2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3044 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 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 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/05/2025 Sample Collection Time: 10:40 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/18/2025

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 LCSWMA

Sample Date: 11/05/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	8	SM20-2321
CALCIUM, TOTAL	13.5	EPA 200.7
CALCIUM, DISSOLVED	14.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	18.2	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	10.1	EPA 200.7
MAGNESIUM, DISSOLVED	10.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	12	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	12	EPA 200.7
NITRATE-NITROGEN	17.4	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.: PS LCSWMA

Sample Date: 11/05/2025

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)	5.35	FIELD
pH-LAB (SU)	7.19	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	8.7	EPA 200.7
SODIUM, DISSOLVED	9.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	235	FIELD
SPEC. COND., LAB (umhos/cm)	233	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	8	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	190	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.55	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.: PS LCSWMA

Sample Date: 11/05/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: MILLER

Address: 3052 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 29.85 " Longitude: 76 ° 26 ' 11.45 "

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 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 7:00 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/13/2025

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 MILLER

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	16.3	EPA 200.7
CALCIUM, DISSOLVED	16.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19.7	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	8.3	EPA 200.7
MAGNESIUM, DISSOLVED	9.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	24	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	27	EPA 200.7
NITRATE-NITROGEN	17.3	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.: PS MILLER

Sample Date: 11/03/2025

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)	4.98	FIELD
pH-LAB (SU)	6.81	SM4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.7	EPA 200.7
SODIUM, TOTAL	7.9	EPA 200.7
SODIUM, DISSOLVED	7.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	255	FIELD
SPEC. COND., LAB (umhos/cm)	225	EPA 120.1
SULFATE	2.5	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	161	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.4	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.: PS MILLER

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3056 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 28.44 " Longitude: 76 ° 26 ' 10.43 "

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 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 7:20 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/13/2025

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 LCSWMA

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	11.1	EPA 200.7
CALCIUM, DISSOLVED	10.8	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	25.8	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	12.1	EPA 200.7
MAGNESIUM, DISSOLVED	12.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	87	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	77	EPA 200.7
NITRATE-NITROGEN	15.4	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.: PS LCSWMA

Sample Date: 11/03/2025

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)	5.1	FIELD
pH-LAB (SU)	6.76	SM4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	9.4	EPA 200.7
SODIUM, DISSOLVED	8.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	250	FIELD
SPEC. COND., LAB (umhos/cm)	227	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	148	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1	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.: PS LCSWMA

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
DEP USE ONLY
Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3060 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 27.63 " Longitude: 76 ° 26 ' 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 Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 7:50 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/13/2025

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 LCSWMA

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	6	SM20-2321
CALCIUM, TOTAL	11	EPA 200.7
CALCIUM, DISSOLVED	11.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	16	EPA 410.2
CHLORIDE	17.9	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	11.6	EPA 200.7
MANGANESE, TOTAL (ug/l)	110	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	100	EPA 200.7
NITRATE-NITROGEN	15.3	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.: PS LCSWMA

Sample Date: 11/03/2025

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)	5.16	FIELD
pH-LAB (SU)	6.79	SM4500B
POTASSIUM, TOTAL	2.7	EPA 200.7
POTASSIUM, DISSOLVED	2.5	EPA 200.7
SODIUM, TOTAL	9.1	EPA 200.7
SODIUM, DISSOLVED	8.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	245	FIELD
SPEC. COND., LAB (umhos/cm)	220	EPA 120.1
SULFATE	9.5	EPA 300
ALKALINITY	6	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	149	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.6	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.: PS LCSWMA

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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FORM 52
MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: SENSENICH

Address: 3076 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 28.2 " Longitude: 76 ° 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.

Sampling Depth: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 8:30 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/18/2025

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 SENSENICH

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	7	SM20-2321
CALCIUM, TOTAL	14.4	EPA 200.7
CALCIUM, DISSOLVED	15.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	56.7	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	8.9	EPA 200.7
MAGNESIUM, DISSOLVED	8.9	EPA 200.7
MANGANESE, TOTAL (ug/l)	150	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	150	EPA 200.7
NITRATE-NITROGEN	9.2	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.: PS SENSENICH

Sample Date: 11/03/2025

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)	5.09	FIELD
pH-LAB (SU)	6.83	SM4500B
POTASSIUM, TOTAL	3.4	EPA 200.7
POTASSIUM, DISSOLVED	3.7	EPA 200.7
SODIUM, TOTAL	27.6	EPA 200.7
SODIUM, DISSOLVED	27.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	323	FIELD
SPEC. COND., LAB (umhos/cm)	359	EPA 120.1
SULFATE	12	EPA 300
ALKALINITY	7	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	193	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.2	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.: PS SENSENICH

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: LCSWMA

Address: 3079 RIVER 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: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/05/2025 Sample Collection Time: 10:00 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/18/2025

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 LCSWMA

Sample Date: 11/05/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	20	SM20-2321
CALCIUM, TOTAL	9.8	EPA 200.7
CALCIUM, DISSOLVED	10.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	28.3	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	5.6	EPA 200.7
MAGNESIUM, DISSOLVED	5.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	18	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	19	EPA 200.7
NITRATE-NITROGEN	2.1	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.: PS LCSWMA

Sample Date: 11/05/2025

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)	5.43	FIELD
pH-LAB (SU)	7.31	SM4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	13.6	EPA 200.7
SODIUM, DISSOLVED	14.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	185	FIELD
SPEC. COND., LAB (umhos/cm)	180	EPA 120.1
SULFATE	9.1	EPA 300
ALKALINITY	20	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	159	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.95	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.: PS LCSWMA

Sample Date: 11/05/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
DEP USE ONLY
Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: WEBER

Address: 3088 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 21 " Longitude: 76 ° 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: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 9:00 AM

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 11/13/2025

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 WEBER

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	221	SM20-2321
CALCIUM, TOTAL	0.47	EPA 200.7
CALCIUM, DISSOLVED	0.38	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	19	EPA 410.2
CHLORIDE	497	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.17	EPA 200.7
MAGNESIUM, DISSOLVED	0.16	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	12.1	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.: PS WEBER

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	2.5 ND	EPA 300
pH-FIELD (SU)	6.6	FIELD
pH-LAB (SU)	8.21	SM4500B
POTASSIUM, TOTAL	3.9	EPA 200.7
POTASSIUM, DISSOLVED	2.6	EPA 200.7
SODIUM, TOTAL	293	EPA 200.7
SODIUM, DISSOLVED	319	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	1396	FIELD
SPEC. COND., LAB (umhos/cm)	2090	EPA 120.1
SULFATE	5 ND	EPA 300
ALKALINITY	221	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1120	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.65	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.: PS WEBER

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
DEP USE ONLY
Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: KIRCHNER

Address: 3100 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 17.9 " Longitude: 76 ° 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: ft. Sampling Method: [ ] Pumped [ ] Bailed

Well Purged: [ ] Yes [X] No Well Volumes Purged:

Sample Field Filtered (must be 0.45 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/06/2025 Sample Collection Time: 9:00 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/18/2025

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 KIRCHNER

Sample Date: 11/06/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	16	SM20-2321
CALCIUM, TOTAL	11.4	EPA 200.7
CALCIUM, DISSOLVED	12.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	46.1	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	6.4	EPA 200.7
MAGNESIUM, DISSOLVED	7	EPA 200.7
MANGANESE, TOTAL (ug/l)	10	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	11	EPA 200.7
NITRATE-NITROGEN	3.8	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.: PS KIRCHNER

Sample Date: 11/06/2025

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)	4.9	FIELD
pH-LAB (SU)	7.29	SM4500B
POTASSIUM, TOTAL	1.5	EPA 200.7
POTASSIUM, DISSOLVED	1.5	EPA 200.7
SODIUM, TOTAL	18.7	EPA 200.7
SODIUM, DISSOLVED	19.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	151	FIELD
SPEC. COND., LAB (umhos/cm)	232	EPA 120.1
SULFATE	5.6	EPA 300
ALKALINITY	16	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	167	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

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.: PS KIRCHNER

Sample Date: 11/06/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
DEP USE ONLY
Date Received

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

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General Reference: Act 101 Section 1103

SECTION A. SITE IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: FRY

Address: 3106 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 17.27 " Longitude: 76 ° 26 ' 5.6 "

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 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 9:30 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/13/2025

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 FRY

Sample Date: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	14	SM20-2321
CALCIUM, TOTAL	25.2	EPA 200.7
CALCIUM, DISSOLVED	24.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	137	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	16.9	EPA 200.7
MAGNESIUM, DISSOLVED	16.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	45	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	42	EPA 200.7
NITRATE-NITROGEN	8.8	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.: PS FRY

Sample Date: 11/03/2025

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)	5.44	FIELD
pH-LAB (SU)	7.05	SM4500B
POTASSIUM, TOTAL	2.4	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	51.9	EPA 200.7
SODIUM, DISSOLVED	48.4	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	553	FIELD
SPEC. COND., LAB (umhos/cm)	562	EPA 120.1
SULFATE	5.3	EPA 300
ALKALINITY	14	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	344	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.75	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.: PS FRY

Sample Date: 11/03/2025

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.

2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
02/03/2026
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: Lancaster County Solid Waste Manage

Site Name: Frey Farm Landfill

Facility ID (as issued by DEP): 101389

SECTION B. PRIVATE WATER SUPPLY INFORMATION

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Frey Farm Landfill

County: Lancaster County

Township or Municipality: MANOR TOWNSHIP

Landowner Name: BECK

Address: 3125 RIVER ROAD

Phone No.:

Sampling Point: Latitude: 39 ° 57 ' 11.6 " Longitude: 76 ° 26 ' 5.4 "

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 micron)?: [X] Yes [ ] No

Sample Date:(mm/dd/yy) 11/03/2025 Sample Collection Time: 10:00 AM

Laboratory(ies) Performing Analysis (include address and phone number): ALS Environmental
301 Fulling Mill Road
Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s): 22-293

Lab Analysis Date: 11/13/2025

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: 11/03/2025

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	93	SM20-2321
CALCIUM, TOTAL	0.088	EPA 200.7
CALCIUM, DISSOLVED	0.1 ND	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	96.9	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	0.05 ND	EPA 200.7
MAGNESIUM, DISSOLVED	0.1 ND	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	4.7	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.: PS BECK

Sample Date: 11/03/2025

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)	6.18	FIELD
pH-LAB (SU)	7.91	SM4500B
POTASSIUM, TOTAL	0.81	EPA 200.7
POTASSIUM, DISSOLVED	0.63	EPA 200.7
SODIUM, TOTAL	107	EPA 200.7
SODIUM, DISSOLVED	108	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	504	FIELD
SPEC. COND., LAB (umhos/cm)	539	EPA 120.1
SULFATE	12.9	EPA 300
ALKALINITY	93	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	300	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.7	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.: PS BECK

Sample Date: 11/03/2025

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.

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025 3044 RIVER RD
Workorder 3441928
Report ID 476805 on 11/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 05, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441928001	3044 River Road, Conestoga, PA	Water	11/05/2025 10:40	11/05/2025 16:20	EMP	ALS Environmental-Middletown
3441928002	Trip Blank	Water	11/05/2025 00:00	11/05/2025 16:20	EMP	ALS Environmental-Middletown
3441928003	Field Blank	Water	11/05/2025 10:40	11/05/2025 16:20	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.

Detected Results Summary

Client Sample ID	3044 River Road, Conestoga, PA	Collected	11/05/2025 10:40
Lab Sample ID	3441928001	Lab Receipt	11/05/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	9.14	mg/L	0.01	Field	#
Oxidation-Reduction Potential	296	mV		Field	#
pH, Field (SM4500B)	5.35	pH_Units		Field	#
Specific Conductance, Field	235	umhos/cm	1	Field	#
Temperature	16.10	Deg. C		Field	#
METALS					
Calcium, Dissolved	14.6	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	10.3	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.012	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.012	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.8	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	9.2	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.7	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	8	mg/L	5	SM2320B-2011	#
Alkalinity, Total	8	mg/L	5	SM2320B-2011	#
Chloride	18.2	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.4	mg/L	1.0	EPA 300.0	#
pH	7.19	pH_Units		S4500HB-11	#
Specific Conductance	233	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	190	mg/L	25	SM2540C-15	#
Turbidity	0.55	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	11/05/2025 10:40
Lab Sample ID	3441928001	Lab Receipt	11/05/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	9.14		mg/L	0.01	Field	1	11/05/2025 10:40	E2P	P
Oxidation-Reduction Potential	296		mV		Field	1	11/05/2025 10:40	E2P	P
pH, Field (SM4500B)	5.35		pH_Units		Field	1	11/05/2025 10:40	E2P	P
Specific Conductance, Field	235		umhos/cm	1	Field	1	11/05/2025 10:40	E2P	P
Temperature	16.10		Deg. C		Field	1	11/05/2025 10:40	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	14.6		mg/L	0.10	EPA 200.7	1	11/14/2025 15:39	RBP	F
Calcium, Total	13.5		mg/L	0.050	EPA 200.7	1	11/14/2025 13:23	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/13/2025 12:45	RBP	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/17/2025 18:13	MSY	D1
Magnesium, Dissolved	10.3		mg/L	0.10	EPA 200.7	1	11/13/2025 12:45	RBP	F
Magnesium, Total	10.1		mg/L	0.050	EPA 200.7	1	11/14/2025 13:23	RBP	D1
Manganese, Dissolved	0.012		mg/L	0.0050	EPA 200.7	1	11/13/2025 12:45	RBP	F
Manganese, Total	0.012		mg/L	0.0025	EPA 200.7	1	11/14/2025 13:23	RBP	D1
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	1	11/13/2025 12:45	RBP	F
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	11/14/2025 13:23	RBP	D1
Sodium, Dissolved	9.2		mg/L	0.50	EPA 200.7	1	11/13/2025 12:45	RBP	F
Sodium, Total	8.7		mg/L	0.25	EPA 200.7	1	11/14/2025 13:23	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 05:10	PDK	N

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	82.8%	70 – 130	11/17/2025 05:10	

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	11/05/2025 10:40
Lab Sample ID	3441928001	Lab Receipt	11/05/2025 16:20

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	8		mg/L	5	SM2320B-2011	1	11/08/2025 08:37	JXK	A
Alkalinity, Total	8	1	mg/L	5	SM2320B-2011	1	11/08/2025 08:37	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/11/2025 11:47	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/11/2025 14:41	KMS	C
Chloride	18.2		mg/L	2.0	EPA 300.0	2	11/07/2025 08:15	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/07/2025 08:15	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/13/2025 16:20	PAG	K
Nitrate-N	17.4		mg/L	1.0	EPA 300.0	2	11/07/2025 08:15	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/07/2025 08:15	J1W	A
pH	7.19	2	pH_Units		S4500HB-11	1	11/08/2025 08:37	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/17/2025 15:54	ZEB	J
Specific Conductance	233		umhos/cm	5	SM2510B-2011	1	11/18/2025 08:50	MYM	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	11/07/2025 08:15	J1W	A
Total Dissolved Solids	190		mg/L	25	SM2540C-15	1	11/10/2025 16:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/10/2025 22:17	PAG	H
Turbidity	0.55		NTU	0.30	SM2130B-2011	1	11/07/2025 08:13	NPF	A

Results

Client Sample ID	Trip Blank	Collected	11/05/2025 00:00
Lab Sample ID	3441928002	Lab Receipt	11/05/2025 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:12	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	82.5%	70 – 130	11/17/2025 00:12	

Results

Client Sample ID	Field Blank	Collected	11/05/2025 10:40
Lab Sample ID	3441928003	Lab Receipt	11/05/2025 16:20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 00:35	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	85.3%	70 – 130	11/17/2025 00:35	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441928001	3044 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3441928002	Trip Blank	EPA 524.2	N/A	
3441928003	Field Blank	EPA 524.2	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441928001	3044 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA TRMD	1486031	11/13/2025 08:48	RMH	EPA 200.7	1486308
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486092
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486378
		EPA TRMD	1486031	11/13/2025 08:48	RMH	EPA 200.7	1488317
		N/A	N/A	N/A		EPA 524.2	1486573
		N/A	N/A	N/A		EPA 300.0	1484222
		N/A	N/A	N/A		EPA 410.4	1485477
		SW846 9066	1485303	11/12/2025 07:56	ZEB	EPA 420.4	1486584
		N/A	N/A	N/A		S4500HB-11	1484330
		N/A	N/A	N/A		SM 4500-NH3G	1484254
		N/A	N/A	N/A		SM2130B-2011	1484223
		N/A	N/A	N/A		SM2320B-2011	1484330
		N/A	N/A	N/A		SM2510B-2011	1485479
		N/A	N/A	N/A		SM2540C-15	1485362
		N/A	N/A	N/A		SM5310B-14	1485384
		N/A	N/A	N/A		SW846 9020B	1486036
3441928002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1486573
3441928003	Field Blank	N/A	N/A	N/A		EPA 524.2	1486573

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3441928
Logged By: SLS
PM: SJB

of

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

Receiving Lab)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

Container Type	AG	AN	AN	CG	P	P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml	500ml	250ml	125ml	125ml	1L	
Preservative	HCL	H2SO4	H2SO4	ASCHCL	UNP	H2SO4	HNO3	HNO3	UNP	

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	Alkalinity, HCO3	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	
							Enter Number of Containers Per Sample or Field Results Below.									
1	3044RIVERRD	11/5/25	1040		G	DW	2	2	1	3	1	1	2	2	1	
2	Trip Blank	—	—		G	Di				3						
3	Field Blank	11/5/25	1040		G	DI				3						
4		Hch	11/5/25													
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: #49 WO Temp (°C) 4

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA	Deviations? NO YES
Sample Custody Seal Intact	Y	N	NA	If YES, list below
Received on Ice	Y	N	NA	
Coolers & Samples Intact	Y	N		
Correct Containers Provided	Y	N		
Sample Label/COC Agree	Y	N		
Adequate Sample Volumes	Y	N		
VOA only: Trip Blank	Y	N	NA	
NJ ≤ 4 days?	Y	N		Client contact:
Courier/Tracking #				Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments: PH-5.35 Spc 235 temp 6.1 DO 9.14 Orp 396

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-5-25	1620	1	ALS	2	Faheyd ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client Lanc. Cty Solid Waste Workorder 3441928

Temp °C 4 Therm ID 649 Ice? (Y) N N/A Initials & Date HKh 11/5/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location		✓		UC.
•Date and time of sample collection		|		|
•Type(s) of preservation		|		|
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	|			
Proper containers, preservation, and volume per method	|			
Received within hold time	|			
Containers intact	|			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)	✓			
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			|	
OP Samples Filtered			|	
WV Containers 0-6°C			|	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025 3052 RIVER RD
Workorder 3441553
Report ID 475884 on 11/17/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441553001	3052 River Road, Conestoga, PA	Water	11/03/2025 07:00	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3052 River Road, Conestoga, PA	Collected	11/03/2025 07:00
Lab Sample ID	3441553001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	4.98	pH_Units		Field	#
Specific Conductance, Field	255	umhos/cm	1	Field	#
Temperature	14.50	Deg. C		Field	#
METALS					
Calcium, Dissolved	16.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	16.3	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.2	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.027	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.024	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.7	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	7.6	mg/L	0.50	EPA 200.7	#
Sodium, Total	7.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	7	mg/L	5	SM2320B-2011	#
Alkalinity, Total	7	mg/L	5	SM2320B-2011	#
Chloride	19.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.3	mg/L	1.0	EPA 300.0	#
pH	6.81	pH_Units		S4500HB-11	#
Specific Conductance	225	umhos/cm	5	SM2510B-2011	#
Sulfate	2.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	161	mg/L	25	SM2540C-15	#
Turbidity	0.40	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	11/03/2025 07:00
Lab Sample ID	3441553001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	4.98		pH_Units		Field	1	11/03/2025 07:00	E2P	P
Specific Conductance, Field	255		umhos/cm	1	Field	1	11/03/2025 07:00	E2P	P
Temperature	14.50		Deg. C		Field	1	11/03/2025 07:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	16.5		mg/L	0.10	EPA 200.7	1	11/06/2025 17:09	MSY	F
Calcium, Total	16.3	3	mg/L	0.050	EPA 200.7	1	11/07/2025 11:36	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:09	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/07/2025 11:36	RBP	D1
Magnesium, Dissolved	9.2		mg/L	0.10	EPA 200.7	1	11/06/2025 17:09	MSY	F
Magnesium, Total	8.3	3	mg/L	0.050	EPA 200.7	1	11/07/2025 11:36	RBP	D1
Manganese, Dissolved	0.027		mg/L	0.0050	EPA 200.7	1	11/06/2025 17:09	MSY	F
Manganese, Total	0.024		mg/L	0.0025	EPA 200.7	1	11/07/2025 11:36	RBP	D1
Potassium, Dissolved	1.7		mg/L	0.50	EPA 200.7	1	11/06/2025 17:09	MSY	F
Potassium, Total	1.7		mg/L	0.25	EPA 200.7	1	11/07/2025 11:36	RBP	D1
Sodium, Dissolved	7.6		mg/L	0.50	EPA 200.7	1	11/06/2025 17:09	MSY	F
Sodium, Total	7.9		mg/L	0.25	EPA 200.7	1	11/07/2025 11:36	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:23	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91%	70 – 130	11/13/2025 13:23	

WET CHEMISTRY

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	11/03/2025 07:00
Lab Sample ID	3441553001	Lab Receipt	11/03/2025 11:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	7		mg/L	5	SM2320B-2011	1	11/06/2025 19:37	JXK	A
Alkalinity, Total	7	1	mg/L	5	SM2320B-2011	1	11/06/2025 19:37	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 13:30	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/05/2025 12:33	KMS	C
Chloride	19.7		mg/L	2.0	EPA 300.0	2	11/04/2025 13:04	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 13:04	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/12/2025 17:21	PAG	K
Nitrate-N	17.3		mg/L	1.0	EPA 300.0	2	11/04/2025 13:04	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/04/2025 13:04	J1W	A
pH	6.81	2	pH_Units		S4500HB-11	1	11/06/2025 19:37	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 14:52	ZEB	J
Specific Conductance	225		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	2.5		mg/L	2.0	EPA 300.0	2	11/04/2025 13:04	J1W	A
Total Dissolved Solids	161		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	0.40		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441553001	3052 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441553001	3052 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA TRMD	1484015	11/06/2025 08:30	RMH	EPA 200.7	1484240
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1483447
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484260

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441553
Logged By: SLS
PM: SJB

3 of

Client Name: LCSWMA Gerald E Miller Sr

Address: 3052 River Rd
Conestoga PA 17516

Contact: Gerald E Miller Sr

Phone#: 717-872-5117

Project Name/#: LCSWMA Quarterly

Bill To: LCSWMA

Purchase Order #:

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

Date Required: Approved?

Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3052RIVERRD	11/3/25	07:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: 352 WO Temp (°C) 5 *(y Receiving Lab)*

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, llist below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP **ID:**

Comments: PH-4.98 Soc-255 Temp 14.5

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
___ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441553

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date HCh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025-3056 RIVER RD
Workorder 3441552
Report ID 475888 on 11/17/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441552001	3056RIVERRD	Water	11/03/2025 07:20	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.

Detected Results Summary

Client Sample ID	3056RIVERRD	Collected	11/03/2025 07:20
Lab Sample ID	3441552001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.10	pH_Units		Field	#
Specific Conductance, Field	250	umhos/cm	1	Field	#
Temperature	13.30	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.8	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.1	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	12.2	mg/L	0.10	EPA 200.7	#
Magnesium, Total	12.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.077	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.087	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.9	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.1	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.2	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.4	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	6	mg/L	5	SM2320B-2011	#
Alkalinity, Total	6	mg/L	5	SM2320B-2011	#
Chloride	25.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	15.4	mg/L	1.0	EPA 300.0	#
pH	6.76	pH_Units		S4500HB-11	#
Specific Conductance	227	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	148	mg/L	25	SM2540C-15	#
Turbidity	1.0	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3056RIVERRD	Collected	11/03/2025 07:20
Lab Sample ID	3441552001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.10		pH_Units		Field	1	11/03/2025 07:20	E2P	P
Specific Conductance, Field	250		umhos/cm	1	Field	1	11/03/2025 07:20	E2P	P
Temperature	13.30		Deg. C		Field	1	11/03/2025 07:20	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.8		mg/L	0.10	EPA 200.7	1	11/06/2025 17:05	MSY	F
Calcium, Total	11.1		mg/L	0.050	EPA 200.7	1	11/12/2025 11:49	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:05	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/12/2025 11:49	RBP	D1
Magnesium, Dissolved	12.2		mg/L	0.10	EPA 200.7	1	11/06/2025 17:05	MSY	F
Magnesium, Total	12.1		mg/L	0.050	EPA 200.7	1	11/12/2025 11:49	RBP	D1
Manganese, Dissolved	0.077		mg/L	0.0050	EPA 200.7	1	11/06/2025 17:05	MSY	F
Manganese, Total	0.087		mg/L	0.0025	EPA 200.7	1	11/12/2025 11:49	RBP	D1
Potassium, Dissolved	1.9		mg/L	0.50	EPA 200.7	1	11/06/2025 17:05	MSY	F
Potassium, Total	2.1		mg/L	0.25	EPA 200.7	1	11/12/2025 11:49	RBP	D1
Sodium, Dissolved	8.2		mg/L	0.50	EPA 200.7	1	11/06/2025 17:05	MSY	F
Sodium, Total	9.4		mg/L	0.25	EPA 200.7	1	11/12/2025 11:49	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:00	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.6%	70 – 130	11/13/2025 13:00	

WET CHEMISTRY

Results

Client Sample ID	3056RIVERRD	Collected	11/03/2025 07:20
Lab Sample ID	3441552001	Lab Receipt	11/03/2025 11:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	6		mg/L	5	SM2320B-2011	1	11/06/2025 19:23	JXK	A
Alkalinity, Total	6	1	mg/L	5	SM2320B-2011	1	11/06/2025 19:23	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 14:00	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/05/2025 12:33	KMS	C
Chloride	25.8		mg/L	2.0	EPA 300.0	2	11/04/2025 12:52	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 12:52	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/12/2025 17:21	PAG	K
Nitrate-N	15.4		mg/L	1.0	EPA 300.0	2	11/04/2025 12:52	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/04/2025 12:52	J1W	A
pH	6.76	2	pH_Units		S4500HB-11	1	11/06/2025 19:23	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 15:04	ZEB	J
Specific Conductance	227		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	11/04/2025 12:52	J1W	A
Total Dissolved Solids	148		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	1.0		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441552001	3056RIVERRD	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441552001	3056RIVERRD	N/A	N/A	N/A		Field	
		EPA TRMD	1485484	11/11/2025 08:38	RMH	EPA 200.7	1485825
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1483447
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484260

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

CC
AI

3441552
Logged By: SLS
PM: SJB

of

ing Lab)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

Container Type	AG	AN	AN	CG		P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3056RIVERRD	11/3/25	07:20		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11?3/25	NA		G	Di				R3 HCl 11/3/25						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: JJC WO Temp (°C) 5

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP **ID:**

Comments: PH- 5.10 SpC- 250 temp. 13.3

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
___ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441552

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date HCh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

11/17/2025 12:28 PM

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025-3060 RIVER RD
Workorder 3441551
Report ID 475880 on 11/17/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441551001	3060RIVERRD	Water	11/03/2025 07:50	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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 QC sample type MS for method SW846 9020B was outside the control limits for the analyte Halogen, Total Organic (TOX). The % Recovery was reported as 68.8 and the control limits were 80 to 120.
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.

Detected Results Summary

Client Sample ID	3060RIVERRD	Collected	11/03/2025 07:50
Lab Sample ID	3441551001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	0.31	mg/L	0.01	Field	#
pH, Field (SM4500B)	5.16	pH_Units		Field	#
Specific Conductance, Field	245	umhos/cm	1	Field	#
Temperature	17.20	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.2	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.0	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.6	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.10	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.11	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.5	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.7	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.4	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.1	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	6	mg/L	5	SM2320B-2011	#
Alkalinity, Total	6	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	16	mg/L	15	EPA 410.4	#
Chloride	17.9	mg/L	2.0	EPA 300.0	#
Halogen, Total Organic (TOX)	69.9	ug/L	20.0	SW846 9020B	#
Nitrate-N	15.3	mg/L	1.0	EPA 300.0	#
pH	6.79	pH_Units		S4500HB-11	#
Specific Conductance	220	umhos/cm	5	SM2510B-2011	#
Sulfate	9.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	149	mg/L	25	SM2540C-15	#
Turbidity	0.60	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3060RIVERRD	Collected	11/03/2025 07:50
Lab Sample ID	3441551001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	0.31		mg/L	0.01	Field	1	11/03/2025 07:50	E2P	P
pH, Field (SM4500B)	5.16		pH_Units		Field	1	11/03/2025 07:50	E2P	P
Specific Conductance, Field	245		umhos/cm	1	Field	1	11/03/2025 07:50	E2P	P
Temperature	17.20		Deg. C		Field	1	11/03/2025 07:50	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.2		mg/L	0.10	EPA 200.7	1	11/06/2025 17:15	MSY	F
Calcium, Total	11.0		mg/L	0.050	EPA 200.7	1	11/12/2025 11:24	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:15	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/12/2025 11:24	RBP	D1
Magnesium, Dissolved	11.6		mg/L	0.10	EPA 200.7	1	11/06/2025 17:15	MSY	F
Magnesium, Total	11.3		mg/L	0.050	EPA 200.7	1	11/12/2025 11:24	RBP	D1
Manganese, Dissolved	0.10		mg/L	0.0050	EPA 200.7	1	11/06/2025 17:15	MSY	F
Manganese, Total	0.11		mg/L	0.0025	EPA 200.7	1	11/12/2025 11:24	RBP	D1
Potassium, Dissolved	2.5		mg/L	0.50	EPA 200.7	1	11/06/2025 17:15	MSY	F
Potassium, Total	2.7		mg/L	0.25	EPA 200.7	1	11/12/2025 11:24	RBP	D1
Sodium, Dissolved	8.4		mg/L	0.50	EPA 200.7	1	11/06/2025 17:15	MSY	F
Sodium, Total	9.1		mg/L	0.25	EPA 200.7	1	11/12/2025 11:24	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:37	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	92.1%	70 – 130	11/13/2025 12:37	

Results

Client Sample ID	3060RIVERRD	Collected	11/03/2025 07:50
Lab Sample ID	3441551001	Lab Receipt	11/03/2025 11:30

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	6		mg/L	5	SM2320B-2011	1	11/06/2025 19:07	JXK	A
Alkalinity, Total	6	1	mg/L	5	SM2320B-2011	1	11/06/2025 19:07	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 14:09	AYS	C
Chemical Oxygen Demand (COD)	16		mg/L	15	EPA 410.4	1	11/05/2025 12:33	KMS	C
Chloride	17.9		mg/L	2.0	EPA 300.0	2	11/04/2025 12:39	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 12:39	J1W	A
Halogen, Total Organic (TOX)	69.9	2	ug/L	20.0	SW846 9020B	1	11/06/2025 16:47	PAG	K
Nitrate-N	15.3		mg/L	1.0	EPA 300.0	2	11/04/2025 12:39	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/04/2025 12:39	J1W	A
pH	6.79	3	pH_Units		S4500HB-11	1	11/06/2025 19:07	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 14:57	ZEB	J
Specific Conductance	220		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	9.5		mg/L	2.0	EPA 300.0	2	11/04/2025 12:39	J1W	A
Total Dissolved Solids	149		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	0.60		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441551001	3060RIVERRD	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441551001	3060RIVERRD	N/A	N/A	N/A		Field	
		EPA TRMD	1485484	11/11/2025 08:38	RMH	EPA 200.7	1485825
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1483447
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484029

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441551
Logged By: SLS
PM: SJB

of

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3060RIVERRD	11/3/25	07:50		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				3						
3										HCN						
4										11/3/25						
5																
6																
7																
8																
9																
10																

(eceiving Lab)
Temp Taken By: 2 WO Temp (°C) 5

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP **ID:**

Comments: PH. 5.16 Spc-245 temp-17.2 DO 0.31

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	Equis ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441551

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date HKh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4th QTR 2025-3076 RIVER RD
Workorder 3441550
Report ID 476555 on 11/19/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441550001	3076 River Road, Conestoga, PA	Water	11/03/2025 08:30	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.

Detected Results Summary

Client Sample ID	3076 River Road, Conestoga, PA	Collected	11/03/2025 08:30
Lab Sample ID	3441550001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.09	pH_Units		Field	#
Specific Conductance, Field	323	umhos/cm	1	Field	#
Temperature	15.10	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.7	mg/L	0.10	EPA 200.7	#
Calcium, Total	14.4	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	8.9	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.9	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.15	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.15	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	3.7	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	27.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	27.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	7	mg/L	5	SM2320B-2011	#
Alkalinity, Total	7	mg/L	5	SM2320B-2011	#
Chloride	56.7	mg/L	2.0	EPA 300.0	#
Nitrate-N	9.2	mg/L	1.0	EPA 300.0	#
pH	6.83	pH_Units		S4500HB-11	#
Specific Conductance	359	umhos/cm	5	SM2510B-2011	#
Sulfate	12.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	193	mg/L	25	SM2540C-15	#
Turbidity	1.2	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	11/03/2025 08:30
Lab Sample ID	3441550001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.09		pH_Units		Field	1	11/03/2025 08:30	E2P	P
Specific Conductance, Field	323		umhos/cm	1	Field	1	11/03/2025 08:30	E2P	P
Temperature	15.10		Deg. C		Field	1	11/03/2025 08:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.7	3	mg/L	0.10	EPA 200.7	1	11/14/2025 15:25	RBP	F
Calcium, Total	14.4		mg/L	0.050	EPA 200.7	1	11/12/2025 11:37	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/13/2025 11:39	RBP	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/12/2025 11:37	RBP	D1
Magnesium, Dissolved	8.9		mg/L	0.10	EPA 200.7	1	11/13/2025 11:39	RBP	F
Magnesium, Total	8.9		mg/L	0.050	EPA 200.7	1	11/12/2025 11:37	RBP	D1
Manganese, Dissolved	0.15		mg/L	0.0050	EPA 200.7	1	11/13/2025 11:39	RBP	F
Manganese, Total	0.15		mg/L	0.0025	EPA 200.7	1	11/12/2025 11:37	RBP	D1
Potassium, Dissolved	3.7		mg/L	0.50	EPA 200.7	1	11/13/2025 11:39	RBP	F
Potassium, Total	3.4		mg/L	0.25	EPA 200.7	1	11/12/2025 11:37	RBP	D1
Sodium, Dissolved	27.8		mg/L	0.50	EPA 200.7	1	11/13/2025 11:39	RBP	F
Sodium, Total	27.6		mg/L	0.25	EPA 200.7	1	11/12/2025 11:37	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/12/2025 15:32	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	96.8%	70 – 130	11/12/2025 15:32	

WET CHEMISTRY

Results

Client Sample ID	3076 River Road, Conestoga, PA	Collected	11/03/2025 08:30
Lab Sample ID	3441550001	Lab Receipt	11/03/2025 11:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	7		mg/L	5	SM2320B-2011	1	11/06/2025 18:55	JXK	A
Alkalinity, Total	7	1	mg/L	5	SM2320B-2011	1	11/06/2025 18:55	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 12:03	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/05/2025 12:33	KMS	C
Chloride	56.7		mg/L	2.0	EPA 300.0	2	11/04/2025 12:27	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 12:27	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/06/2025 16:47	PAG	K
Nitrate-N	9.2		mg/L	1.0	EPA 300.0	2	11/04/2025 12:27	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/04/2025 12:27	J1W	A
pH	6.83	2	pH_Units		S4500HB-11	1	11/06/2025 18:55	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 14:54	ZEB	J
Specific Conductance	359		umhos/cm	5	SM2510B-2011	1	11/18/2025 08:50	MYM	A
Sulfate	12.0		mg/L	2.0	EPA 300.0	2	11/04/2025 12:27	J1W	A
Total Dissolved Solids	193		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	1.2		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441550001	3076 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441550001	3076 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486378
		EPA TRMD	1485484	11/11/2025 08:38	RMH	EPA 200.7	1485825
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486092
		N/A	N/A	N/A		EPA 524.2	1485867
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1483447
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1485479
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484029

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

3441550
Logged By: SLS
PM: SJB

30 of

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

Client Name: LCSWMA Brian Sensenich

Address: 3076 River Rd, Conestoga PA 17516

Contact: Brian Sensenich
Phone#: 717-676-5779
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Biran Sensenich
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
	Enter Number of Containers Per Sample or Field Results Below.															
1	3076RIVERRD	11/3/25	08:30		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				23						
3										HCl 10-3-25						
4																
5																
6																
7																
8																
9																
10																

(completed by Receiving Lab)
Temp Taken By: Therm ID: 352 WO Temp (°C) 5

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP ID:

Comments: PH-509 SPC 323 temp 15.1

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441550

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date tkh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025-3079 RIVER RD
Workorder 3441860
Report ID 476802 on 11/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 05, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441860001	3079RIVERRD	Water	11/05/2025 10:00	11/05/2025 16:20	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.

Detected Results Summary

Client Sample ID	3079RIVERRD	Collected	11/05/2025 10:00
Lab Sample ID	3441860001	Lab Receipt	11/05/2025 16:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	5.00	mg/L	0.01	Field	#
Oxidation-Reduction Potential	265	mV		Field	#
pH, Field (SM4500B)	5.43	pH_Units		Field	#
Specific Conductance, Field	185	umhos/cm	1	Field	#
Temperature	17.10	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.7	mg/L	0.10	EPA 200.7	#
Calcium, Total	9.8	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	5.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	5.6	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.019	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.018	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.8	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.8	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	14.1	mg/L	0.50	EPA 200.7	#
Sodium, Total	13.6	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	20	mg/L	5	SM2320B-2011	#
Alkalinity, Total	20	mg/L	5	SM2320B-2011	#
Chloride	28.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	2.1	mg/L	1.0	EPA 300.0	#
pH	7.31	pH_Units		S4500HB-11	#
Specific Conductance	180	umhos/cm	5	SM2510B-2011	#
Sulfate	9.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	159	mg/L	25	SM2540C-15	#
Turbidity	0.95	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3079RIVERRD	Collected	11/05/2025 10:00
Lab Sample ID	3441860001	Lab Receipt	11/05/2025 16:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	5.00		mg/L	0.01	Field	1	11/05/2025 10:00	E2P	P
Oxidation-Reduction Potential	265		mV		Field	1	11/05/2025 10:00	E2P	P
pH, Field (SM4500B)	5.43		pH_Units		Field	1	11/05/2025 10:00	E2P	P
Specific Conductance, Field	185		umhos/cm	1	Field	1	11/05/2025 10:00	E2P	P
Temperature	17.10		Deg. C		Field	1	11/05/2025 10:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.7		mg/L	0.10	EPA 200.7	1	11/14/2025 15:32	RBP	F
Calcium, Total	9.8		mg/L	0.050	EPA 200.7	1	11/17/2025 10:48	RBP	D
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/13/2025 12:04	RBP	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/17/2025 10:48	RBP	D
Magnesium, Dissolved	5.8		mg/L	0.10	EPA 200.7	1	11/13/2025 12:04	RBP	F
Magnesium, Total	5.6		mg/L	0.050	EPA 200.7	1	11/17/2025 10:48	RBP	D
Manganese, Dissolved	0.019		mg/L	0.0050	EPA 200.7	1	11/13/2025 12:04	RBP	F
Manganese, Total	0.018		mg/L	0.0025	EPA 200.7	1	11/17/2025 10:48	RBP	D
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	1	11/13/2025 12:04	RBP	F
Potassium, Total	1.8		mg/L	0.25	EPA 200.7	1	11/17/2025 10:48	RBP	D
Sodium, Dissolved	14.1		mg/L	0.50	EPA 200.7	1	11/13/2025 12:04	RBP	F
Sodium, Total	13.6		mg/L	0.25	EPA 200.7	1	11/17/2025 10:48	RBP	D

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 02:06	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	82.2%	70 – 130	11/17/2025 02:06	

Results

Client Sample ID	3079RIVERRD	Collected	11/05/2025 10:00
Lab Sample ID	3441860001	Lab Receipt	11/05/2025 16:20

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	20		mg/L	5	SM2320B-2011	1	11/08/2025 03:27	JXK	A
Alkalinity, Total	20	1	mg/L	5	SM2320B-2011	1	11/08/2025 03:27	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/10/2025 16:51	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/10/2025 11:00	KMS	C
Chloride	28.3		mg/L	2.0	EPA 300.0	2	11/06/2025 12:14	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/06/2025 12:14	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/13/2025 16:20	PAG	K
Nitrate-N	2.1		mg/L	1.0	EPA 300.0	2	11/06/2025 12:14	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/06/2025 12:14	J1W	A
pH	7.31	2	pH_Units		S4500HB-11	1	11/08/2025 03:27	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/11/2025 10:14	ZEB	J
Specific Conductance	180		umhos/cm	5	SM2510B-2011	1	11/18/2025 08:50	MYM	A
Sulfate	9.1		mg/L	2.0	EPA 300.0	2	11/06/2025 12:14	J1W	A
Total Dissolved Solids	159		mg/L	25	SM2540C-15	1	11/06/2025 15:25	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/06/2025 19:28	PAG	H
Turbidity	0.95		NTU	0.30	SM2130B-2011	1	11/05/2025 09:05	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441860001	3079RIVERRD	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441860001	3079RIVERRD	N/A	N/A	N/A		Field	
		EPA TRMD	1486289	11/14/2025 08:51	RMH	EPA 200.7	1487074
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486092
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486378
		N/A	N/A	N/A		EPA 524.2	1486573
		N/A	N/A	N/A		EPA 300.0	1483988
		N/A	N/A	N/A		EPA 410.4	1484143
		SW846 9066	1484086	11/07/2025 13:38	ZEB	EPA 420.4	1484318
		N/A	N/A	N/A		S4500HB-11	1484330
		N/A	N/A	N/A		SM 4500-NH3G	1484111
		N/A	N/A	N/A		SM2130B-2011	1484033
		N/A	N/A	N/A		SM2320B-2011	1484330
		N/A	N/A	N/A		SM2510B-2011	1485479
		N/A	N/A	N/A		SM2540C-15	1484057
		N/A	N/A	N/A		SM5310B-14	1484091
		N/A	N/A	N/A		SW846 9020B	1486036

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441860
Logged By: SLS
PM: SJB

760 of

(Lab Use Only) by Receiving Lab)
G4A WO Temp (°C) 4

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster Pa 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: **Approved?**
Email? [ ]

	Container Type	Container Size	Preservative
A	AG	40ml	HCL
B	AN	250ml	H2SO4
C	AN	125ml	H2SO4
D	CG	40ml	ASCHCL
E			
F	P	250ml	H2SO4
G	P	125ml	HNO3
H	P	125ml	HNO3
I	P	1L	UNP
J		500ml	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
	Enter Number of Containers Per Sample or Field Results Below.															
1	3079RIVERRD	11/5/25	10:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/5/25	NA		G	Di				3						
3	Field Blank	11/5/25	1000							3 HCh						
4		HCh	11/5/25							11/5/25						
5																
6																
7																
8																
9																
10																

*Receipt Info completed by:*_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments: PH. 5.43 Spc 185 temp 17.1 DO. 500 orp 265

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-5-25	1620	1	ALS EP	2	Tahayat ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

right solutions. right partner.

Middletown Sample Condition Form

Client Lanc. City Solid Waste Workorder 3441860

Temp °C 4 Therm ID 649 Ice? (Y) N N/A Initials & Date HCh 11/5/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location				UC
•Date and time of sample collection		|		|
•Type(s) of preservation		|		|
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	|			
Proper containers, preservation, and volume per method	|			
Received within hold time	|			
Containers intact	|			
Trip blanks present (EPA 504, EPA 524)	|			
Field blanks present (Hg 1631, PFAS)	✓			
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			|	
OP Samples Filtered			|	
WV Containers 0-6°C			|	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For

Lancaster County Solid Waste Authority

Project 4TH QTR 2025-3088 RIVER RD
Workorder 3441556
Report ID 475879 on 11/17/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Jordan Bigler - Lancaster County Solid Waste Authority
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Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

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

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441556001	3088 River Road, Conestoga PA	Water	11/03/2025 09:00	11/03/2025 11:30	EMP	ALS Environmental-Middletown

Reference

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  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
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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
#	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.

Detected Results Summary

Client Sample ID	3088 River Road, Conestoga PA	Collected	11/03/2025 09:00
Lab Sample ID	3441556001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	0.87	mg/L	0.01	Field	#
pH, Field (SM4500B)	6.60	pH_Units		Field	#
Specific Conductance, Field	1396	umhos/cm	1	Field	#
Temperature	16.60	Deg. C		Field	#
METALS					
Calcium, Dissolved	0.38	mg/L	0.10	EPA 200.7	#
Calcium, Total	0.47	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	0.16	mg/L	0.10	EPA 200.7	#
Magnesium, Total	0.17	mg/L	0.050	EPA 200.7	#
Potassium, Dissolved	2.6	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.9	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	319	mg/L	0.50	EPA 200.7	#
Sodium, Total	293	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	221	mg/L	5	SM2320B-2011	#
Alkalinity, Total	221	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	19	mg/L	15	EPA 410.4	#
Chloride	497	mg/L	10.0	EPA 300.0	#
Nitrate-N	12.1	mg/L	2.5	EPA 300.0	#
pH	8.21	pH_Units		S4500HB-11	#
Specific Conductance	2090	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	1120	mg/L	25	SM2540C-15	#
Turbidity	0.65	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	11/03/2025 09:00
Lab Sample ID	3441556001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	0.87		mg/L	0.01	Field	1	11/03/2025 09:00	E2P	P
pH, Field (SM4500B)	6.60		pH_Units		Field	1	11/03/2025 09:00	E2P	P
Specific Conductance, Field	1396		umhos/cm	1	Field	1	11/03/2025 09:00	E2P	P
Temperature	16.60		Deg. C		Field	1	11/03/2025 09:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	0.38		mg/L	0.10	EPA 200.7	1	11/06/2025 17:07	MSY	F
Calcium, Total	0.47		mg/L	0.050	EPA 200.7	1	11/12/2025 14:25	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:07	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/12/2025 14:25	RBP	D1
Magnesium, Dissolved	0.16		mg/L	0.10	EPA 200.7	1	11/06/2025 17:07	MSY	F
Magnesium, Total	0.17		mg/L	0.050	EPA 200.7	1	11/12/2025 14:25	RBP	D1
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	11/06/2025 17:07	MSY	F
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	11/12/2025 14:25	RBP	D1
Potassium, Dissolved	2.6		mg/L	0.50	EPA 200.7	1	11/06/2025 17:07	MSY	F
Potassium, Total	3.9		mg/L	0.25	EPA 200.7	1	11/12/2025 14:25	RBP	D1
Sodium, Dissolved	319		mg/L	0.50	EPA 200.7	1	11/06/2025 17:07	MSY	F
Sodium, Total	293		mg/L	0.25	EPA 200.7	1	11/12/2025 14:25	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 13:45	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.1%	70 – 130	11/13/2025 13:45	

Results

Client Sample ID	3088 River Road, Conestoga PA	Collected	11/03/2025 09:00
Lab Sample ID	3441556001	Lab Receipt	11/03/2025 11:30

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	221		mg/L	5	SM2320B-2011	1	11/06/2025 19:49	JXK	A
Alkalinity, Total	221	1	mg/L	5	SM2320B-2011	1	11/06/2025 19:49	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 14:03	AYS	C
Chemical Oxygen Demand (COD)	19		mg/L	15	EPA 410.4	1	11/06/2025 10:55	KMS	C
Chloride	497		mg/L	10.0	EPA 300.0	10	11/05/2025 23:25	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	11/04/2025 13:42	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/12/2025 17:21	PAG	K
Nitrate-N	12.1		mg/L	2.5	EPA 300.0	5	11/04/2025 13:42	J1W	A
Nitrite-N	ND	ND	mg/L	2.5	EPA 300.0	5	11/04/2025 13:42	J1W	A
pH	8.21	2	pH_Units		S4500HB-11	1	11/06/2025 19:49	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 14:30	ZEB	J
Specific Conductance	2090		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	ND	ND	mg/L	5.0	EPA 300.0	5	11/04/2025 13:42	J1W	A
Total Dissolved Solids	1120		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	0.65		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441556001	3088 River Road, Conestoga PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441556001	3088 River Road, Conestoga PA	N/A	N/A	N/A		Field	
		EPA TRMD	1485574	11/11/2025 15:53	AAJ	EPA 200.7	1485886
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483534
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1484011
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484260

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441556
Logged By: SLS
PM: SJB

of

Client Name: LCSWMA Hans Weber and Deb Kalbach

Address: 3088 River Rd
Conestoga Pa 17516

Contact: Hans Weber and Deb Kalbach
Phone#: 717-419-7982
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Hans Weber and Deb Kalbach
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP
	Orthophosphate Filtered?		Yes	No	Hexavalent Chromium Filtered?					Yes	No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3088RIVERRD	11/3/25	09:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				3						
3										HCl						
4										11/3/25						
5																
6																
7																
8																
9																
10																

Receipt Info completed by:_____ (Receiving Lab)
WO Temp (°C) 5

WV Containers 0-6°C	Y	N	NA
Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, list below

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing **YES** **NO**

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP **ID:**

Comments: PH-6.60 SPC-1396 temp 16.6 DO 0.87

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	AIS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client ICSWMA Workorder 344552

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date fkh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For

Lancaster County Solid Waste Authority

Project 4TH QTR-2025 3100 RIVER RD
Workorder 3442139
Report ID 476859 on 11/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 06, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3442139001	3100 River Road, Conestoga, PA	Water	11/06/2025 09:00	11/06/2025 16:40	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.

Detected Results Summary

Client Sample ID	3100 River Road, Conestoga, PA	Collected	11/06/2025 09:00
Lab Sample ID	3442139001	Lab Receipt	11/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	3.70	mg/L	0.01	Field	#
Oxidation-Reduction Potential	229	mV		Field	#
pH, Field (SM4500B)	4.90	pH_Units		Field	#
Specific Conductance, Field	151	umhos/cm	1	Field	#
Temperature	17.34	Deg. C		Field	#
METALS					
Calcium, Dissolved	12.7	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.4	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	7.0	mg/L	0.10	EPA 200.7	#
Magnesium, Total	6.4	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.011	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.010	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	1.5	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.5	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	19.4	mg/L	0.50	EPA 200.7	#
Sodium, Total	18.7	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	16	mg/L	5	SM2320B-2011	#
Alkalinity, Total	16	mg/L	5	SM2320B-2011	#
Chloride	46.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	3.8	mg/L	1.0	EPA 300.0	#
pH	7.29	pH_Units		S4500HB-11	#
Specific Conductance	232	umhos/cm	5	SM2510B-2011	#
Sulfate	5.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	167	mg/L	25	SM2540C-15	#
Turbidity	0.30	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	11/06/2025 09:00
Lab Sample ID	3442139001	Lab Receipt	11/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	3.70		mg/L	0.01	Field	1	11/06/2025 09:00	E2P	P
Oxidation-Reduction Potential	229		mV		Field	1	11/06/2025 09:00	E2P	P
pH, Field (SM4500B)	4.90		pH_Units		Field	1	11/06/2025 09:00	E2P	P
Specific Conductance, Field	151		umhos/cm	1	Field	1	11/06/2025 09:00	E2P	P
Temperature	17.34		Deg. C		Field	1	11/06/2025 09:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	12.7		mg/L	0.10	EPA 200.7	1	11/14/2025 15:34	RBP	F
Calcium, Total	11.4		mg/L	0.050	EPA 200.7	1	11/18/2025 14:20	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/13/2025 12:18	RBP	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/18/2025 14:20	RBP	D1
Magnesium, Dissolved	7.0		mg/L	0.10	EPA 200.7	1	11/13/2025 12:18	RBP	F
Magnesium, Total	6.4		mg/L	0.050	EPA 200.7	1	11/18/2025 14:20	RBP	D1
Manganese, Dissolved	0.011		mg/L	0.0050	EPA 200.7	1	11/13/2025 12:18	RBP	F
Manganese, Total	0.010		mg/L	0.0025	EPA 200.7	1	11/18/2025 14:20	RBP	D1
Potassium, Dissolved	1.5		mg/L	0.50	EPA 200.7	1	11/13/2025 12:18	RBP	F
Potassium, Total	1.5		mg/L	0.25	EPA 200.7	1	11/18/2025 14:20	RBP	D1
Sodium, Dissolved	19.4		mg/L	0.50	EPA 200.7	1	11/13/2025 12:18	RBP	F
Sodium, Total	18.7		mg/L	0.25	EPA 200.7	1	11/18/2025 14:20	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/17/2025 16:39	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	81.9%	70 – 130	11/17/2025 16:39	

Results

Client Sample ID	3100 River Road, Conestoga, PA	Collected	11/06/2025 09:00
Lab Sample ID	3442139001	Lab Receipt	11/06/2025 16:40

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	16		mg/L	5	SM2320B-2011	1	11/09/2025 09:53	MYM	A
Alkalinity, Total	16	1	mg/L	5	SM2320B-2011	1	11/09/2025 09:53	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/12/2025 12:22	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/11/2025 14:41	KMS	C
Chloride	46.1		mg/L	2.0	EPA 300.0	2	11/07/2025 09:41	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/07/2025 09:41	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/14/2025 14:43	PAG	K
Nitrate-N	3.8		mg/L	1.0	EPA 300.0	2	11/07/2025 09:41	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/07/2025 09:41	J1W	A
pH	7.29	2	pH_Units		S4500HB-11	1	11/09/2025 09:53	MYM	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/11/2025 11:03	ZEB	J
Specific Conductance	232		umhos/cm	5	SM2510B-2011	1	11/18/2025 08:50	MYM	A
Sulfate	5.6		mg/L	2.0	EPA 300.0	2	11/07/2025 09:41	J1W	A
Total Dissolved Solids	167		mg/L	25	SM2540C-15	1	11/11/2025 14:10	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/10/2025 22:17	PAG	H
Turbidity	0.30		NTU	0.30	SM2130B-2011	1	11/07/2025 08:13	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3442139001	3100 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3442139001	3100 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA TRMD	1488347	11/17/2025 16:35	RMH	EPA 200.7	1488541
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486092
		EPA ACID	1486067	11/13/2025 11:43	AAJ	EPA 200.7	1486378
		N/A	N/A	N/A		EPA 524.2	1487773
		N/A	N/A	N/A		EPA 300.0	1484222
		N/A	N/A	N/A		EPA 410.4	1485477
		SW846 9066	1484086	11/07/2025 13:38	ZEB	EPA 420.4	1484318
		N/A	N/A	N/A		S4500HB-11	1484657
		N/A	N/A	N/A		SM 4500-NH3G	1485490
		N/A	N/A	N/A		SM2130B-2011	1484223
		N/A	N/A	N/A		SM2320B-2011	1484657
		N/A	N/A	N/A		SM2510B-2011	1485479
		N/A	N/A	N/A		SM2540C-15	1485419
		N/A	N/A	N/A		SM5310B-14	1485384
		N/A	N/A	N/A		SW846 9020B	1486301

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3442139
Logged By: DXB
PM: SJB

of

ceiving Lab)

Temp Taken By: ..... WO Temp (°C) 3

Client Name: LCSWMA Landowner

Address: 3100 River Rd
Conestoga Pa 17516

Contact: Ann Kirchner
Phone#: 717-584-0030
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

Container Type	AG	AN	AN	CG		P	P	P	P	P
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3100RIVERRD	11/6/25	09:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/6/25	NA		G	Di				3						
3																
4																
5																
6																
7																
8																
9																
10																

tkh 11/6/25

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin?_____
PWSID #__

Rad Screen (uCi)_____
New Source? Y N
New Source Contact:

PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: Evan P **ID:**

Comments: PH-4.90 Spc-151 temp-17.34 DO-370 orp229

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-6-25	1640	1	ALS EP	2	Tahirah ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL [ ] oth

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.20

Middletown Sample Condition Form

Client LCSWMA Workorder 3442139

Temp °C 3 Therm ID 649 Ice? (Y) N N/A Initials & Date tkh 11/7/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) _____

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

11/20/2025 2:00 PM

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025-3106 RIVER RD
Workorder 3441557
Report ID 475881 on 11/17/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441557001	3106 River Road, Conestoga, PA	Water	11/03/2025 09:30	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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.

Detected Results Summary

Client Sample ID	3106 River Road, Conestoga, PA	Collected	11/03/2025 09:30
Lab Sample ID	3441557001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.44	pH_Units		Field	#
Specific Conductance, Field	553	umhos/cm	1	Field	#
Temperature	14.40	Deg. C		Field	#
METALS					
Calcium, Dissolved	24.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	25.2	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	16.7	mg/L	0.10	EPA 200.7	#
Magnesium, Total	16.9	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.042	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.045	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.0	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	48.4	mg/L	0.50	EPA 200.7	#
Sodium, Total	51.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	14	mg/L	5	SM2320B-2011	#
Alkalinity, Total	14	mg/L	5	SM2320B-2011	#
Chloride	137	mg/L	2.0	EPA 300.0	#
Nitrate-N	8.8	mg/L	1.0	EPA 300.0	#
pH	7.05	pH_Units		S4500HB-11	#
Specific Conductance	562	umhos/cm	5	SM2510B-2011	#
Sulfate	5.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	344	mg/L	25	SM2540C-15	#
Turbidity	0.75	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	11/03/2025 09:30
Lab Sample ID	3441557001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.44		pH_Units		Field	1	11/03/2025 09:30	E2P	P
Specific Conductance, Field	553		umhos/cm	1	Field	1	11/03/2025 09:30	E2P	P
Temperature	14.40		Deg. C		Field	1	11/03/2025 09:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	24.5		mg/L	0.10	EPA 200.7	1	11/06/2025 17:11	MSY	F
Calcium, Total	25.2		mg/L	0.050	EPA 200.7	1	11/12/2025 11:39	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:11	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/12/2025 11:39	RBP	D1
Magnesium, Dissolved	16.7		mg/L	0.10	EPA 200.7	1	11/06/2025 17:11	MSY	F
Magnesium, Total	16.9		mg/L	0.050	EPA 200.7	1	11/12/2025 11:39	RBP	D1
Manganese, Dissolved	0.042		mg/L	0.0050	EPA 200.7	1	11/06/2025 17:11	MSY	F
Manganese, Total	0.045		mg/L	0.0025	EPA 200.7	1	11/12/2025 11:39	RBP	D1
Potassium, Dissolved	2.0		mg/L	0.50	EPA 200.7	1	11/06/2025 17:11	MSY	F
Potassium, Total	2.4		mg/L	0.25	EPA 200.7	1	11/12/2025 11:39	RBP	D1
Sodium, Dissolved	48.4		mg/L	0.50	EPA 200.7	1	11/06/2025 17:11	MSY	F
Sodium, Total	51.9		mg/L	0.25	EPA 200.7	1	11/12/2025 11:39	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 14:54	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.9%	70 – 130	11/13/2025 14:54	

WET CHEMISTRY

Results

Client Sample ID	3106 River Road, Conestoga, PA	Collected	11/03/2025 09:30
Lab Sample ID	3441557001	Lab Receipt	11/03/2025 11:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	14		mg/L	5	SM2320B-2011	1	11/06/2025 20:03	JXK	A
Alkalinity, Total	14	1	mg/L	5	SM2320B-2011	1	11/06/2025 20:03	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 14:42	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/06/2025 10:55	KMS	C
Chloride	137		mg/L	2.0	EPA 300.0	2	11/04/2025 13:54	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 13:54	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/12/2025 17:21	PAG	K
Nitrate-N	8.8		mg/L	1.0	EPA 300.0	2	11/04/2025 13:54	J1W	A
Nitrite-N	ND	ND	mg/L	1.0	EPA 300.0	2	11/04/2025 13:54	J1W	A
pH	7.05	2	pH_Units		S4500HB-11	1	11/06/2025 20:03	JXK	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	11/05/2025 15:00	ZEB	J
Specific Conductance	562		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	5.3		mg/L	2.0	EPA 300.0	2	11/04/2025 13:54	J1W	A
Total Dissolved Solids	344		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	0.75		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441557001	3106 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA TRMD	
		EPA 200.7	EPA ACID	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441557001	3106 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA TRMD	1485484	11/11/2025 08:38	RMH	EPA 200.7	1485825
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1484011
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1483556
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484260

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441557
Logged By: SLS
PM: SJB

7 of

Client Name: LCSWMA Aaron Fry

Address: 3106 River Rd
Conestoga Pa 17516

Contact: Aaron Fry
Phone#: 717-669-6831
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA Aaron Fry
Purchase Order #:

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

Date Required: **Approved?**
Email? [ ]

	Container Type	AG	AN	AN	CG		P	P	P	P	P
	Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
	Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3106RIVERRD	11/3/25	09:30		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				2 3						
3										HCh 11/3/25						
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: 352 WO Temp (°C) 5 (Receiving Lab)

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA
NJ ≤ 4 days?	Y	N	

Courier/Tracking #

Deviations? NO YES
If YES, llist below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP **ID:**

Comments: PH-5.44 SpC 553 temp 14.4

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables
[ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs
[ ] Excel Summary
[ ] Equis
[ ] Custom

Sample Disposal
Lab [x]
Special [ ]

EDDS: Format Type

State Samples Collected In
[ ] NY
[ ] NJ
[x] PA
[ ] WV
[ ] FL
____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441557

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date kh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix				
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

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, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**

Project 4TH QTR 2025-3125 RIVER RD
Workorder 3441558
Report ID 480373 on 12/8/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 03, 2025.

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):
Jordan Bigler - Lancaster County Solid Waste Authority
Ashley Gichuki - Lancaster County Solid Waste Authority
Daniel Brown - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3441558001	3125 River Road, Conestoga, PA	Water	11/03/2025 10:00	11/03/2025 11:30	EMP	ALS Environmental-Middletown
3441558002	Trip Blank	Water	11/03/2025 00:00	11/03/2025 11:30	EMP	ALS Environmental-Middletown
3441558003	Field Blank	Water	11/03/2025 10:00	11/03/2025 11:30	EMP	ALS Environmental-Middletown

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, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- 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

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) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
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
#	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 QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrite-N. The % Recovery was reported as 132 and the control limits were 80 to 120.
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.
4	The QC sample type MS for method SW846 9066 was outside the control limits for the analyte Phenolics. The % Recovery was reported as 116 and the control limits were 90 to 110.

Detected Results Summary

Client Sample ID	3125 River Road, Conestoga, PA	Collected	11/03/2025 10:00
Lab Sample ID	3441558001	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	6.18	pH_Units		Field	#
Specific Conductance, Field	504	umhos/cm	1	Field	#
Temperature	15.90	Deg. C		Field	#
METALS					
Calcium, Total	0.088	mg/L	0.050	EPA 200.7	#
Potassium, Dissolved	0.63	mg/L	0.50	EPA 200.7	#
Potassium, Total	0.81	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	108	mg/L	0.50	EPA 200.7	#
Sodium, Total	107	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	93	mg/L	5	SM2320B-2011	#
Alkalinity, Total	93	mg/L	5	SM2320B-2011	#
Chloride	96.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.7	mg/L	1.0	EPA 300.0	#
pH	7.91	pH_Units		S4500HB-11	#
Specific Conductance	539	umhos/cm	5	SM2510B-2011	#
Sulfate	12.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	300	mg/L	25	SM2540C-15	#
Turbidity	0.70	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	Field Blank	Collected	11/03/2025 10:00
Lab Sample ID	3441558003	Lab Receipt	11/03/2025 11:30

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methylene Chloride	0.79	ug/L	0.50	EPA 524.2	#

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	11/03/2025 10:00
Lab Sample ID	3441558001	Lab Receipt	11/03/2025 11:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	6.18		pH_Units		Field	1	11/03/2025 10:00	E2P	P
Specific Conductance, Field	504		umhos/cm	1	Field	1	11/03/2025 10:00	E2P	P
Temperature	15.90		Deg. C		Field	1	11/03/2025 10:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	ND	ND	mg/L	0.10	EPA 200.7	1	11/06/2025 17:13	MSY	F
Calcium, Total	0.088		mg/L	0.050	EPA 200.7	1	11/07/2025 10:19	RBP	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	11/06/2025 17:13	MSY	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	11/07/2025 10:19	RBP	D1
Magnesium, Dissolved	ND	ND	mg/L	0.10	EPA 200.7	1	11/06/2025 17:13	MSY	F
Magnesium, Total	ND	ND	mg/L	0.050	EPA 200.7	1	11/07/2025 10:19	RBP	D1
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	11/06/2025 17:13	MSY	F
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	11/07/2025 10:19	RBP	D1
Potassium, Dissolved	0.63		mg/L	0.50	EPA 200.7	1	11/06/2025 17:13	MSY	F
Potassium, Total	0.81		mg/L	0.25	EPA 200.7	1	11/07/2025 10:19	RBP	D1
Sodium, Dissolved	108		mg/L	0.50	EPA 200.7	1	11/06/2025 17:13	MSY	F
Sodium, Total	107		mg/L	0.25	EPA 200.7	1	11/07/2025 10:19	RBP	D1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 15:17	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.2%	70 – 130	11/13/2025 15:17	

WET CHEMISTRY

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	11/03/2025 10:00
Lab Sample ID	3441558001	Lab Receipt	11/03/2025 11:30

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	93		mg/L	5	SM2320B-2011	1	11/08/2025 01:06	JXK	A
Alkalinity, Total	93	1	mg/L	5	SM2320B-2011	1	11/08/2025 01:06	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	11/05/2025 14:39	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	11/06/2025 10:55	KMS	C
Chloride	96.9		mg/L	2.0	EPA 300.0	2	11/04/2025 14:06	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	11/04/2025 14:06	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	11/12/2025 17:21	PAG	K
Nitrate-N	4.7		mg/L	1.0	EPA 300.0	2	11/04/2025 14:06	J1W	A
Nitrite-N	ND	ND,2	mg/L	1.0	EPA 300.0	2	11/04/2025 14:06	J1W	A
pH	7.91	3	pH_Units		S4500HB-11	1	11/06/2025 20:55	JXK	A
Phenolics	ND	ND,4	mg/L	0.005	EPA 420.4	1	11/05/2025 15:07	ZEB	J
Specific Conductance	539		umhos/cm	5	SM2510B-2011	1	11/04/2025 11:30	MJO	A
Sulfate	12.9		mg/L	2.0	EPA 300.0	2	11/04/2025 14:06	J1W	A
Total Dissolved Solids	300		mg/L	25	SM2540C-15	1	11/05/2025 17:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	11/04/2025 18:37	PAG	H
Turbidity	0.70		NTU	0.30	SM2130B-2011	1	11/04/2025 08:30	NPF	A

Results

Client Sample ID	Trip Blank	Collected	11/03/2025 00:00
Lab Sample ID	3441558002	Lab Receipt	11/03/2025 11:30

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 11:51	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93%	70 – 130	11/13/2025 11:51	

Results

Client Sample ID	Field Blank	Collected	11/03/2025 10:00
Lab Sample ID	3441558003	Lab Receipt	11/03/2025 11:30

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Methylene Chloride	0.79		ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	11/13/2025 12:14	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.1%	70 – 130	11/13/2025 12:14	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3441558001	3125 River Road, Conestoga, PA	Field	N/A	
		EPA 200.7	EPA ACID	
		EPA 200.7	EPA TRMD	
		EPA 524.2	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		EPA 420.4	SW846 9066	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3441558002	Trip Blank	EPA 524.2	N/A	
3441558003	Field Blank	EPA 524.2	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3441558001	3125 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA ACID	1484078	11/06/2025 14:46	MSY	EPA 200.7	1484156
		EPA TRMD	1484014	11/06/2025 08:30	RMH	EPA 200.7	1484238
		N/A	N/A	N/A		EPA 524.2	1486021
		N/A	N/A	N/A		EPA 300.0	1483180
		N/A	N/A	N/A		EPA 410.4	1484011
		SW846 9066	1483378	11/04/2025 12:09	ZEB	EPA 420.4	1483402
		N/A	N/A	N/A		S4500HB-11	1483556
		N/A	N/A	N/A		SM 4500-NH3G	1483542
		N/A	N/A	N/A		SM2130B-2011	1483186
		N/A	N/A	N/A		SM2320B-2011	1484330
		N/A	N/A	N/A		SM2510B-2011	1483296
		N/A	N/A	N/A		SM2540C-15	1483572
		N/A	N/A	N/A		SM5310B-14	1483396
		N/A	N/A	N/A		SW846 9020B	1484260
3441558002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1486021
3441558003	Field Blank	N/A	N/A	N/A		EPA 524.2	1486021

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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

3441558
Logged By: SLS
PM: SJB

358 of

(Completed by Receiving Lab)
J: 352 WO Temp (°C) 5

Client Name: LCSWMA Christian C. Beck

Address: 3125 River Rd
Conestoga Pa 17516

Contact: Christian C Beck
Phone#: 717-871-0448
Project Name/#: LCSWMA Quarterly
Bill To: LCSWMA
Purchase Order #:

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

Container Type	AG	AN	AN	CG		P	P	P	P	
Container Size	40ml	250ml	125ml	40ml		250ml	125ml	125ml	1L	500ml
Preservative	HCL	H2SO4	H2SO4	ASCHCL		H2SO4	HNO3	HNO3	UNP	UNP

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	TOC	TOX	O-OH	EPA 524.2 Form 52	FM	NH3-N, COD	Dissolved Metals Ca,Fe,Mg,Mn, K,Na	Metals Ca,Fe,Mg,Mn,K,Na	pH,TDS,NO2,NO3,Cl,SO4,F, SpC,Tb	Alkalinity, HCO3
							Enter Number of Containers Per Sample or Field Results Below.									
1	3125RIVERRD	11/3/25	10:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	11/3/25	NA		G	Di				#3						
3	Field Blank	11/3/25	10:00		G	Di				#3 HCl 11/3/25						
4																
5																
6																
7																
8																
9																
10																

Receipt Info completed by:_____ WV Containers 0-6°C Y N NA
Cooler Custody Seals Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Coolers & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
VOA only: Trip Blank Y N NA
NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #__
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: EP ID:

Comments: PH-6.18 Spc 504 temp 15.9

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11-3-25	1130	1	ALS EP	2	ALS
		3		4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA
[ ] Standard Lvl 2 [ ] DOD [ ] Landfill
[ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW
[ ] Standard Lvl 4 [ ] NJ Full [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [x] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] WV [ ] FL ____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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

Rev 07.06.2023

Middletown Sample Condition Form

Client LCSWMA Workorder 3441558

Temp °C 5 Therm ID 352 Ice? (Y) N N/A Initials & Date tkh 11/3/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab	✓			
•Matrix				
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)				
Field blanks present (Hg 1631, PFAS)	✓			
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) —

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing information

Review Comments:

_____

_____

_____

12/8/2025 3:46 PM