA	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227032002	Trip Blank	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations	
Notation #		
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.	
2	Analyte was analyzed past the 48 hour holding time.	
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.	



Client Sample ID	3100 River Road, Conestoga, PA	Collected	02/11/2022 1:30 PM
Lab Sample ID	3227032001	Lab Receipt	02/11/2022 4:38 PM
Volatiles - GC/MS FPA 524 2			

	F	•rep			\sim	- Ar	alysis ——		
	Method	N/A	<u>Container</u>	3227032001-K(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	820860	Dilution	1
l	Date	N/A	Tech.	N/A	Л	<u>Date</u>	02/19/2022 4:22 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C,ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C.ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C.ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C.ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C.ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	92.90 %	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			$\sim c$	- An	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227032001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	<u>Date</u>	02/15/2022 1:00 PM	Tech.	SRT	ΓĹ	<u>Date</u>	02/17/2022 11:08 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	13.7 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	6.2 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.0094 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	1.5 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	17.0 mg/L	0.50	С

ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com 2/24/2022 7:30 PM

Project	1ST QTR 2022-3100 RIVER RD
Workorder	3227032

Client Sample ID	3100 River Road, Conestoga, PA	Collected	02/11/2022 1:30 PM
Lab Sample ID	3227032001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ——			\neg	Ar	alysis ——			
Method	EPA TRMD	Container	3227032001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	Aliquot	50 mL		Batch	819300	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI		<u>Date</u>	02/15/2022 11:54 AM	<u>Analyst</u>	SRT	

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	11.6 mg/L	0.050	С
Iron, Total	7439-89-6	ND mg/L	0.030	C,ND
Magnesium, Total	7439-95-4	5.2 mg/L	0.050	C
Manganese, Total	7439-96-5	0.0072 mg/L	0.0025	C
Potassium, Total	7440-09-7	1.4 mg/L	0.25	C
Sodium, Total	7440-23-5	14.2 mg/L	0.25	С

Wet Chemistry (General) EPA 300.0

1	—	Prep			$\backslash $	- An	nalysis ———			$\overline{}$
	Method	N/A	Container	3227032001-A(Unpreserved)		Method	EPA 300.0	Fraction		
	Batch	N/A	Aliquot	5 mL		Batch	819999	Dilution	2	
l	<u>Date</u>	N/A	<u>Tech.</u>	N/A	\mathcal{I}	Date	02/15/2022 11:45 PM	<u>Analyst</u>	M1D	

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	39.0 mg/L	2.0	С
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	3.0 mg/L	1.0	C.2
Nitrite-N	NO2	ND mg/L	1.0	C,ND,2
Sulfate	SO4	6.7 mg/L	2.0	С

Wet Chemistry (General) EPA 410.4

Prep		Analysis ———		
Method N/A	Container 3227032001-C(Sulfuric Acid)	Method EPA 410.4	Fraction	
Batch N/A	Aliquot 2 mL	Batch 820242	Dilution 1	
<u>Date</u> N/A	<u>Tech.</u> N/A	Date 02/17/2022 11:10 AM	<u>Analyst</u> ALK	

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C.ND

Client Sample ID 3100 River Road, Conestoga, PA Lab Sample ID 3227032001 Lab Receipt 021112022 1:30 PM Lab Receipt 021112022 1:30 PM Lab Receipt 021112022 1:30 PM Lab Receipt 021112022 1:30 PM Lab Receipt 021112022 1:30 PM Date 32703201 (Sample ID Date 3270322 1:30 PM Date 327022 1:30 PM Date 327022 1:30 PM Date 327022 1:30 PM Date 32702 PM Date 32702 1:30 PM Date 3270 PM Date 3270 PM Dat	<u>Project</u> Workorder	1ST QTR 3227032	2022-3100 RIVER RI)							ALS
Wet Chemistry (General) Prep Mathod 420.4% Container 527/03200-H(Sature Acid) Batch 82007 Alloud 100 mt. Date 02/07/022228.44.AM Toph Anti RESUL75 Container 527/03200-H(Sature Acid) Mathod 100 mt. Wet Chemistry (General) CAS No Besult Units RDL Qualifier Wet Chemistry (General) NA Container 527/03200-H(Sature Acid) Mathod Acid Wet Chemistry (General) NA Container 527/03200-H(Sature Acid) Mathod NA Container Wet Chemistry (General) NA Container 527/03200-H(Sature Acid) Mathod NA Container Batch NA Container 527/03200-H(Sature Acid) Mathod NA Container Wet Chemistry (General) NA Container 527/03200-H(Sature Acid) Mathod NA Container Method NA Container 527/03200-H(Sature Acid) Date NA Date NA Date Method NA	Client S Lab Sar	ample ID nple ID	3100 River 322703200	Road, Cones)1	stoga, PA				Collected Lab Receipt	02/1 02/1	1/2022 1:30 PM 1/2022 4:38 PM
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Compound CAS No Result Units PDL Qualifier Prenotics Prep 0.005 D.M. Wet Chemistry (General) SW846 9020B Prep Analysis Eraction Batch N/A Container 122702201-1(Sutturk Acid) Method N/A Date N/A Container 122702201-1(Sutturk Acid) Method N/A Date N/A Tech. N/A Date 20.6/2022 221 PM Analysis RESULTS Compound CAS No Result Units RDL Qualifier Wet Chemistry (General) TOX ND ugit 20.0 Container ASTM D6919-09 Prop Analysis Eraction Eraction Method N/A Container 322702201-C(Sutturk Acid) Method Malysis RESULTS Container 322702201-C(Sutturk Acid) Method Analysis Analysis RESULTS Container 322702201-C(Sutturk Acid) Date 27/2//2022 826.AM Analysis Wet Chemistry (General) N/A O.318 mg/L 0.100 0 Wet Chemistry (General) Method N/A Container 322702201-A(Unpreservet) Eraction Method N/A	RESULTS										
Wet Chemistry (General) SW846 9020B Analysis Method 1//A Gontainer 327022001-(Sutfuric Acid) Method 1//A Container 327022001-(Sutfuric Acid) Bethod 2008 Fraction Output: Dependence of the secase of the sec	Compound Phenolics	<u>d</u>		CAS No PHENOL	<u>Result</u> ND	<u>Units</u> mg/L		<u>RDL</u> 0.005			<u>Qualifiers</u> C,ND
Prop Analysis Method N/A Aliquot 50 mL Batch N/A Aliquot 50 mL Date N/A Tech N/A Method N/A Analysis Comainer Method N/A Aliquot Smith Date Method N/A Aliquot Smith Date Date Dilution 0 Method N/A Aliquot Smith Date Date Analysis Eraction Method N/A Aliquot Smith Date Date Date Date Date Method N/A Te	Wet Che SW846 §	emistry (G 9020B	General)								
Method N/A Container 3227032001-((Sulfuric Acid) Batch N/A Aliauci 50 mL Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Qualifier Wethod N/A Total OX ND ug/L 20.0 CN Wethod N/A Container 3227032001-C(Sulfuric Acid) Mains Method SW8490208 Fraction Wethod roganic (TOX) TOX ND ug/L 20.0 CN Wethod N/A Container 3227032001-C(Sulfuric Acid) Mains Method SW8490208 Fraction Batch N/A Aliaudi 5 mL 20.0 CN CN Wethod N/A Container 3227032001-C(Sulfuric Acid) Method Strat Motify 0.99 Fraction Batch N/A Aliaudi 5 mL Date 02/24/2022 826 AM Analysis RESULTS Compound CAS No Result Units RDL Qualifier Method N/A Container 3227032001-A(Unpreserved)			Prep ——			$\overline{}$		Analysis ——			
Batch N/A Aliquid 50 mt. Date N/A Tech. N/A Batch 8220233 Dilution 1 Date 02/b/20223.21 PM Analysis PAG RESULTS Compound CAS No Result Units RDL Qualifier Analysis Method N/A Analysis Prop Analysis Method N/A Analysis Prop Analysis Method N/A Analysis RESULTS Method N/A Analysis Method N/A Container 3227032001-C(Suthuric Acid) Batch N/A Aliquot 5 m.L Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Qualifier Annonia-N NH3N 0.318 mg/L 0.100 Method N/A Eraction Batch N/A Analysis Method N/A Container 3227032001-A(Unpreserved) Method N/A Container		<u>Method</u>	N/A	<u>Container</u>	3227032001-I(Sulfuric Acid)		Metho	<u>d</u> SW846 9020B	Fraction		
Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Qualifier Halogen, Total Organic (TOX) TOX ND ug/L 20.0 c.N Wet Chemistry (General) ASTM D6919-09 Fraction Batch N/A Analysis Method N/A Container 322032001-C(Suffuric Acid) Method ASTM D6919-09 Fraction Batch N/A Aliquot 5 mL Date 0/2/2/2022 8:26 AM Analysis RESULTS Compound CAS No Result Units RDL Qualifier Method N/A Tech. N/A Date 0/2/2/2022 8:26 AM Analysis RESULTS Compound CAS No Result Units RDL Qualifier Method NH3N 0.318 mg/L 0.100 0.100 Wet Chemistry (General) SM2130B-2011 Fraction Batch 8/2050-2011 Fraction Method N/A Container 322032001-A(Unpreserver) Mathysis Date 0/2/2/2022 8:06 AM Analysis Method N/A Container 322032001-A(Unpreserver) Date 0/2/0/2022 8:06 AM Analysis <td></td> <td>Batch</td> <td>N/A</td> <td>Aliquot</td> <td>50 mL</td> <td></td> <td>Batch</td> <td>820253</td> <td>Dilution</td> <td>1</td> <td></td>		Batch	N/A	Aliquot	50 mL		Batch	820253	Dilution	1	
RESULTS Compound CAS No Result Units RDL Qualifier Halogen, Total Organic (TOX) TOX ND ugL 20.0 CN Wet Chemistry (General) ASTM D6919-09 Prep Analysis Method ASTM D6919-09 Fraction Method N/A Container 3227032001-C(sulturic Acid) Method ASTM D6919-09 Fraction 10 Date N/A Tech. N/A Date 02/24/2028 26 AM Analysis KESULTS Wet Chemistry (General) SM21308-2011 Vet Chemistry (General) Batch N/A Container 3227032001-A(Unpreserved) Method SM21308-2011 Fraction Method N/A Container 3227032001-A(Unpreserved) Date 0.100 Method N/A Container 3227032001-A(Unpreserved) Date Fraction Method N/A Container 3227032001-A(Unpreserved) Date 0.100		Date	N/A	lech.	N/A		Date	02/16/2022 3:21 PM	<u>Analyst</u>	PAG	
Compound CAS No Result Units RDL Qualifier Halogen, Total Organic (TOX) TOX ND ug/L 20.0 C.N Wet Chemistry (General) AsTM D6919-09 Fraction Batch N/A Method N/A Container 3227032001-C(Sulfuric Acid) Method ASTM D6919-09 Fraction Batch N/A Aliquot 5 mu. Date 02/24/2022 8.26 AM Analysis RESULTS Compound CAS No Result Units RDL Qualifier Wet Chemistry (General) SM2130B-2011 Method N/A Container 3227032001-A(Unpreserved) Date N/A Outainer 3227032001-A(Unpreserved) SM2130B-2011 Method N/A Eraction Method N/A Date N/A ZizTos2200-A(Unpreserved) Method SM2130B-2011 Eraction Method N/A ZizTos2200-A(Unpreserved) Date Dilution 1 Date N/A ZizTos2200-A(Unpreserved) Date Dilution 1	RESULTS										
Halogen, Total Organic (TOX) TOX ND ug/L 20.0 C.N Wet Chemistry (General) ASTM D6919-09 Method N/A Container 3227032001-C(Sulfuric Acid) Batch N/A Aliquot 5 mL Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Qualifier Analysis Method N/A Container 3227032001-A(Unpreserved) Batch N/A Tech. N/A Method SM2130B-2011 Method SM2130B-2011 Fraction Batch 819225 Dilution 1 Date 02/12/20228:06 AM Analyst LXZ	Compound	<u>d</u>		CAS No	<u>Result</u>	<u>Units</u>		<u>RDL</u>			Qualifiers
Wet Chemistry (General) ASTM D6919-09 Analysis Method N/A Container 3227032001-C(Sulfuric Acid) Batch N/A Method ASTM D6919-09 Fraction Batch 820647 Date N/A Tech. N/A Method ASTM D6919-09 Fraction Batch 820647 Dilution 10 Date N/A Tech. N/A Date 02/24/2022 8:26 AM Analyst ALK RESULTS Compound CAS No Result Units RDL Qualifier 0.318 mg/L 0.100 0.100 Wet Chemistry (General) SM2130B-2011 Method N/A Container 3227032001-A(Unpreserved) Batch N/A Aliquot 25 mL Date N/A Tech. N/A	Halogen, To	otal Organic (ΤΟΧ)	тох	ND	ug/L		20.0			C,ND
Prep Analysis Method N/A Container 3227032001-C(Sulfuric Acid) Batch N/A Aliquot 5 mL Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Ammonia-N NH3N 0.318 mg/L 0.100 Wet Chemistry (General) SM2130B-2011 Prep Method N/A Tech. N/A N/A Container 3227032001-A(Unpreserved) Batch 870.280.6 AM Method N/A Container 3227032001-A(Unpreserved) Batch 872.25 Dilution 1 Date N/A Tech. N/A Date 02/12/202.8:06 AM Analysis	Wet Che ASTM D	emistry (G 6919-09	General)								
Method N/A Container 3227032001-C(Sulfuric Acid) Batch N/A Aliquot 5 mL Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Ammonia-N NH3N 0.318 mg/L 0.100 Wet Chemistry (General) SM2130B-2011 Prep Method N/A Aliquot 25 mL Date 02/12/2022 8:06 AM Analysis			Prep ——			_		Analysis ——			
Batch N/A Aliquot 5mL Date N/A Tech. N/A RESULTS Compound CAS No Result Units RDL Ammonia-N NH3N 0.318 mg/L 0.100 Wet Chemistry (General) SM2130B-2011 Prep Method N/A Aliquot 25 mL Date N/A Tech. N/A Method N/A Aliquot 25 mL Date N/A Tech. N/A		Method	N/A	Container	3227032001-C(Sulfuric Acid)		Metho	d ASTM D6919-09	Fraction)
Date N/A Tech. N/A Date 02/24/2022 8:26 AM Analyst ALK RESULTS Compound CAS No Result Units RDL Qualifier Armonia-N NH3N 0.318 mg/L 0.100 Output Wet Chemistry (General) SM2130B-2011 Prep Analysis Method N/A Container 3227032001-A(Unpreserved) Batch N/A Aliquot 25 mL Date 0/12/2022 8:06 AM Analyst LXZ		Batch	N/A	Aliquot	5 mL		Batch	820647	Dilution	10	
RESULTS Compound CAS No Result Units RDL Qualifier Ammonia-N NH3N 0.318 mg/L 0.100 Qualifier Wet Chemistry (General) SM2130B-2011 Prep Analysis Method N/A Container 3227032001-A(Unpreserved) Method SM2130B-2011 Fraction Batch N/A Aliquot 25 mL Dilution 1 Date 02/12/2022 8:06 AM Analysis		<u>Date</u>	N/A	Tech.	N/A		<u>Date</u>	02/24/2022 8:26 AM	<u>Analyst</u>	ALK	
Compound CAS No Result Units RDL Qualifier Ammonia-N NH3N 0.318 mg/L 0.100 0.100 Wet Chemistry (General) SM2130B-2011 Prep Analysis End of the second s	RESULTS										
Ammonia-N NH3N 0.318 mg/L 0.100 Wet Chemistry (General) SM2130B-2011 Prep Method N/A Container 3227032001-A(Unpreserved) Batch N/A Aliquot 25 mL Date N/A Tech. N/A	Compound	<u>d</u>		CAS No	Result	<u>Units</u>		<u>RDL</u>			Qualifiers
Wet Chemistry (General) SM2130B-2011 Prep Analysis Method N/A Container 3227032001-A(Unpreserved) Batch N/A Aliquot 25 mL Date N/A Tech. N/A Date 02/12/2022 8:06 AM Analysis	Ammonia-N	I		NH3N	0.318	mg/L		0.100			C
Prep Analysis Method N/A Container 3227032001-A(Unpreserved) Batch N/A Aliquot 25 mL Date N/A Tech. N/A	Wet Che SM2130	emistry (G B-2011	General)								
MethodN/AContainer3227032001-A(Unpreserved)MethodSM2130B-2011FractionBatchN/AAliquot25 mLBatch819225Dilution1DateN/ATech.N/ADate02/12/2022 8:06 AMAnalystLXZ			Prep			\frown		Analysis ——			
Batch N/A Aliquot 25 mL Date N/A Tech. N/A		<u>Method</u>	N/A	<u>Container</u>	3227032001-A(Unpreserved)		Metho	<u>d</u> SM2130B-2011	Fraction		
Late N/A lecti. N/A Date 02/12/2022 8:06 AM Analyst LXZ		Batch	N/A	<u>Aliquot</u>	25 mL		Batch	819225	Dilution	1	
			N/A	<u>iecn.</u>	N/A	\square		UZ/12/2022 8:06 AM	<u>Analyst</u>	LXZ	

<u>Project</u> Workorder	1ST QTR 202 3227032	2-3100 RIVER RD					ALS
Client Sa Lab Sam	ample ID iple ID	3100 River Road, Cone: 3227032001	stoga, PA			Collected Lab Receipt	02/11/2022 1:30 PM 02/11/2022 4:38 PM
RESULTS							
Compound		CAS No	<u>Result</u>	<u>Units</u>	<u>RDL</u>		Qualifiers
Turbidity		Turb	0.18	NTU	0.10		C
Wet Cher SM2320B	mistry (Gen 3-2011	eral)					
(- Prep)		$ \frown $	Analysis —		
	Method N// Batch N// Date N//	A <u>Container</u> A <u>Aliquot</u> A <u>Tech.</u>	3227032001-A(Unpreserved) 50 mL N/A		Method SM2320B-2011 Batch 819333 Date 02/14/202210:54 P	Fraction Dilution M <u>Analyst</u>	1 MLW
RESULTS							
Compound		<u>CAS No</u>	Result	<u>Units</u>	RDL		Qualifiers
Alkalinity, Bic	carbonate	HCO3	23	mg/L	5		C
Wet Cher SM2320B	mistry (Gen 3-2011 Bror	eral)			Analycis		
ſ	Method N/	Container	3227032001-A(Uppreserved)	\Box	Method SM2320B-2011	Fraction	
	Batch N/	A <u>Aliquot</u>	50 mL		Batch 819333	Dilution	1
C	Date N//	A <u>Tech.</u>	N/A		<u>Date</u> 02/14/2022 10:54 P	м <u>Analyst</u>	MLW
RESULTS							
Compound		CAS No	Result	<u>Units</u>	RDL		Qualifiers
Alkalinity, Tot	tal	ALKI	23	mg/L	5		C;
Wet Cher SM2510B	mistry (Gen 3-2011	eral)					
(Prep)			Analysis —		
	Method N// Batch N//	A <u>Container</u> A Aliquot	3227032001-A(Unpreserved) 50 mL		<u>Method</u> SM2510B-2011 Batch 820538	<u>Fraction</u> Dilution	1
l	Date N/	<u>Tech.</u>	N/A		<u>Date</u> 02/18/2022 3:49 PM	Analyst	вхр
RESULTS							
<u>Compound</u>		CAS No	<u>Result</u>	<u>Units</u>	<u>RDL</u>		Qualifiers
Specific Conc	ductance	Cond	235	umhos/cr	m 1		C
Wet Cher S2540C-1	mistry (Gen 11	eral)					



Client Sample ID Lab Sample ID	3100 River Road, Cones 3227032001	stoga, PA			Collected Lab Receipt	02/11/2022 1:30 PM 02/11/2022 4:38 PM
Pre Pre	p			nalvsis ———		
<u>Method</u> N, <u>Batch</u> N, <u>Date</u> N,	/A <u>Container</u> /A <u>Aliquot</u> /A <u>Tech.</u>	3227032001-A(Unpreserved) N/A	Method Batch Date	S2540C-11 819356 02/15/2022 9:54 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 SMS
RESULTS						
Compound	CAS No	<u>Result</u> <u>Ur</u>	<u>nits</u>	<u>RDL</u>		Qualifiers
Total Dissolved Solids	TDS	184 mg	g/L	25		C
Wet Chemistry (Ger S4500HB-11	neral)		Δ.	nalvsis		
Mothed	(A Container				Fraction	J
Batch N	A <u>Container</u>	3227032001-A(Unpreserved)	Batch	545UUHB-11 819333	<u>Fraction</u> Dilution	1
<u>Date</u> N	/A <u>Tech.</u>	N/A	Date	02/14/2022 10:54 PM	Analyst	MLW
RESULTS						
<u>Compound</u>	CAS No	<u>Result</u> <u>Ur</u>	<u>nits</u>	<u>RDL</u>		Qualifiers
рН	PH	6.98 pH	I_Units			C,3
Wet Chemistry (Ger SM5310B-2011 Pre <u>Method</u> N, <u>Batch</u> N,	p <u>Container</u> /A <u>Aliquot</u>	3227032001-F(Hydrochloric Acid) 6 mL	Method Batch	nalysis SM5310B-2011 819398	Fraction Dilution	1
<u>Date</u> N	/A <u>Tech.</u>	N/A	<u>Date</u>	02/15/2022 3:07 AM	<u>Analyst</u>	PAG
RESULTS						
Compound	CAS No	Result Ur	<u>nits</u>	<u>RDL</u>		Qualifiers
Iotal Organic Carbon (IOC)	100	טווי טא	J/∟	0.50		C,NU
FLD Field Pre	p		Aı	nalysis ———		
Method N	/A Container	3227032001-N(Unpreserved)	Method	Field	Fraction	
Batch N/	/A <u>Aliquot</u>		Batch	820603	Dilution	1
<u>Date</u> N	/A <u>Tech.</u>	N/A		02/11/2022 1:30 PM	<u>Analyst</u>	BGS
RESULTS						
Compound	CAS No	<u>Result</u> <u>Ur</u>	<u>nits</u>	<u>RDL</u>		Qualifiers
pH, Field (SM4500B)	PHF	6.89 pH	I_Units			C
Specific Conductance, Field	CONDF	239 um	nhos/cm	1		C

ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com 2/24/2022 7:30 PM

<u>Project</u> Workorder	1ST QTR 202 3227032	2-3100 RIVER RD				ALS
Client Sa Lab Sam	mple ID ple ID	3100 River Road, Conestoga, PA 3227032001			Collected Lab Receipt	02/11/2022 1:30 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	Result Units	<u>RDL</u>		Qualifiers
Temperature		Тетр	14.10 Deg. C			C



Sample - Method Cross Reference Table						
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method		
3227032001	3100 River Road, Conestoga, PA	Field	N/A			
		EPA 200.7	EPA TRMD			
		EPA 200.7	EPA ACID			
		EPA 524.2	N/A			
		ASTM D6919-09	N/A			
		EPA 300.0	N/A			
		EPA 410.4	N/A			
		EPA 420.4	420.4/9066			
		S2540C-11	N/A			
		S4500HB-11	N/A			
		SM2130B-2011	N/A			
		SM2320B-2011	N/A			
		SM2510B-2011	N/A			
		SM5310B-2011	N/A			
		SW846 9020B	N/A			

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C ALS) Environmental)			REQ	UEST	FOR /	NAL	SIS						
N 14 Cogredo Lares - Middletown, 54 7763 - 6 Phane. 717 344-5441 - 6 Fax. 717 344-1459 • www.sigobal.com 34 Dr. Neuronof 1 and + Middletown, D & 1770.57 + 717 0.41 6.644 + 6.644	80 A A A A		ALL SHA	DED AR	EAS MUS	ST BE CO	MPLETE NS ON T	ED BY TI HF RACI	HE CLIE	NT /			PH: SJB	-
Client Name: LCSWMA - Larry Kirchner	111.344.1430	Container Type	AG	AN	AN	80		Ъ	ЪГ	굽	Ы	- 		iving Lab)
Address: 3100 River Road		Container Size	40 ml	125 ml	250 ml	40 ml	1	250 ml	125 ml	125 ml	500 ml	500 ml Coole	ir Temp: // Therm I	i Stul
Conestoga, PA 17516	<u> </u>	reservative	HCI	H2SO4	H2SO4	Asc&HCI	I	H2SO4	HN03	HN03	None	None No. of	Coolers:	γ N Initial
Contact: Larry Kirchner					ANA	LYSES/MI	ETHOD R	EQUEST	Ū.	-	-			
Phone#: (717) 584-0030		-												
Project Name/#: LCSWMA - Quarterly									nW ,	E	'±'		femp Taken By:	URF
Bill To: Lancaster County Solid Waste MA									6M ,	ב א	70S	- ,	WO Temp (°C) W	
TAT X Normal-Standard TAT is 10-12 busines	ss days.								97 ,6(I ,nM ,	3' CI'		Receipt Info Completed By: Cooler Custody Seal Intact	SA V M
LIKUS-SUDJECT TO ALS approval and sur Date Required: Approved By	rcharges. v:) :slet	6М ,9	ON 'Z	03	Sample Custody Seal Intact Received on Ice	N NA N NA N NA N NA
Email?								d0:	əM t	Я, Б	ON	эн '	cooler & Samples Intact Correct Containers Provided	2 2
Fax?Y No.:			;	Н		NOC		Э 'N-	a olvec	O :sli	ode 'SQI	,vtini	Sample Label/COC Agree Adequate Sample Volumes	2 2
Sample Description/Location Sample (as it will appear on the lab report) Date	Time	ບາດ ຍາ 	201	ш 0-0	ter Numb	er of Conta	LE iners Per (AMDIE OF	Field Rest	ults Below.	7, Hq	Alkal	∕OA Headspace Present ∕oa Trip Blank ህ≤ 4 Davs?	
1 3100RIVERRD 02/11/22	2 1330	D D	1 2	+	2	3	~	-	-	-	-	 	3ad Screen (uCi) Courier/Tracking #:	
2. Trip Blank 02/11/22	KEY .	M M G				~							SDWA Compliance	
C.	2												DISW) >
		_												
		+												
5 2														
9														
7														
8														
6												AL	S Field Services: DP	ickup OLabor
													mposite_sampling L	Kental_Equipmen
Project Comments:	LOGGED BY(si	gnature):					DATE		-3407		s	Standard	Special Processin	g State Sample:
	REVIEWED BY	(signatur	e):				-3TAQ		-3MIT		rable rable	CLP-like	USACE	Collected In
Rejimqujshed By / Company Name	Date	Time		Receiv	ved By / C	ompany l	Name		Date	Time	sC 9vil9	JUSACE	Navy	È D
THE DROWN ARE I	PL22 1	63 2	12 A	MRP	/ AVS	.0			72-11-1	16:38	لت a			2 []
3			4								Reports	ble to PADEP	? Sample Disposa	I X PA
5			9								Yes] de]	NC NC
L 12			œ							Lika	# CISM		Special	
6 of			9								EDDS: F	ormat Type-		
* G=Grab; C=Compc	osite **Mat	rix - Al=	Air; DW=C	rinking Wa	ter; GW=G	roundwate	r; OI=OII; C)L=Other L	iquid; SL=	Sludge; St	D=Soil; WI	⁵ =Wipe; WW=V	lastewater	-
2	ALS ENVI	RONM	ENTAL :	SHIPPING	ADDRE	SS: 34 DC	JOOWDC) LANE, I	MIDDLE	TOWN, P.	A 17057		Formandamental (10) (10) (1)	Rev 8/0 ²

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301 Fulling M	iill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>
	NELA State Certifi	P Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3106 RIVER RD</u> <u>3227031</u> 152089 on 2/25/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Lab ID Sample ID Matrix Date Collected Date Received Collector Collector Company 3227031001 3106 River Road, Conestoga, PA Water 02/11/2022 1:37 PM Date Received 02/11/2022 4:38 PM BGS Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227031001	3106 River Road, Conestoga, PA	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227031002	Trip Blank	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations
Notation #	
0	Result reported exceeds instrument calibration
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	Analyte was analyzed past the 48 hour holding time.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



 Client Sample ID
 3106 River Road, Conestoga, PA
 Collected
 02/11/2022 1:37 PM

 Lab Sample ID
 3227031001
 Lab Receipt
 02/11/2022 4:38 PM

 Volatiles - GC/MS
 EPA 524.2
 EPA 524.2
 EPA 524.2

C	- Prep				γ	- An	nalysis ———		
	Method	N/A	Container	3227031001-J(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	820860	Dilution	1
	<u>Date</u>	N/A	Tech.	N/A	\mathcal{I}	Date	02/19/2022 2:10 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C.ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C.ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C.ND
Benzene	71-43-2	ND ug/L	0.50	C.ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C.ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C.ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C.ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C.ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C.ND
Trichloroethene	79-01-6	ND ug/L	0.50	C.ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C.ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	93.70%	70 – 130	

Metals Analytical

EPA 200.7

1	F	Prep			$\sim c$	- An	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227031001-E(Nitric Acid)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	<u>Date</u>	02/15/2022 1:00 PM	Tech.	SRT	\mathcal{F}	<u>Date</u>	02/17/2022 11:05 AM	<u>Analyst</u>	SRT

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Dissolved	7440-70-2_D	39.9 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	13.8 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	0.058 mg/L	0.0050	C
Potassium, Dissolved	7440-09-7_D	2.3 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	41.1 mg/L	0.50	C

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Client Sample ID	3106 River Road, Conestoga, PA	Collected	02/11/2022 1:37 PM
Lab Sample ID	3227031001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep			\neg	Ar	nalysis ———			
Method	EPA TRMD	<u>Container</u>	3227031001-D1(Nitric Acid)		Method	EPA 200.7	Fraction		
Batch	819233	Aliquot	50 mL		Batch	819300	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI		Date	02/15/2022 11:43 AM	<u>Analyst</u>	SRT	

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	32.0 mg/L	0.050	С
Iron, Total	7439-89-6	ND mg/L	0.030	C,ND
Magnesium, Total	7439-95-4	11.3 mg/L	0.050	C
Manganese, Total	7439-96-5	0.047 mg/L	0.0025	C
Potassium, Total	7440-09-7	1.9 mg/L	0.25	C
Sodium, Total	7440-23-5	33.4 mg/L	0.25	С

Wet Chemistry (General) EPA 300.0

1		Prep			۲ (- An	ialysis ———			
	Method	N/A	Container	3227031001-A(Unpreserved)		Method	EPA 300.0	Fraction		
	Batch	N/A	Aliquot	5 mL		Batch	819999	Dilution	2	
l	Date	N/A	<u>Tech.</u>	N/A	八	<u>Date</u>	02/15/2022 11:24 PM	<u>Analyst</u>	M1D	

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	97.4 mg/L	2.0	С
Fluoride	F	ND mg/L	0.20	C.ND
Nitrate-N	NO3	10.5 mg/L	1.0	C.0.2
Nitrite-N	NO2	ND mg/L	1.0	C,ND,2
Sulfate	SO4	5.1 mg/L	2.0	C

Wet Chemistry (General) EPA 410.4

~ F	Prep			$\setminus C$	— An	alysis ———		
Method	N/A	<u>Container</u>	3227031001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction	
Batch	N/A	<u>Aliquot</u>	2 mL		Batch	820242	Dilution	1
Date	N/A	Tech.	N/A	\mathcal{I}	<u>Date</u>	02/17/2022 11:10 AM	<u>Analyst</u>	ALK

RESULTS

Compound	CAS No	Result Units	RDL	<u>Qualifiers</u>
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND

<u>Project</u> Workorder	1ST QTR 3227031	2022-3106 RIVER RE)							ALS
Client Sa Lab Sam	ample ID nple ID	3106 River 322703100	Road, Cones)1	stoga, PA				Collected Lab Receipt	02/11/202 02/11/202	2 1:37 PM 2 4:38 PM
Wet Che EPA 420	mistry (G .4	General)								
	<u>Method</u> <u>Batch</u> <u>Date</u>	Prep 420.4/9066 820317 02/18/2022 8:46 AM	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-H(Sulfuric Acid 100 mL AKH))	An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis EPA 420.4 820736 02/18/2022 12:36 PM	Fraction Dilution A <u>Analyst</u>	1 AKH	
RESULTS										
Compound Phenolics	<u> </u>		CAS No PHENOL	<u>Resu</u> N	I <u>lt</u> <u>Units</u> IDmg/L		<u>RDL</u> 0.005			Qualifiers C,ND
Wet Che SW846 9	mistry (G 020B	General)								
	<u>Method</u> <u>Batch</u> <u>Date</u>	Prep N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-1(Sulfuric Acid) 50 mL N/A		An Method Batch Date	nalysis SW846 9020B 820253 02/16/2022 2:46 PM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 PAG	
RESULTS										
Compound Halogen, Tot	<u>l</u> tal Organic (TOX)	CAS No TOX	<u>Resu</u> N	I <u>lt</u> <u>Units</u> ID ug/L		<u>RDL</u> 20.0			Qualifiers C,ND
Wet Che ASTM De	mistry (G 6919-09	General)								
	<u>Method</u> <u>Batch</u> <u>Date</u>	Prep N/A N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-C(Sulfuric Acid 5 mL N/A)	An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis ASTM D6919-09 820648 02/25/2022 6:50 AM	Fraction Dilution Analyst	10 ALK	
RESULTS										
<u>Compound</u> Ammonia-N	<u> </u>		CAS No NH3N	<u>Resu</u> 0.4	l <u>t Units</u> 14 mg/L		<u>RDL</u> 0.100			<u>Qualifiers</u> c
Wet Che SM2130E	mistry (G B-2011	General)								
	<u>Method</u> <u>Batch</u> <u>Date</u>	Prep N/A N/A N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-A(Unpreserved 25 mL N/A	1)	An <u>Method</u> <u>Batch</u> <u>Date</u>	nalysis SM2130B-2011 819225 02/12/2022 8:06 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 LXZ	

<u>Project</u> Workorder	1ST QTR 2022- 3227031	3106 RIVER RD					ALS
Client Sa Lab Sam	ample ID iple ID	3106 River Road, Cones 3227031001	stoga, PA			Collected Lab Receipt	02/11/2022 1:37 PM 02/11/2022 4:38 PM
RESULTS							
<u>Compound</u>		CAS No	<u>Result</u>	<u>Units</u>	RDL		Qualifiers
Turbidity		Turb	0.30	NTU	0.10		C
Wet Cher SM2320B	mistry (Gene 3-2011	ral)					
(Prep			\neg	— Analysis —		
	MethodN/ABatchN/ADateN/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-A(Unpreserved) 50 mL N/A		Method SM2320B-2011 Batch 819333 Date 02/14/2022 10:4	Fraction Dilution 3 PM <u>Analyst</u>	1 MLW
RESULTS							
<u>Compound</u>		CAS No	<u>Result</u>	<u>Units</u>	RDL		Qualifiers
Alkalinity, Bic	carbonate	HCO3	77	mg/L	5		C
Wet Cher SM2320B	mistry (Gene 3-2011 -	ral)					
(Prep	Contrinor	00000000 A // J		Analysis —	Freetien	
	<u>Batch</u> N/A	<u>Aliquot</u>	3227031001-A(Unpreserved) 50 mL		<u>Method</u> SM2320B-2011 <u>Batch</u> 819333	<u>Dilution</u>	1
	Date N/A	<u>Tech.</u>	N/A		Date 02/14/2022 10:4	зрм <u>Analyst</u>	MLW
RESULTS							
Compound		CAS No	Result	<u>Units</u>	RDL		Qualifiers
Alkalinity, Tot	tal	ALKI	11	mg/L	5		C,1
Wet Cher SM2510B	mistry (Gene 3-2011	ral)					
(Prep			(Analysis —		
	<u>Method</u> N/A Batch N/A	<u>Container</u> Aliquot	3227031001-A(Unpreserved) 50 mL		<u>Method</u> SM2510B-2011 Batch 820538	<u>Fraction</u> Dilution	1
	Date N/A	Tech.	N/A		<u>Date</u> 02/18/2022 3:49	PM <u>Analyst</u>	BXD
RESULTS							
Compound		CAS No	<u>Result</u>	<u>Units</u>	RDL		Qualifiers
Specific Cond	ductance	Cond	593	umhos/cr	n 1		C
Wet Cher S2540C-1	mistry (Gene 11	ral)					



Client Sample ID Lab Sample ID	3106 River Road, Cone 3227031001	stoga, PA			(Collected _ab Receipt	02/11/2022 1:37 PM 02/11/2022 4:38 PM
- Prec				– An	alvsis ——		
Method N/A Batch N/A Date N/A	<u>Container</u> Aliquot Tech.	3227031001-A(Unpreserved) N/A		<u>Aethod</u> Batch Date	S2540C-11 819356 02/15/2022 9:54 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 SMS
RESULTS							
<u>Compound</u>	CAS No	<u>Result</u> L	<u> Inits</u>		<u>RDL</u>		Qualifiers
Total Dissolved Solids	TDS	422 m	ng/L		25		C
Wet Chemistry (Gene S4500HB-11 Prep	eral)			– An	alysis ———		
Method N/A	Container	3227031001-A(Unpreserved)		/lethod	S4500HB-11	Fraction	
Batch N/A	Aliquot	50 mL		Batch	819333	Dilution	1
Date N/A	Tech.	N/A		Date	02/14/202210:43 PM	Analyst	мlw
RESULTS							
<u>Compound</u>	CAS No	<u>Result</u>	<u>Jnits</u>		<u>RDL</u>		Qualifiers
pH	PH	7.94 p	H_Units				C,3
Wet Chemistry (Gen SM5310B-2011 Prep <u>Method</u> N/A <u>Batch</u> N/A <u>Date</u> N/A	eral) <u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227031001-F(Hydrochloric Acid 6 mL N/A		– An Method Batch Date	alysis SM5310B-2011 819398 02/15/2022 3:07 AM	<u>Fraction</u> <u>Dilution</u> <u>Analyst</u>	1 PAG
RESULTS							
<u>Compound</u>	CAS No	<u>Result</u> <u>L</u>	<u> Inits</u>		<u>RDL</u>		<u>Qualifiers</u>
Total Organic Carbon (TOC)	TOC	ND m	ng/L		0.50		C,ND
FLD Field		2027001001 1///		– Ana	alysis ———		
Method N/A Batch N/A	A <u>Container</u> Aliquot	3227031001-M(Unpreserved)		<u>/lethod</u> Batch	Field 820603	Fraction Dilution	1
	<u>Tech.</u>	N/A		Date	02/11/2022 1:37 PM	Analyst	BGS
RESULTS							
Compound	CAS No	Result L	<u>Jnits</u>		<u>RDL</u>		Qualifiers
pH, Field (SM4500B)	PHF	7.89 p	H_Units		4		C
Specific Conductance, Field	CONDF	432 u	mnos/cm		1		C

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<u>Project</u> Workorder	1ST QTR 202 3227031	2-3106 RIVER RD				ALS
Client Sa Lab Sam	mple ID ple ID	3106 River Road, Conestoga, PA 3227031001			Collected Lab Receipt	02/11/2022 1:37 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	Result Units	RDL		Qualifiers
Temperature		Тетр	13.90 Deg. C			C


		Sample - Method C	ross Reference Table		
Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method	
3227031001	3106 River Road, Conestoga, PA	Field	N/A		
		EPA 200.7	EPA TRMD		
		EPA 200.7	EPA ACID		
		EPA 524.2	N/A		
		ASTM D6919-09	N/A		
		EPA 300.0	N/A		
		EPA 410.4	N/A		
		EPA 420.4	420.4/9066		
		S2540C-11	N/A		
		S4500HB-11	N/A		
		SM2130B-2011	N/A		
		SM2320B-2011	N/A		
		SM2510B-2011	N/A		
		SM5310B-2011	N/A		
		SW846 9020B	N/A		

Machine Machine <t< th=""><th></th><th>(</th><th></th><th>E CH</th><th>AIN O</th><th>F CUS</th><th>TODY/</th><th>(</th><th>Genera</th><th>ted by ALS</th><th><u>ပ</u></th><th></th><th>3221</th><th>2031 1</th></t<>		(E CH	AIN O	F CUS	TODY/	(Genera	ted by ALS	<u>ပ</u>		3221	2031 1
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	Client Name: LCSWMA - Aaron Fry	Containe Type	ar AG	AN	AN	90		۲ ۲	5	5	Ы	D		ving Lab)
Concention (A) (T(d)) Concention (A) (T(d)) <thconcention (a)="" (t(d))<="" th=""></thconcention>	Address: 3106 River Road	Containe Size	er 40 ml	125 ml	250 ml	40 ml		0 ml 12	5 ml 12	5 ml 5	00 ml 5	0 ml Cooler	Temp: \\ Therm	<u> </u>
	Conestoga, PA 17516	Preservat	ive HCI	H2SO4	H2SO4 A	sc&HCI	H2	SO4 HI	NO3 H	<u>103</u>	one	one Nro-		Initial
Options Option	Contact: Aaron Fry				ANAL	YSES/MET	THOD REQ	UESTED			-			
Inductional Control Induction	Phone#: (717) 669-6831							-	-		-	,		05
	Project Name/#: LCSWMA - Quarterly							nM		=		ma I em	Temp (°C)	
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Reliportished Py / Company Name Date Time Received By / Company Name Date Time Set Navy Navy <td></td> <td>REVIEWED BY (signatu</td> <td>ıre):</td> <td></td> <td></td> <td></td> <td>:ƏTAQ</td> <td></td> <td>.awr</td> <td></td> <td>rable</td> <td>CLP-like</td> <td>USACE</td> <td>Collected In</td>		REVIEWED BY (signatu	ıre):				:ƏTAQ		.awr		rable	CLP-like	USACE	Collected In
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0 6 Lab X 1 8 NC 1 10 PWSID # * G=Grab: C=Composite *Matrix - Al=Air, DW=Drinking Water; GW=Groundwater; O1=O1i; O1=Other Liquid; S1=Sludge; SO=Soil; WP=Wrpe, WW=Wraster			4							2	Reportab	e to PADEP?	Sample Disposa	I X PA
* G=Grab: C=Composite * Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=OII; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Water; MW=Water; OI			9								Yes		Lab [NC NC
Image: Second state 10 10 EDDS: Format Type- * G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=OII; OL=Other Liquid; SL=Sludge; SO=SoII; WP=Wipe; WW=Wastewater			8							<u>a</u>	/SID#		Special	
* 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			10								DDS: For	nat Type-		
	* G=Grab; C=Compos	site **Matrix - AI	=Air; DW=D	rinking Wate	er; GW=Gro	undwater; (DI=Oil; OL=(Other Liqu	id; SL=SIL	idge; SO=	Soil; WP=	Vipe; WW=Wa	stewater	





301 Fulling	Mill Road	Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430 <u>www.alsglobal.com</u>
	NELA State Certifi	NP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 cations: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343
Analytical Results Report For	Lancaster Project Workorder Report ID	County Solid Waste Authority <u>1ST QTR 2022-3125 RIVER RD</u> <u>3227030</u> 151791 on 2/24/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Feb 11, 2022.

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 Susan Scherer (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 Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Ashley Gichuki - Lancaster County Solid Waste Authority Daniel Brown - Lancaster County Solid Waste Authority Jordan Gallagher - Lancaster County Solid Waste Authority Jeff Musser - Lancaster County Solid Waste

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

Susan Scherer

Susan Scherer Project Coordinator (ALS Digital Signature)



Sample Summary

Lab ID	Sample ID	<u>Matrix</u>	Date Collected	Date Received	<u>Collector</u>	Collection Company
3227030001	3125 River Road, Conestoga, PA	Water	02/11/2022 2:05 PM	02/11/2022 4:38 PM	BGS	Analytical Laboratory Service
3227030002	Field Blank	Water	02/11/2022 3:00 PM	02/11/2022 4:38 PM	BGS	Analytical Laboratory Service
3227030003	Trip Blank	Water	02/11/2022 4:38 PM	02/11/2022 4:38 PM	BGS	Analytical Laboratory Service



Reference

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).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- 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.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- 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



		Sample Notations
Lab ID	Sample ID	
3227030001	3125 River Road, Conestoga, PA	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227030002	Field Blank	This sample was cancelled per project specifications.
		Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.
3227030003	Trip Blank	Sample temperature upon receipt at lab was greater than 6 °C.
		Sample temperature upon receipt at lab was greater than 6 °C.

	Result Notations
Notation #	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The QC sample type MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.83mg/L and the control limit is less than 0.44mg/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.



 Client Sample ID
 3125 River Road, Conestoga, PA
 Collected
 02/11/2022 2:05 PM

 Lab Sample ID
 3227030001
 Lab Receipt
 02/11/2022 4:38 PM

 Volatiles - GC/MS
 EPA 524.2
 EPA 524.2
 EPA 524.2

Analysis Prep Container 3227030001-K(Ascorbic + HCl) Method N/A Method EPA 524.2 Fraction VOA_Trace 5 mL **Dilution** Batch <u>Aliquot</u> Batch 820860 1 N/A Date N/A Tech. N/A Date 02/19/2022 2:37 AM Analyst PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C,ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C.ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C.ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C.ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C.ND

SURROGATES

Compound	CAS No	Recovery	Limits(%)	<u>Qualifiers</u>
4-Bromofluorobenzene	460-00-4	90.40%	70 – 130	

Metals Analytical

EPA 200.7

(F	Prep ———			$\wedge $	- An	alysis ———		
	Method	EPA ACID	<u>Container</u>	3227030001-E(Unpreserved)		Method	EPA 200.7	Fraction	
	Batch	820075	<u>Aliquot</u>	100 mL		Batch	820077	Dilution	1
	Date	02/15/2022 1:00 PM	Tech.	SRT	\mathcal{I}	<u>Date</u>	02/17/2022 11:02 AM	<u>Analyst</u>	SRT

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Calcium, Dissolved	7440-70-2_D	6.7 mg/L	0.10	С
Iron, Dissolved	7439-89-6_D	ND mg/L	0.060	C.ND
Magnesium, Dissolved	7439-95-4_D	0.89 mg/L	0.10	C
Manganese, Dissolved	7439-96-5_D	ND mg/L	0.0050	C,ND
Potassium, Dissolved	7440-09-7_D	2.8 mg/L	0.50	C
Sodium, Dissolved	7440-23-5_D	137 mg/L	0.50	C

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Client Sample ID	3125 River Road, Conestoga, PA	Collected	02/11/2022 2:05 PM
Lab Sample ID	3227030001	Lab Receipt	02/11/2022 4:38 PM

Metals Analytical EPA 200.7

	Prep ——			\neg	Ar	nalysis ———			
Method	EPA TRMD	Container	3227030001-D1(Nitric Acid)] [Method	EPA 200.7	Fraction		
Batch	819232	Aliquot	50 mL		Batch	819299	Dilution	1	
<u>Date</u>	02/12/2022 11:08 AM	Tech.	AHI		Date	02/14/2022 4:19 PM	<u>Analyst</u>	SRT	

RESULTS

Compound	CAS No	<u>Result</u> <u>Units</u>	<u>RDL</u>	Qualifiers
Calcium, Total	7440-70-2	6.2 mg/L	0.050	С
Iron, Total	7439-89-6	ND mg/L	0.030	C,ND
Magnesium, Total	7439-95-4	0.79 mg/L	0.050	C
Manganese, Total	7439-96-5	0.0027 mg/L	0.0025	C
Potassium, Total	7440-09-7	2.6 mg/L	0.25	C
Sodium, Total	7440-23-5	127 mg/L	0.25	C

Wet Chemistry (General) EPA 300.0

	Prep		$\backslash $	- Ar	alysis ——		
Method	d N/A	Container 3227030001-A(Unpreserved)		Method	EPA 300.0	Fraction	
Batch	N/A	<u>Aliquot</u> 5 mL		Batch	819377	Dilution	2
Date	N/A	Tech. N/A	ノし	Date	02/12/2022 3:46 PM	<u>Analyst</u>	M1D

RESULTS

Compound	CAS No	Result Units	RDL	Qualifiers
Chloride	CI	75.7 mg/L	2.0	C.2
Fluoride	F	ND mg/L	0.20	C,ND
Nitrate-N	NO3	4.6 mg/L	1.0	C
Nitrite-N	NO2	ND mg/L	1.0	C.ND
Sulfate	SO4	10.2 mg/L	2.0	С

Wet Chemistry (General) EPA 410.4

F	Prep			\neg	— Ar	nalysis ———			 ١
Method	N/A	Container	3227030001-C(Sulfuric Acid)		Method	EPA 410.4	Fraction		
Batch	N/A	Aliquot	2 mL		Batch	820330	Dilution	1	
Date	N/A	Tech.	N/A	八	Date	02/17/2022 1:45 PM	<u>Analyst</u>	ALK	J

RESULTS

Compound	CAS No	Result Units	<u>RDL</u>	Qualifiers
Chemical Oxygen Demand (COD)	COD	ND mg/L	15	C,ND



Client Sa Lab Samı Wet Chen EPA 420.4	mple ID ple ID nistry (G 4	3125 River 322703000	Road, Cones)1	stoga, PA			Collected	02/11/2022 2:05 PM
Wet Chen EPA 420.4	nistry (G 4	eneral)					Lab Receipt	02/11/2022 4:38 PM
ſ								
		Prep				— Analysis –		
	Method	420.4/9066	Container	3227030001-H(Sulfuric Acid)) (Method EPA 420.4	Fraction	
1	Batch	820317	Aliquot	100 mL		Batch 820736	Dilution	1
Ĺ	Date	02/18/2022 8:46 AM	Tech.	АКН		<u>Date</u> 02/18/2022 12:	33 PM <u>Analyst</u>	АКН
RESULTS								
<u>Compound</u>			CAS No	<u>Result</u> Unit	S	RDL		Qualifie
Phenolics			PHENOL	ND mg/l	-	0.005		C,N
Wet Chen SW846 9(nistry (G)20B	ieneral)						
(- 1	Prep				Analysis		
(Method	N/A	Container	3227030001-1(Sulfuric Acid)) (Method SW8469020B	Fraction	
	Batch	N/A	Aliquot	50 mL		Batch 820253	Dilution	1
Ĺ	Date	N/A	Tech.	N/A		Date 02/16/2022 1:01	9 PM <u>Analyst</u>	PAG
RESULTS								
<u>Compound</u>			CAS No	<u>Result</u> Unit	S	RDL		Qualifier
Halogen, Tota	al Organic (1	ΓΟΧ)	тох	ND ug/L		20.0		C,N
Wet Chen ASTM D6	nistry (G 919-09	ieneral)						
	I	Prep ——				Analysis		
(Method	N/A	Container	3227030001-C(Sulfuric Acid)) (Method ASTM D6919-0	9 Fraction	
	Batch	N/A	Aliquot	5 mL		Batch 820647	Dilution	10
Ĺ	Date	N/A	Tech.	N/A		Date 02/24/2022 11:	28 AM <u>Analyst</u>	ALK
RESULTS								
Compound			<u>CAS N</u> o	<u>R</u> esult Unit	S	RDL		Qualifier
Ammonia-N			NH3N	0.215 mg/l	-	0.100		
Wet Chen SM2130B	nistry (G -2011	ieneral)						
(1	Prep ———			(Analysis –		
	Method	N/A	<u>Container</u>	3227030001-A(Unpreserved)		Method SM2130B-2011	Fraction	
	Batch	N/A	Aliquot	25 mL		Batch 819225	Dilution	1
	Date	N/A	Tech.	N/A	ノし	Date 02/12/2022 8:0	6 AM <u>Analyst</u>	LXZ

<u>Project</u> <u>Workorder</u>	1ST QTR 2022- 3227030	3125 RIVER RD					ALS
Client Sa Lab Sam	ample ID iple ID	3125 River Road, Cones 3227030001	stoga, PA			Collected Lab Receipt	02/11/2022 2:05 PM 02/11/2022 4:38 PM
RESULTS							
Compound		CAS No	<u>Result</u>	<u>Units</u>	<u>RDL</u>		Qualifiers
Turbidity		Turb	ND	NTU	0.10		C,ND
Wet Cher SM2320E	mistry (Gene 3-2011	ral)					
(Prep			\neg	Analysis —		
	Method N/A Batch N/A Date N/A	<u>Container</u> <u>Aliquot</u> <u>Tech.</u>	3227030001-A(Unpreserved) 50 mL N/A		Method SM2320B-2011 Batch 819333 Date 02/14/202210:33	<u>Fraction</u> <u>Dilution</u> PM <u>Analyst</u>	1 MLW
RESULTS							
Compound		CAS No	<u>Result</u>	<u>Units</u>	<u>RDL</u>		Qualifiers
Alkalinity, Bic	carbonate	HCO3	167	mg/L	5		C
Wet Cher SM2320E	mistry (Gene 3-2011	ral)					
(Prep			(Analysis —	Ens ation	
	Batch N/A	<u>Aliquot</u>	3227030001-A(Unpreserved) 50 mL		<u>Method</u> SM2320B-2011 <u>Batch</u> 819333	<u>Dilution</u>	1
l	Date N/A	<u>Tech.</u>	N/A		Date 02/14/2022 10:33	РМ <u>Analyst</u>	MLW
RESULTS							
Compound		CAS No	Result	<u>Units</u>	RDL		<u>Qualifiers</u>
Alkalinity, Tot	tal	ALKI	167	mg/L	5		C,1
Wet Cher SM2510E	mistry (Gene 3-2011	ral)					
(Prep			(Analysis —		
	<u>Method</u> N/A Batch N/A	<u>Container</u> Aliquot	3227030001-A(Unpreserved) 50 mL		<u>Method</u> Sм2510B-2011 Batch 820538	<u>Fraction</u> Dilution	1
	Date N/A	Tech.	N/A		<u>Date</u> 02/18/2022 3:49 F	РМ <u>Analyst</u>	BXD
RESULTS							
<u>Compound</u>		CAS No	Result	<u>Units</u>	<u>RDL</u>		Qualifiers
Specific Cond	ductance	Cond	680	umhos/cr	m 1		С
Wet Cher S2540C-	mistry (Gene 11	ral)					





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<u>Project</u> Workorder	1ST QTR 202 3227030	2-3125 RIVER RD				ALS
Client Sa Lab Sam	mple ID ple ID	3125 River Road, Conestoga, PA 3227030001			Collected Lab Receipt	02/11/2022 2:05 PM 02/11/2022 4:38 PM
RESULTS						
<u>Compound</u>		CAS No	Result Units	<u>RDL</u>		Qualifiers
Temperature		Тетр	14.30 Deg. C			C



Client Sample ID
Lab Sample IDField Blank
3227030002Collected
D2/11/2022 3:00 PM
D2/11/2022 4:38 PMVolatiles - GC/MS

EPA 524.2

1	- F	rep			$\backslash \subset$	– An	alysis ———		
	Method	N/A	<u>Container</u>	3227030002-A(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	822267	Dilution	1
	Date	N/A	Tech.	N/A		Date	02/24/2022 5:34 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C.ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C,ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C.ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C.ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C.ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C.ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C.ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

<u>Compound</u>	CAS No	<u>Recovery</u>	Limits(%)	Qualifiers
4-Bromofluorobenzene	460-00-4	96.40%	70 – 130	



Client Sample ID
Lab Sample IDTrip BlankCollected02/11/2022 4:38 PMSample ID3227030003Lab Receipt02/11/2022 4:38 PMVolatiles - GC/MS

EPA 524.2

(~~ F	Prep			$\setminus C$	- An	alysis ———		
	Method	N/A	<u>Container</u>	3227030003-A(Ascorbic + HCl)		Method	EPA 524.2	Fraction	VOA_Trace
	Batch	N/A	<u>Aliquot</u>	5 mL		Batch	822267	Dilution	1
	Date	N/A	Tech.	N/A	Л	Date	02/24/2022 6:52 AM	<u>Analyst</u>	PDK

RESULTS

<u>Compound</u>	CAS No	Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	ND ug/L	0.50	C,ND
1,1-Dichloroethane	75-34-3	ND ug/L	0.50	C.ND
1,1-Dichloroethene	75-35-4	ND ug/L	0.50	C,ND
1,2-Dibromoethane	106-93-4	ND ug/L	0.50	C,ND
1,2-Dichloroethane	107-06-2	ND ug/L	0.50	C,ND
Benzene	71-43-2	ND ug/L	0.50	C,ND
cis-1,2-Dichloroethene	156-59-2	ND ug/L	0.50	C,ND
Ethylbenzene	100-41-4	ND ug/L	0.50	C,ND
Methylene Chloride	75-09-2	ND ug/L	0.50	C,ND
Tetrachloroethene	127-18-4	ND ug/L	0.50	C,ND
Toluene	108-88-3	ND ug/L	0.50	C,ND
Total Xylenes	1330-20-7	ND ug/L	0.50	C,ND
trans-1,2-Dichloroethene	156-60-5	ND ug/L	0.50	C,ND
Trichloroethene	79-01-6	ND ug/L	0.50	C,ND
Trichlorofluoromethane	75-69-4	ND ug/L	0.50	C,ND
Vinyl Chloride	75-01-4	ND ug/L	0.50	C,ND

SURROGATES

<u>Compound</u>	CAS No	<u>Recovery</u>	Limits(%)	Qualifiers
4-Bromofluorobenzene	460-00-4	96.20%	70 – 130	



Sample - Method Cross Reference Table Lab ID Sample ID Preparation Method Leachate Method Analysis Method 3227030001 N/A 3125 River Road, Conestoga, PA Field EPA 200.7 EPA TRMD EPA 200.7 EPA ACID EPA 524.2 N/A ASTM D6919-09 N/A EPA 300.0 N/A EPA 410.4 N/A EPA 420.4 420.4/9066 S2540C-11 N/A S4500HB-11 N/A SM2130B-2011 N/A SM2320B-2011 N/A SM2510B-2011 N/A SM5310B-2011 N/A SW846 9020B N/A 3227030002 Field Blank EPA 524.2 N/A EPA 524.2 3227030003 Trip Blank N/A

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)			REQ	UEST	FOR /	NALY	SIS					Logged By:	(SB of
101	gobicem 4 • Eav: 717 QAA	001	ALL SH	ADED AR SAMPI	EAS MUS	ST BE CO RUCTIO	MPLETE VS ON TH	d by the He back			AL	Š		
Client Name: LCSVMA - Christian C. Beck	-++0.1/1.44	Containe	AG	AN	AN	8	-	님	占	Н				ing Lab)
Address: 3125 River Road		Containe Size	40 m	125 ml	250 ml	40 ml		250 ml	25 ml 1	25 ml 50() ml 500	Co U	ler Temp:]] Therm ID:	S74
Conestoga, PA 17516		Preservati	ve HCI	H2S04	H2SO4	Ę	-	42SO4 +	INO3 F	NO3 No	ne Nc	ne No. oi	f[تمامية	u Initial
Contact: Christian C. Beck					ANA	LYSES/M	ETHOD RE	EQUESTEI						1
Phone#: (717) 871-0448								u	- 11				Temp Taken By:	AMAF
Project Name/#: LCSWMA - Quarterly								M 2		4' E'			WO Temp (°C) Therm ID: SJY	
Bill To: Lancaster County Solid Waste MA								<u> </u>	e' INI	os' √'X		8	X Receipt Info Completed By: Cooler Custody Seal Intact	ACJF N
TAT Normal-Standard TAT is 10-12 bus	siness days.								u 'PO	'uW 'E			Sample Custody Seal Intact Received on Ice	
Late Remited - ADD approval and Date Remited - Approve	a surcnarges. ed Bv:								.cibis	,e, Mi		604	Cooler & Samples Intact Correct Containers Provided	_ ₹_?
Email?						(aini n	F, Isc ON , I			Sample Label/COC Agree	2 7
Fax? No.:		;	{	H)	λος) 'N-{	evios Bla) :sle	Oq2	(10.00	Adequate sample volumes VOA Headspace Present	, A
Sample Description/Location San	nple	6 or C		0-0	(01	254	EW			teM da	ʻqT	Cour	if Voa Trip Blank If NJ≤ 4 Days? Dad 6 2000 (100)	¹ ≸ ∠ \$) ^{>}
(as it will appear on the lab report)	ate)*			Enter Numb			ample of r	Ieia Kesui	IS Delow.			Courier/Tracking#:	
1 3125RIVERRD 02/1	11/22 140	0 0	W 2	-	2	3	×	1	1	1			Courte Counciloners	Ģ
2. Field Blank	11/00 15/0	د بر	W			R .0	10200						PWSID)
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3. Trip Blank 02/1	1/22 1100	0 0	W			2							1	Т
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Project Comments:	TOGGEI	D BY(signatur	e;		_		-3140		:JMIT			Standard	Special Processing	State Samples
	REVIEW	ED BY(signat	ture):				DVIE		TIME:		:əlds:	CLP-like		Collected In
Relinguished By / Company Name	Dat	e Tim	- -	Rec	eived By / (Company	Name		Date	Time	əvilə	USACE	Navy	È
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3	•		4								Reportab	e to PADE	EP? Sample Disposal	A A
G			9								Yes			2
<u> </u>			8							g	VSID #		Special	
<u>റ</u>			9								DDS: For	mat Type-		
* G=Grab; C=C	Composite Al S	**Matrix - A	VI=Air; DW IMFNTAI	=Drinking V SHIPPIN	Vater; GW=0	Sroundwatt	er; ol=oil; c OGWOOI	0L=Other L	quid; SL=; AIDDLET	Sludge; SU= OWN, PA	=Soil; WH= 17057	Wipe; WW	=Wastewater	Rev 8/04