2540-FM-BWM0060 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
07/07/2026
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) 05/05/2026 Sample Collection Time: 8:10 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: 05/14/2026

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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	13	SM20-2321
CALCIUM, TOTAL	15.8	EPA 200.7
CALCIUM, DISSOLVED	15.9	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	18.5	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	10.2	EPA 200.7
MAGNESIUM, DISSOLVED	10.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	6.6	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	6.7	EPA 200.7
NITRATE-NITROGEN	17	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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.35	FIELD
pH-LAB (SU)	7.36	SM4500B
POTASSIUM, TOTAL	2.2	EPA 200.7
POTASSIUM, DISSOLVED	2.3	EPA 200.7
SODIUM, TOTAL	9	EPA 200.7
SODIUM, DISSOLVED	9.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	256	FIELD
SPEC. COND., LAB (umhos/cm)	236	EPA 120.1
SULFATE	0.78	EPA 300
ALKALINITY	13	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	158	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 LCSWMA

Sample Date: 05/05/2026

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
07/07/2026
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: 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) 05/05/2026 Sample Collection Time: 8:35 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 05/14/2026

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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5	SM20-2321
CALCIUM, TOTAL	15.5	EPA 200.7
CALCIUM, DISSOLVED	15.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	19.3	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	8.8	EPA 200.7
MAGNESIUM, DISSOLVED	9.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	27	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	32	EPA 200.7
NITRATE-NITROGEN	16.1	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 MILLER

Sample Date: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.08	FIELD
pH-LAB (SU)	7.1	SM4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	7.9	EPA 200.7
SODIUM, DISSOLVED	8.2	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	231	FIELD
SPEC. COND., LAB (umhos/cm)	224	EPA 120.1
SULFATE	2	EPA 300
ALKALINITY	5	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)	0.5	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: 05/05/2026

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
07/07/2026
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: 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) 05/05/2026 Sample Collection Time: 8:50 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 05/15/2026

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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	10.7	EPA 200.7
CALCIUM, DISSOLVED	11.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	22.2	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	11.3	EPA 200.7
MAGNESIUM, DISSOLVED	11.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	68	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	70	EPA 200.7
NITRATE-NITROGEN	16.3	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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	4.76	FIELD
pH-LAB (SU)	6.73	SM4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	2.3	EPA 200.7
SODIUM, TOTAL	8.5	EPA 200.7
SODIUM, DISSOLVED	9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	246	FIELD
SPEC. COND., LAB (umhos/cm)	226	EPA 120.1
SULFATE	0.5 ND	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	139	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.99	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.3 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS LCSWMA

Sample Date: 05/05/2026

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
07/07/2026
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) 05/21/2026 Sample Collection Time: 10:30 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: 06/03/2026

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: 05/21/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	5 ND	SM20-2321
CALCIUM, TOTAL	10.1	EPA 200.7
CALCIUM, DISSOLVED	10.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	17.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	32	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.6	EPA 200.7
MAGNESIUM, DISSOLVED	10.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	95	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	99	EPA 200.7
NITRATE-NITROGEN	14.7	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 LCSWMA

Sample Date: 05/21/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.87	FIELD
pH-LAB (SU)	6.83	SM4500B
POTASSIUM, TOTAL	2.6	EPA 200.7
POTASSIUM, DISSOLVED	2.6	EPA 200.7
SODIUM, TOTAL	8.8	EPA 200.7
SODIUM, DISSOLVED	9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	227	FIELD
SPEC. COND., LAB (umhos/cm)	281	EPA 120.1
SULFATE	7.8	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	134	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.9	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: 05/21/2026

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
07/07/2026
DEP USE ONLY
Date Received

FORM 52
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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) 05/07/2026 Sample Collection Time: 9:45 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: 05/21/2026

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: 05/07/2026

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	EPA 200.7
CALCIUM, DISSOLVED	13.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	55.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	57	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.1	EPA 200.7
MAGNESIUM, DISSOLVED	8.4	EPA 200.7
MANGANESE, TOTAL (ug/l)	130	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	130	EPA 200.7
NITRATE-NITROGEN	8.4	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 SENSENICH

Sample Date: 05/07/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	4.95	FIELD
pH-LAB (SU)	6.18	SM4500B
POTASSIUM, TOTAL	3.1	EPA 200.7
POTASSIUM, DISSOLVED	3.2	EPA 200.7
SODIUM, TOTAL	25	EPA 200.7
SODIUM, DISSOLVED	26.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	301	FIELD
SPEC. COND., LAB (umhos/cm)	298	EPA 120.1
SULFATE	10.2	EPA 300
ALKALINITY	8	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)	0.9	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: 05/07/2026

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
07/07/2026
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) 05/07/2026 Sample Collection Time: 11:35 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: 05/21/2026

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: 05/07/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	24	SM20-2321
CALCIUM, TOTAL	11.4	EPA 200.7
CALCIUM, DISSOLVED	11.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	29	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	5.7	EPA 200.7
MAGNESIUM, DISSOLVED	5.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	20	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	21	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: 05/07/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.12	EPA 300
pH-FIELD (SU)	5.49	FIELD
pH-LAB (SU)	6.64	SM4500B
POTASSIUM, TOTAL	1.9	EPA 200.7
POTASSIUM, DISSOLVED	2.1	EPA 200.7
SODIUM, TOTAL	13.2	EPA 200.7
SODIUM, DISSOLVED	14	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	185	FIELD
SPEC. COND., LAB (umhos/cm)	185	EPA 120.1
SULFATE	8.2	EPA 300
ALKALINITY	24	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	120	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.8	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: 05/07/2026

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
07/07/2026
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: 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) 05/07/2026 Sample Collection Time: 10:30 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: 05/21/2026

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: 05/07/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.19	SM4500D
BICARBONATE ALKALINITY	199	SM20-2321
CALCIUM, TOTAL	0.13	EPA 200.7
CALCIUM, DISSOLVED	0.11	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	167	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	7.2	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 WEBER

Sample Date: 05/07/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	6.66	FIELD
pH-LAB (SU)	7.73	SM4500B
POTASSIUM, TOTAL	1.2	EPA 200.7
POTASSIUM, DISSOLVED	1.2	EPA 200.7
SODIUM, TOTAL	189	EPA 200.7
SODIUM, DISSOLVED	215	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	940	FIELD
SPEC. COND., LAB (umhos/cm)	997	EPA 120.1
SULFATE	0.5 ND	EPA 300
ALKALINITY	199	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	608	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 WEBER

Sample Date: 05/07/2026

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
07/07/2026
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: 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) 05/06/2026 Sample Collection Time: 9:40 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 05/18/2026

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: 05/06/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	13	SM20-2321
CALCIUM, TOTAL	12.2	EPA 200.7
CALCIUM, DISSOLVED	12.3	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	48.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	6.8	EPA 200.7
MAGNESIUM, DISSOLVED	7	EPA 200.7
MANGANESE, TOTAL (ug/l)	12	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	11	EPA 200.7
NITRATE-NITROGEN	4.3	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 KIRCHNER

Sample Date: 05/06/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.33	FIELD
pH-LAB (SU)	7.03	SM4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.8	EPA 200.7
SODIUM, TOTAL	18.8	EPA 200.7
SODIUM, DISSOLVED	19.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	219	FIELD
SPEC. COND., LAB (umhos/cm)	235	EPA 120.1
SULFATE	4.2	EPA 300
ALKALINITY	13	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	157	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 KIRCHNER

Sample Date: 05/06/2026

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
07/07/2026
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) 05/06/2026 Sample Collection Time: 3:00 PM

Laboratory(ies) Performing Analysis ALS Environmental

(include address and phone number) 301 Fulling Mill Road

Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 05/16/2026

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: 05/06/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	11	SM20-2321
CALCIUM, TOTAL	23.9	EPA 200.7
CALCIUM, DISSOLVED	23.5	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	134	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	16.3	EPA 200.7
MAGNESIUM, DISSOLVED	16.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	43	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	44	EPA 200.7
NITRATE-NITROGEN	8.6	EPA 300

T Please indicate detection limit if analyte is not detected.

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

Facility I.D. Number: 101389

Monitoring Point I.D. No.: PS FRY

Sample Date: 05/06/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	5.39	FIELD
pH-LAB (SU)	6.86	SM4500B
POTASSIUM, TOTAL	2.4	EPA 200.7
POTASSIUM, DISSOLVED	2.4	EPA 200.7
SODIUM, TOTAL	51.7	EPA 200.7
SODIUM, DISSOLVED	52.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	556	FIELD
SPEC. COND., LAB (umhos/cm)	572	EPA 120.1
SULFATE	4.6	EPA 300
ALKALINITY	11	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	380	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.59	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	1.1	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 FRY

Sample Date: 05/06/2026

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
07/07/2026
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) 05/05/2026 Sample Collection Time: 12:00 PM

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: 05/15/2026

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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM4500D
BICARBONATE ALKALINITY	48	SM20-2321
CALCIUM, TOTAL	0.11	EPA 200.7
CALCIUM, DISSOLVED	0.1 ND	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.2
CHLORIDE	93.2	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	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	5	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: 05/05/2026

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE - NITROGEN	0.05 ND	EPA 300
pH-FIELD (SU)	7.18	FIELD
pH-LAB (SU)	8.59	SM4500B
POTASSIUM, TOTAL	0.65	EPA 200.7
POTASSIUM, DISSOLVED	0.74	EPA 200.7
SODIUM, TOTAL	153	EPA 200.7
SODIUM, DISSOLVED	160	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	713	FIELD
SPEC. COND., LAB (umhos/cm)	748	EPA 120.1
SULFATE	12.5	EPA 300
ALKALINITY	212	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	436	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5	SM20-5310B
TOTAL PHENOLICS (ug/l)	5 ND	EPA 420.4
TURBIDITY (NTU)	0.35	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: 05/05/2026

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 LCSWMA Quarterly
Workorder 3457427
Report ID 511577 on 5/15/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 05, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457427001	3044 River Road, Conestoga, PA	Water	05/05/2026 08:10	05/05/2026 15:20	C	
3457427002	Trip Blank	Water	05/05/2026 00:00	05/05/2026 15:20	C	

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 STDL for method SM2320B-21 was outside the control limits for the analyte Alkalinity, Total. The % Recovery was reported as 86.1 and the control limits were 90 to 110.
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	3044 River Road, Conestoga, PA	Collected	05/05/2026 08:10
Lab Sample ID	3457427001	Lab Receipt	05/05/2026 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.35	pH_Units		Field	#
Specific Conductance, Field	256	umhos/cm	1	Field	#
Temperature	13.50	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.9	mg/L	0.10	EPA 200.7	#
Calcium, Total	15.8	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	10.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.2	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.0067	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.0066	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.3	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.2	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	9.5	mg/L	0.50	EPA 200.7	#
Sodium, Total	9.0	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	13	mg/L	5	SM2320B-21	#
Alkalinity, Total	13	mg/L	5	SM2320B-21	#
Chloride	18.5	mg/L	0.50	EPA 300.0	#
Nitrate-N	17.0	mg/L	0.050	EPA 300.0	#
pH	7.36	pH_Units		SM4500HB-21	#
Specific Conductance	236	umhos/cm	5	SM2510B-21	#
Sulfate	0.78	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	158	mg/L	25	SM2540C-20	#
Turbidity	0.30	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	05/05/2026 08:10
Lab Sample ID	3457427001	Lab Receipt	05/05/2026 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.35		pH_Units		Field	1	05/05/2026 08:10	E2P	O
Specific Conductance, Field	256		umhos/cm	1	Field	1	05/05/2026 08:10	E2P	O
Temperature	13.50		Deg. C		Field	1	05/05/2026 08:10	E2P	O

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.9		mg/L	0.10	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Calcium, Total	15.8		mg/L	0.050	EPA 200.7	1	05/14/2026 14:04	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/14/2026 14:04	AAJ	D1
Magnesium, Dissolved	10.4		mg/L	0.10	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Magnesium, Total	10.2		mg/L	0.050	EPA 200.7	1	05/14/2026 14:04	AAJ	D1
Manganese, Dissolved	0.0067		mg/L	0.0050	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Manganese, Total	0.0066		mg/L	0.0025	EPA 200.7	1	05/14/2026 14:04	AAJ	D1
Potassium, Dissolved	2.3		mg/L	0.50	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Potassium, Total	2.2		mg/L	0.25	EPA 200.7	1	05/14/2026 14:04	AAJ	D1
Sodium, Dissolved	9.5		mg/L	0.50	EPA 200.7	1	05/13/2026 12:38	AAJ	F
Sodium, Total	9.0		mg/L	0.25	EPA 200.7	1	05/14/2026 14:04	AAJ	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	05/06/2026 18:54	TMP	L
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:54	TMP	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	100%	70 – 130	05/06/2026 18:54	

WET CHEMISTRY

Results

Client Sample ID	3044 River Road, Conestoga, PA	Collected	05/05/2026 08:10
Lab Sample ID	3457427001	Lab Receipt	05/05/2026 15:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	13		mg/L	5	SM2320B-21	1	05/07/2026 13:22	TJH	A
Alkalinity, Total	13	1,2	mg/L	5	SM2320B-21	1	05/07/2026 13:22	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/07/2026 16:18	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	18.5		mg/L	0.50	EPA 300.0	2	05/06/2026 19:00	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2026 19:00	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/12/2026 17:19	PAG	K
Nitrate-N	17.0		mg/L	0.050	EPA 300.0	2	05/06/2026 19:00	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/06/2026 19:00	J1W	A
pH	7.36	3	pH_Units		SM4500HB-21	1	05/07/2026 13:22	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 14:43	A1L	J
Specific Conductance	236		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	0.78		mg/L	0.50	EPA 300.0	2	05/06/2026 19:00	J1W	A
Total Dissolved Solids	158		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/07/2026 20:49	PAG	H
Turbidity	0.30		NTU	0.30	SM2130B-20	1	05/06/2026 09:15	AOO	A

Results

Client Sample ID	Trip Blank	Collected	05/05/2026 00:00
Lab Sample ID	3457427002	Lab Receipt	05/05/2026 15:20

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	05/06/2026 16:59	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 16:59	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	97.4%	70 – 130	05/06/2026 16:59	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457427001	3044 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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457427002	Trip 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
3457427001	3044 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1546184	05/13/2026 17:35	RMH	EPA 200.7	1546246
		N/A	N/A	N/A		EPA 524.2	1544192
		N/A	N/A	N/A		EPA 300.0	1544002
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1544005
		N/A	N/A	N/A		SM2130B-20	1544003
		N/A	N/A	N/A		SM2320B-21	1544143
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1544143
		N/A	N/A	N/A		SM5310B-14	1544818
		N/A	N/A	N/A		SW846 9020B	1545888
3457427002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1544192

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.

CO 3457427
AL
Logged By: DXB
PM: SIW
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	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	5/5/26	08:10		G	DW	2	2	1	3	1	1	2	2	1	
2	Trip Blank	5/5/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Nana Therm ID: 041 WO Temp (°C) 12°

*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: EP **ID:**

Comments: PH-5.35 SPC-256 TEMP-13.5

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/5/2026	1530		ALS EP	2	Nana ALS 5.5.26 15:20
		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 Lancaster County Solid Waste MA Workorder 3457427

Temp °C 12° Therm ID 649 Ice? (Y) N N/A Initials & Date Nana 5.5.26

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.*	—	[illegible]		
COC/bottle labels complete & in agreement				
•Sample location				
•Date and time of sample collection				
•Type(s) of preservation				
•Number of containers				
•Composite or grab				
•Matrix	SW			
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 LCSWMA Quarterly
Workorder 3457428
Report ID 511580 on 5/15/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 05, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457428001	3052 River Road, Conestoga, PA	Water	05/05/2026 08:35	05/05/2026 15:20	C	
3457428002	Trip Blank	Water	05/05/2026 00:00	05/05/2026 15:20	C	

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 STDL for method SM2320B-21 was outside the control limits for the analyte Alkalinity, Total. The % Recovery was reported as 86.1 and the control limits were 90 to 110.
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 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	05/05/2026 08:35
Lab Sample ID	3457428001	Lab Receipt	05/05/2026 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.08	pH_Units		Field	#
Specific Conductance, Field	231	umhos/cm	1	Field	#
Temperature	14.60	Deg. C		Field	#
METALS					
Calcium, Dissolved	15.2	mg/L	0.10	EPA 200.7	#
Calcium, Total	15.5	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	9.3	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.032	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.027	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.0	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.8	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	8.2	mg/L	0.50	EPA 200.7	#
Sodium, Total	7.9	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	5	mg/L	5	SM2320B-21	#
Alkalinity, Total	5	mg/L	5	SM2320B-21	#
Chloride	19.3	mg/L	0.50	EPA 300.0	#
Nitrate-N	16.1	mg/L	0.050	EPA 300.0	#
pH	7.10	pH_Units		SM4500HB-21	#
Specific Conductance	224	umhos/cm	5	SM2510B-21	#
Sulfate	2.0	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	148	mg/L	25	SM2540C-20	#
Turbidity	0.50	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	05/05/2026 08:35
Lab Sample ID	3457428001	Lab Receipt	05/05/2026 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.08		pH_Units		Field	1	05/05/2026 08:35	E2P	O
Specific Conductance, Field	231		umhos/cm	1	Field	1	05/05/2026 08:35	E2P	O
Temperature	14.60		Deg. C		Field	1	05/05/2026 08:35	E2P	O

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	15.2		mg/L	0.10	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Calcium, Total	15.5	4	mg/L	0.050	EPA 200.7	1	05/14/2026 13:09	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/14/2026 13:09	AAJ	D1
Magnesium, Dissolved	9.3		mg/L	0.10	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Magnesium, Total	8.8	4	mg/L	0.050	EPA 200.7	1	05/14/2026 13:09	AAJ	D1
Manganese, Dissolved	0.032		mg/L	0.0050	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Manganese, Total	0.027		mg/L	0.0025	EPA 200.7	1	05/14/2026 13:09	AAJ	D1
Potassium, Dissolved	2.0		mg/L	0.50	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Potassium, Total	1.8		mg/L	0.25	EPA 200.7	1	05/14/2026 13:09	AAJ	D1
Sodium, Dissolved	8.2		mg/L	0.50	EPA 200.7	1	05/13/2026 12:51	AAJ	F
Sodium, Total	7.9		mg/L	0.25	EPA 200.7	1	05/14/2026 13:09	AAJ	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	05/06/2026 19:17	TMP	L
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:17	TMP	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	97.2%	70 – 130	05/06/2026 19:17	

WET CHEMISTRY

Results

Client Sample ID	3052 River Road, Conestoga, PA	Collected	05/05/2026 08:35
Lab Sample ID	3457428001	Lab Receipt	05/05/2026 15:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	5		mg/L	5	SM2320B-21	1	05/07/2026 13:37	TJH	A
Alkalinity, Total	5	1,2	mg/L	5	SM2320B-21	1	05/07/2026 13:37	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/07/2026 16:22	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	19.3		mg/L	0.50	EPA 300.0	2	05/06/2026 19:13	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2026 19:13	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/12/2026 17:19	PAG	K
Nitrate-N	16.1		mg/L	0.050	EPA 300.0	2	05/06/2026 19:13	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/06/2026 19:13	J1W	A
pH	7.10	3	pH_Units		SM4500HB-21	1	05/07/2026 13:37	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 15:37	A1L	J
Specific Conductance	224		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	2.0		mg/L	0.50	EPA 300.0	2	05/06/2026 19:13	J1W	A
Total Dissolved Solids	148		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/07/2026 20:49	PAG	H
Turbidity	0.50		NTU	0.30	SM2130B-20	1	05/06/2026 09:15	AOO	A

Results

Client Sample ID	Trip Blank	Collected	05/05/2026 00:00
Lab Sample ID	3457428002	Lab Receipt	05/05/2026 15:20

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	05/06/2026 17:22	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:22	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	97.7%	70 – 130	05/06/2026 17:22	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457428001	3052 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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457428002	Trip 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
3457428001	3052 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1546184	05/13/2026 17:35	RMH	EPA 200.7	1546246
		N/A	N/A	N/A		EPA 524.2	1544192
		N/A	N/A	N/A		EPA 300.0	1544002
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1544005
		N/A	N/A	N/A		SM2130B-20	1544003
		N/A	N/A	N/A		SM2320B-21	1544143
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1544143
		N/A	N/A	N/A		SM5310B-14	1544818
		N/A	N/A	N/A		SW846 9020B	1545888
3457428002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1544192

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.

COC 3457428
ALS
Logged By: DXB
PM: SIW
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	5/5/26	08:35		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/5/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Ta... Num ID: 847 WO Temp (°C) 12°

*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 #__
PWS Contact:_____ PWS Phone #:_____

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

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-5.08 SPC-231 TEMP-14.6

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/5/2026	15:20	1	ALS EP	2	Nana/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 Gerald E. Miller Sr Workorder 3457428

Temp °C 12° Therm ID 649 Ice? (Y) N N/A Initials & Date Nana 5.5.26

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				
•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:

_____

_____

_____

5/15/2026 3:42 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 LCSWMA Quarterly
Workorder 3457429
Report ID 512398 on 5/21/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 05, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457429001	3056RIVERRD	Water	05/05/2026 08:50	05/05/2026 15:20	C	
3457429002	TRIP BLANK	Water	05/05/2026 00:00	05/05/2026 15:20	C	

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 STDL for method SM2320B-21 was outside the control limits for the analyte Alkalinity, Total. The % Recovery was reported as 86.1 and the control limits were 90 to 110.
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 EPA 200.7 was outside the control limits for the analyte Calcium, Dissolved. The % Recovery was reported as 67.1 and the control limits were 70 to 130.
5	The QC sample type MS for method EPA 200.7 was outside the control limits for the analyte Magnesium, Dissolved. The % Recovery was reported as 68.1 and the control limits were 70 to 130.

Detected Results Summary

Client Sample ID	3056RIVERRD	Collected	05/05/2026 08:50
Lab Sample ID	3457429001	Lab Receipt	05/05/2026 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	4.76	pH_Units		Field	#
Specific Conductance, Field	246	umhos/cm	1	Field	#
Temperature	15.80	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	10.7	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	11.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	11.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.070	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.068	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.3	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.0	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	9.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.5	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Chloride	22.2	mg/L	0.50	EPA 300.0	#
Nitrate-N	16.3	mg/L	0.050	EPA 300.0	#
pH	6.73	pH_Units		SM4500HB-21	#
Specific Conductance	226	umhos/cm	5	SM2510B-21	#
Total Dissolved Solids	139	mg/L	25	SM2540C-20	#
Total Organic Carbon (TOC)	0.99	mg/L	0.50	SM5310B-14	#

Results

Client Sample ID	3056RIVERRD	Collected	05/05/2026 08:50
Lab Sample ID	3457429001	Lab Receipt	05/05/2026 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	4.76		pH_Units		Field	1	05/05/2026 08:50	E2P	P
Specific Conductance, Field	246		umhos/cm	1	Field	1	05/05/2026 08:50	E2P	P
Temperature	15.80		Deg. C		Field	1	05/05/2026 08:50	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.3	4	mg/L	0.10	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Calcium, Total	10.7		mg/L	0.050	EPA 200.7	1	05/11/2026 09:55	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/11/2026 09:55	AAJ	D1
Magnesium, Dissolved	11.8	5	mg/L	0.10	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Magnesium, Total	11.3		mg/L	0.050	EPA 200.7	1	05/11/2026 09:55	AAJ	D1
Manganese, Dissolved	0.070		mg/L	0.0050	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Manganese, Total	0.068		mg/L	0.0025	EPA 200.7	1	05/11/2026 09:55	AAJ	D1
Potassium, Dissolved	2.3		mg/L	0.50	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Potassium, Total	2.0		mg/L	0.25	EPA 200.7	1	05/11/2026 09:55	AAJ	D1
Sodium, Dissolved	9.0		mg/L	0.50	EPA 200.7	1	05/13/2026 12:32	AAJ	F
Sodium, Total	8.5		mg/L	0.25	EPA 200.7	1	05/11/2026 09:55	AAJ	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	05/06/2026 19:40	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 19:40	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	98.5%	70 – 130	05/06/2026 19:40	

WET CHEMISTRY

Results

Client Sample ID	3056RIVERRD	Collected	05/05/2026 08:50
Lab Sample ID	3457429001	Lab Receipt	05/05/2026 15:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-21	1	05/07/2026 13:48	TJH	A
Alkalinity, Total	ND	ND,1,2	mg/L	5	SM2320B-21	1	05/07/2026 13:48	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/07/2026 18:57	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	22.2		mg/L	0.50	EPA 300.0	2	05/06/2026 19:27	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2026 19:27	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/15/2026 15:37	PAG	K
Nitrate-N	16.3		mg/L	0.050	EPA 300.0	2	05/06/2026 19:27	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/06/2026 19:27	J1W	A
pH	6.73	3	pH_Units		SM4500HB-21	1	05/07/2026 13:48	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 15:00	A1L	J
Specific Conductance	226		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	ND	ND	mg/L	0.50	EPA 300.0	2	05/06/2026 19:27	J1W	A
Total Dissolved Solids	139		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	0.99		mg/L	0.50	SM5310B-14	1	05/12/2026 02:14	PAG	H
Turbidity	ND	ND	NTU	0.30	SM2130B-20	1	05/06/2026 09:15	AOO	A

Results

Client Sample ID	TRIP BLANK	Collected	05/05/2026 00:00
Lab Sample ID	3457429002	Lab Receipt	05/05/2026 15:20

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	05/06/2026 17:45	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 17:45	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	99.5%	70 – 130	05/06/2026 17:45	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457429001	3056RIVERRD	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457429002	TRIP 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
3457429001	3056RIVERRD	N/A	N/A	N/A		Field	
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1544861	05/07/2026 17:26	RMH	EPA 200.7	1545689
		N/A	N/A	N/A		EPA 524.2	1544192
		N/A	N/A	N/A		EPA 300.0	1544002
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545169
		N/A	N/A	N/A		SM2130B-20	1544003
		N/A	N/A	N/A		SM2320B-21	1544143
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1544143
		N/A	N/A	N/A		SM5310B-14	1545777
		N/A	N/A	N/A		SW846 9020B	1546391
3457429002	TRIP BLANK	N/A	N/A	N/A		EPA 524.2	1544192

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.

COC 3457429 Logged By: DXB PM: SIW ALS (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	3056RIVERRD	5/5/26	08:50		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/5/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Nana Therm ID: 649 WO Temp (°C) 12°

*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: ID:

Comments: PH-4.76 SPC-246 TEMP-15.8

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/5/2026	1520	1	ALS EP	2	Nana 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 Lancaster County Solid Waste MA Workorder 31575429

Temp °C 12° Therm ID 649 Ice? (Y) N N/A Initials & Date Nana 5.5.26

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				
•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: 2550 Boulevard of the Generals, Suite 290 | West Norriton, PA 19403 | Phone: 717-982-8315

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 LCSWMA Quarterly
Workorder 3458945
Report ID 514615 on 6/5/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 21, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3458945001	3060RIVERRD	Water	05/21/2026 10:30	05/21/2026 14:00	EMP	ALS Environmental-Middletown
3458945002	TRIP BLANK	Water	05/21/2026 00:00	05/21/2026 14:00	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 MB for method EPA 300.0 was outside the control limits for the analyte Chloride. The concentration was reported at 0.27 mg/L and the control limit is less than 0.11mg/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	3060RIVERRD	Collected	05/21/2026 10:30
Lab Sample ID	3458945001	Lab Receipt	05/21/2026 14:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.87	pH_Units		Field	#
Specific Conductance, Field	227	umhos/cm	1	Field	#
Temperature	17.68	Deg. C		Field	#
METALS					
Calcium, Dissolved	10.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	10.1	mg/L	0.050	EPA 200.7	#
Iron, Total	0.032	mg/L	0.030	EPA 200.7	#
Magnesium, Dissolved	10.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	10.6	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.099	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.095	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.6	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.6	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	9.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	8.8	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Chloride	17.5	mg/L	0.50	EPA 300.0	#
Nitrate-N	14.7	mg/L	0.050	EPA 300.0	#
pH	6.83	pH_Units		SM4500HB-21	#
Specific Conductance	281	umhos/cm	5	SM2510B-21	#
Sulfate	7.8	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	134	mg/L	25	SM2540C-20	#
Turbidity	1.9	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3060RIVERRD	Collected	05/21/2026 10:30
Lab Sample ID	3458945001	Lab Receipt	05/21/2026 14:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.87		pH_Units		Field	1	05/21/2026 10:30	E2P	P
Specific Conductance, Field	227		umhos/cm	1	Field	1	05/21/2026 10:30	E2P	P
Temperature	17.68		Deg. C		Field	1	05/21/2026 10:30	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	10.3		mg/L	0.10	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Calcium, Total	10.1		mg/L	0.050	EPA 200.7	1	06/02/2026 14:28	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Iron, Total	0.032		mg/L	0.030	EPA 200.7	1	06/02/2026 14:28	AAJ	D1
Magnesium, Dissolved	10.4		mg/L	0.10	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Magnesium, Total	10.6		mg/L	0.050	EPA 200.7	1	06/02/2026 14:28	AAJ	D1
Manganese, Dissolved	0.099		mg/L	0.0050	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Manganese, Total	0.095		mg/L	0.0025	EPA 200.7	1	06/02/2026 14:28	AAJ	D1
Potassium, Dissolved	2.6		mg/L	0.50	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Potassium, Total	2.6		mg/L	0.25	EPA 200.7	1	06/02/2026 14:28	AAJ	D1
Sodium, Dissolved	9.0		mg/L	0.50	EPA 200.7	1	05/27/2026 12:14	AAJ	F
Sodium, Total	8.8		mg/L	0.25	EPA 200.7	1	06/02/2026 14:28	AAJ	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	05/27/2026 16:52	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/27/2026 16:52	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	88.8%	70 – 130	05/27/2026 16:52	

WET CHEMISTRY

Results

Client Sample ID	3060RIVERRD	Collected	05/21/2026 10:30
Lab Sample ID	3458945001	Lab Receipt	05/21/2026 14:00

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-21	1	06/02/2026 02:46	TJH	A
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-21	1	06/02/2026 02:46	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/25/2026 18:16	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/27/2026 11:22	KMS	C
Chloride	17.5	2	mg/L	0.50	EPA 300.0	2	05/22/2026 17:51	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/22/2026 17:51	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	06/03/2026 17:13	PAG	K
Nitrate-N	14.7		mg/L	0.050	EPA 300.0	2	05/22/2026 17:51	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/22/2026 17:51	J1W	A
pH	6.83	3	pH_Units		SM4500HB-21	1	06/02/2026 02:46	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	06/03/2026 16:50	A1L	J
Specific Conductance	281		umhos/cm	5	SM2510B-21	1	05/29/2026 12:26	TJH	A
Sulfate	7.8		mg/L	0.50	EPA 300.0	2	05/22/2026 17:51	J1W	A
Total Dissolved Solids	134		mg/L	25	SM2540C-20	1	05/27/2026 14:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/27/2026 17:12	PAG	H
Turbidity	1.9		NTU	0.30	SM2130B-20	1	05/22/2026 12:01	AOO	A

Results

Client Sample ID	TRIP BLANK	Collected	05/21/2026 00:00
Lab Sample ID	3458945002	Lab Receipt	05/21/2026 14:00

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	06/01/2026 14:29	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	06/01/2026 14:29	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	87%	70 – 130	06/01/2026 14:29	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3458945001	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3458945002	TRIP 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
3458945001	3060RIVERRD	N/A	N/A	N/A		Field	
		EPA TRMD	1551036	06/01/2026 17:05	RMH	EPA 200.7	1551348
		EPA ACID	1550273	05/27/2026 08:19	AAJ	EPA 200.7	1550277
		N/A	N/A	N/A		EPA 524.2	1550360
		N/A	N/A	N/A		EPA 300.0	1548979
		N/A	N/A	N/A		EPA 410.4	1550048
		SW846 9066	1551041	06/03/2026 11:44	A1L	EPA 420.4	1552008
		N/A	N/A	N/A		S4500NH3G-21	1548960
		N/A	N/A	N/A		SM2130B-20	1548968
		N/A	N/A	N/A		SM2320B-21	1550966
		N/A	N/A	N/A		SM2510B-21	1550558
		N/A	N/A	N/A		SM2540C-20	1550279
		N/A	N/A	N/A		SM4500HB-21	1550966
		N/A	N/A	N/A		SM5310B-14	1550064
		N/A	N/A	N/A		SW846 9020B	1551967
3458945002	TRIP BLANK	N/A	N/A	N/A		EPA 524.2	1551013

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.

COC #: 3458945 of
ALS Quote #:
Logged By: MZP
PM: SIW

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	500ML	250ML
	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	5/21/26	10:30		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/21/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: 8

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: EP **ID:**

Comments: PH-5.87 TEMP-17.68 SPC-227

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/21/2026	14:00	1	ALS EP	2	
		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 3458948

Temp °C 8 Therm ID 352 Ice? (Y) N N/A Initials & Date tkh 5-21-26

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				
•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 LCSWMA Quarterly
Workorder 3457695
Report ID 512728 on 5/25/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 07, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457695001	3076RIVERRD	Water	05/07/2026 09:45	05/07/2026 13:00	EMP	ALS Environmental-Middletown
3457695002	Trip Blank	Water	05/07/2026 00:00	05/07/2026 13:00	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	3076RIVERRD	Collected	05/07/2026 09:45
Lab Sample ID	3457695001	Lab Receipt	05/07/2026 13:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	4.95	pH_Units		Field	#
Specific Conductance, Field	301	umhos/cm	1	Field	#
Temperature	15.30	Deg. C		Field	#
METALS					
Calcium, Dissolved	13.6	mg/L	0.10	EPA 200.7	#
Calcium, Total	13.0	mg/L	0.050	EPA 200.7	#
Iron, Total	0.057	mg/L	0.030	EPA 200.7	#
Magnesium, Dissolved	8.4	mg/L	0.10	EPA 200.7	#
Magnesium, Total	8.1	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.13	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.13	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	3.2	mg/L	0.50	EPA 200.7	#
Potassium, Total	3.1	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	26.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	25.0	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	8	mg/L	5	SM2320B-21	#
Alkalinity, Total	8	mg/L	5	SM2320B-21	#
Chloride	55.1	mg/L	0.50	EPA 300.0	#
Nitrate-N	8.4	mg/L	0.050	EPA 300.0	#
pH	6.18	pH_Units		SM4500HB-21	#
Specific Conductance	298	umhos/cm	5	SM2510B-21	#
Sulfate	10.2	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	193	mg/L	25	SM2540C-20	#
Turbidity	0.90	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3076RIVERRD	Collected	05/07/2026 09:45
Lab Sample ID	3457695001	Lab Receipt	05/07/2026 13:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	4.95		pH_Units		Field	1	05/04/2026 09:45	E2P	P
Specific Conductance, Field	301		umhos/cm	1	Field	1	05/04/2026 09:45	E2P	P
Temperature	15.30		Deg. C		Field	1	05/04/2026 09:45	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	13.6		mg/L	0.10	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Calcium, Total	13.0		mg/L	0.050	EPA 200.7	1	05/21/2026 14:27	AAJ	D
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Iron, Total	0.057		mg/L	0.030	EPA 200.7	1	05/21/2026 14:27	AAJ	D
Magnesium, Dissolved	8.4		mg/L	0.10	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Magnesium, Total	8.1		mg/L	0.050	EPA 200.7	1	05/21/2026 14:27	AAJ	D
Manganese, Dissolved	0.13		mg/L	0.0050	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Manganese, Total	0.13		mg/L	0.0025	EPA 200.7	1	05/21/2026 14:27	AAJ	D
Potassium, Dissolved	3.2		mg/L	0.50	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Potassium, Total	3.1		mg/L	0.25	EPA 200.7	1	05/21/2026 14:27	AAJ	D
Sodium, Dissolved	26.8		mg/L	0.50	EPA 200.7	1	05/13/2026 13:18	AAJ	F
Sodium, Total	25.0		mg/L	0.25	EPA 200.7	1	05/21/2026 14:27	AAJ	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	05/18/2026 14:36	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 14:36	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	90.4%	70 – 130	05/18/2026 14:36	

WET CHEMISTRY

Results

Client Sample ID	3076RIVERRD	Collected	05/07/2026 09:45
Lab Sample ID	3457695001	Lab Receipt	05/07/2026 13:00

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	8		mg/L	5	SM2320B-21	1	05/18/2026 16:42	TJH	A
Alkalinity, Total	8	1	mg/L	5	SM2320B-21	1	05/18/2026 16:42	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/14/2026 12:33	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	55.1		mg/L	0.50	EPA 300.0	2	05/08/2026 15:51	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/08/2026 15:51	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/18/2026 17:47	PAG	K
Nitrate-N	8.4		mg/L	0.050	EPA 300.0	2	05/08/2026 15:51	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/08/2026 15:51	J1W	A
pH	6.18	2	pH_Units		SM4500HB-21	1	05/18/2026 16:42	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 16:26	A1L	J
Specific Conductance	298		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	10.2		mg/L	0.50	EPA 300.0	2	05/08/2026 15:51	J1W	A
Total Dissolved Solids	193		mg/L	25	SM2540C-20	1	05/13/2026 15:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/12/2026 22:14	PAG	H
Turbidity	0.90		NTU	0.30	SM2130B-20	1	05/08/2026 11:20	AOO	A

Results

Client Sample ID	Trip Blank	Collected	05/07/2026 00:00
Lab Sample ID	3457695002	Lab Receipt	05/07/2026 13:00

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	05/18/2026 12:17	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 12:17	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91%	70 – 130	05/18/2026 12:17	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457695001	3076RIVERRD	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457695002	Trip 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
3457695001	3076RIVERRD	N/A	N/A	N/A		Field	1548152
		EPA TRMD	1547804	05/20/2026 09:05	RMH	EPA 200.7	1548352
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		N/A	N/A	N/A		EPA 524.2	1546981
		N/A	N/A	N/A		EPA 300.0	1545072
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545909
		N/A	N/A	N/A		SM2130B-20	1545069
		N/A	N/A	N/A		SM2320B-21	1546101
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545825
		N/A	N/A	N/A		SM4500HB-21	1546101
		N/A	N/A	N/A		SM5310B-14	1545941
		N/A	N/A	N/A		SW846 9020B	1546970
3457695002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1546981

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.

COC #: 3457695
Logged By: MZP
PM: SIW
ALS Quote #:

Receipt Info
Temp Taken By: 352 2

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	5/7/26	09:45		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/7/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

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

Comments: PH-4.95 SPC-301 TEMP-15.3

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/7/2026	13:00	1	ALS EP	2	DAG/ALS
		3		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

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 3457695

Temp °C 2 Therm ID 352 Ice? (Y) N N/A Initials & Date HLh 5-7-26

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				
•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 LCSWMA Quarterly
Workorder 3457697
Report ID 512731 on 5/25/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 07, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457697001	3079RIVERRD	Water	05/07/2026 11:35	05/07/2026 13:00	EMP	ALS Environmental-Middletown
3457697002	TRIP BLANK	Water	05/07/2026 00:00	05/07/2026 13:00	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	05/07/2026 11:35
Lab Sample ID	3457697001	Lab Receipt	05/07/2026 13:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	6.20	mg/L	0.01	Field	#
Oxidation-Reduction Potential	120	mV		Field	#
pH, Field (SM4500B)	5.49	pH_Units		Field	#
Specific Conductance, Field	185	umhos/cm	1	Field	#
Temperature	17.30	Deg. C		Field	#
METALS					
Calcium, Dissolved	11.4	mg/L	0.10	EPA 200.7	#
Calcium, Total	11.4	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	5.8	mg/L	0.10	EPA 200.7	#
Magnesium, Total	5.7	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.021	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.020	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.1	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.9	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	14.0	mg/L	0.50	EPA 200.7	#
Sodium, Total	13.2	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	24	mg/L	5	SM2320B-21	#
Alkalinity, Total	24	mg/L	5	SM2320B-21	#
Chloride	29.0	mg/L	0.50	EPA 300.0	#
Nitrate-N	2.1	mg/L	0.050	EPA 300.0	#
Nitrite-N	0.12	mg/L	0.050	EPA 300.0	#
pH	6.64	pH_Units		SM4500HB-21	#
Specific Conductance	185	umhos/cm	5	SM2510B-21	#
Sulfate	8.2	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	120	mg/L	25	SM2540C-20	#
Turbidity	0.80	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3079RIVERRD	Collected	05/07/2026 11:35
Lab Sample ID	3457697001	Lab Receipt	05/07/2026 13:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	6.20		mg/L	0.01	Field	1	05/04/2026 11:35	E2P	P
Oxidation-Reduction Potential	120		mV		Field	1	05/04/2026 11:35	E2P	P
pH, Field (SM4500B)	5.49		pH_Units		Field	1	05/04/2026 11:35	E2P	P
Specific Conductance, Field	185		umhos/cm	1	Field	1	05/04/2026 11:35	E2P	P
Temperature	17.30		Deg. C		Field	1	05/04/2026 11:35	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	11.4		mg/L	0.10	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Calcium, Total	11.4		mg/L	0.050	EPA 200.7	1	05/21/2026 14:40	AAJ	D
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/21/2026 14:40	AAJ	D
Magnesium, Dissolved	5.8		mg/L	0.10	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Magnesium, Total	5.7		mg/L	0.050	EPA 200.7	1	05/21/2026 14:40	AAJ	D
Manganese, Dissolved	0.021		mg/L	0.0050	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Manganese, Total	0.020		mg/L	0.0025	EPA 200.7	1	05/21/2026 14:40	AAJ	D
Potassium, Dissolved	2.1		mg/L	0.50	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Potassium, Total	1.9		mg/L	0.25	EPA 200.7	1	05/21/2026 14:40	AAJ	D
Sodium, Dissolved	14.0		mg/L	0.50	EPA 200.7	1	05/13/2026 13:02	AAJ	F
Sodium, Total	13.2		mg/L	0.25	EPA 200.7	1	05/21/2026 14:40	AAJ	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	05/18/2026 15:45	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 15:45	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	89.3%	70 – 130	05/18/2026 15:45	

Results

Client Sample ID	3079RIVERRD	Collected	05/07/2026 11:35
Lab Sample ID	3457697001	Lab Receipt	05/07/2026 13:00

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	24		mg/L	5	SM2320B-21	1	05/18/2026 16:58	TJH	A
Alkalinity, Total	24	1	mg/L	5	SM2320B-21	1	05/18/2026 16:58	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/14/2026 12:36	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	29.0		mg/L	0.50	EPA 300.0	2	05/08/2026 16:05	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/08/2026 16:05	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/18/2026 17:47	PAG	K
Nitrate-N	2.1		mg/L	0.050	EPA 300.0	2	05/08/2026 16:05	J1W	A
Nitrite-N	0.12		mg/L	0.050	EPA 300.0	2	05/08/2026 16:05	J1W	A
pH	6.64	2	pH_Units		SM4500HB-21	1	05/18/2026 16:58	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 16:23	A1L	J
Specific Conductance	185		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	8.2		mg/L	0.50	EPA 300.0	2	05/08/2026 16:05	J1W	A
Total Dissolved Solids	120		mg/L	25	SM2540C-20	1	05/13/2026 15:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/12/2026 22:14	PAG	H
Turbidity	0.80		NTU	0.30	SM2130B-20	1	05/08/2026 11:20	AOO	A

Results

Client Sample ID	TRIP BLANK	Collected	05/07/2026 00:00
Lab Sample ID	3457697002	Lab Receipt	05/07/2026 13:00

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	05/18/2026 13:03	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 13:03	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.1%	70 – 130	05/18/2026 13:03	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457697001	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457697002	TRIP 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
3457697001	3079RIVERRD	N/A	N/A	N/A		Field	1548152
		EPA TRMD	1547804	05/20/2026 09:05	RMH	EPA 200.7	1548352
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		N/A	N/A	N/A		EPA 524.2	1546981
		N/A	N/A	N/A		EPA 300.0	1545072
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545909
		N/A	N/A	N/A		SM2130B-20	1545069
		N/A	N/A	N/A		SM2320B-21	1546101
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545825
		N/A	N/A	N/A		SM4500HB-21	1546101
		N/A	N/A	N/A		SM5310B-14	1545941
		N/A	N/A	N/A		SW846 9020B	1546970
3457697002	TRIP BLANK	N/A	N/A	N/A		EPA 524.2	1546981

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.

COC #: 3457697
ALS Quote #:
Logged By: MZP
PM: SIW
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

Enter Number of Containers Per Sample or Field Results Below.

	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
1	3079RIVERRD	5/7/26	11:35		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/7/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

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

Comments: PH-5.49 SPC-185 TEMP-173 DO-6.20 ORP-120

Receipt Info completed by:
Temp Taken By: 352 2
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 #
PWS Contact: PWS Phone #:

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

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

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/7/2026	~~1200~~	1	ALS EP	2	DAG/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

Middletown Sample Condition Form

Client LCSWMA Workorder 3457697

Temp °C 2 Therm ID 352 Ice? (Y) N N/A Initials & Date HLh 5-7-26

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
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				
•Composite or grab				
•Matrix				
Proper containers, preservation, and volume per method				
Received within hold time				
Containers intact				
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days				
CR6 Samples Filtered				
OP Samples Filtered				
WV Containers 0-6°C				
SDWA compliance reporting			X	

[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:

_____

_____

_____

5/25/2026 11:36 AM

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 LCSWMA Quarterly
Workorder 3457694
Report ID 512729 on 5/25/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 07, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457694001	3088RIVERRD	Water	05/07/2026 10:30	05/07/2026 13:00	EMP	ALS Environmental-Middletown
3457694002	Trip Blank	Water	05/07/2026 00:00	05/07/2026 13:00	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 QC sample type DUP for method SM2540C-20 was outside the control limits for the analyte Total Dissolved Solids. The RPD was reported as 8.93 and the upper control limit is 5.

Detected Results Summary

Client Sample ID	3088RIVERRD	Collected	05/07/2026 10:30
Lab Sample ID	3457694001	Lab Receipt	05/07/2026 13:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	6.02	mg/L	0.01	Field	#
Oxidation-Reduction Potential	180	mV		Field	#
pH, Field (SM4500B)	6.66	pH_Units		Field	#
Specific Conductance, Field	940	umhos/cm	1	Field	#
Temperature	19.80	Deg. C		Field	#
METALS					
Calcium, Dissolved	0.11	mg/L	0.10	EPA 200.7	#
Calcium, Total	0.13	mg/L	0.050	EPA 200.7	#
Potassium, Dissolved	1.2	mg/L	0.50	EPA 200.7	#
Potassium, Total	1.2	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	215	mg/L	0.50	EPA 200.7	#
Sodium, Total	189	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	199	mg/L	5	SM2320B-21	#
Alkalinity, Total	199	mg/L	5	SM2320B-21	#
Ammonia-N, Low Level	0.19	mg/L	0.10	S4500NH3G-21	#
Chloride	167	mg/L	0.50	EPA 300.0	#
Nitrate-N	7.2	mg/L	0.050	EPA 300.0	#
pH	7.73	pH_Units		SM4500HB-21	#
Specific Conductance	997	umhos/cm	5	SM2510B-21	#
Total Dissolved Solids	608	mg/L	25	SM2540C-20	#
Turbidity	1.0	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3088RIVERRD	Collected	05/07/2026 10:30
Lab Sample ID	3457694001	Lab Receipt	05/07/2026 13:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	6.02		mg/L	0.01	Field	1	05/04/2026 10:20	E2P	P
Oxidation-Reduction Potential	180		mV		Field	1	05/04/2026 10:20	E2P	P
pH, Field (SM4500B)	6.66		pH_Units		Field	1	05/04/2026 10:20	E2P	P
Specific Conductance, Field	940		umhos/cm	1	Field	1	05/04/2026 10:20	E2P	P
Temperature	19.80		Deg. C		Field	1	05/04/2026 10:20	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	0.11		mg/L	0.10	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Calcium, Total	0.13		mg/L	0.050	EPA 200.7	1	05/21/2026 14:19	AAJ	D
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/21/2026 14:19	AAJ	D
Magnesium, Dissolved	ND	ND	mg/L	0.10	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Magnesium, Total	ND	ND	mg/L	0.050	EPA 200.7	1	05/21/2026 14:19	AAJ	D
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	05/21/2026 14:19	AAJ	D
Potassium, Dissolved	1.2		mg/L	0.50	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Potassium, Total	1.2		mg/L	0.25	EPA 200.7	1	05/21/2026 14:19	AAJ	D
Sodium, Dissolved	215		mg/L	0.50	EPA 200.7	1	05/13/2026 13:00	AAJ	F
Sodium, Total	189		mg/L	0.25	EPA 200.7	1	05/21/2026 14:19	AAJ	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	05/18/2026 04:48	PDK	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 04:48	PDK	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	93.6%	70 – 130	05/18/2026 04:48	

Results

Client Sample ID	3088RIVERRD	Collected	05/07/2026 10:30
Lab Sample ID	3457694001	Lab Receipt	05/07/2026 13:00

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	199		mg/L	5	SM2320B-21	1	05/18/2026 15:56	TJH	A
Alkalinity, Total	199	1	mg/L	5	SM2320B-21	1	05/18/2026 15:56	TJH	A
Ammonia-N, Low Level	0.19		mg/L	0.10	S4500NH3G-21	1	05/14/2026 12:30	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	167		mg/L	0.50	EPA 300.0	2	05/08/2026 15:38	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/08/2026 15:38	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/18/2026 17:47	PAG	K
Nitrate-N	7.2		mg/L	0.050	EPA 300.0	2	05/08/2026 15:38	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/08/2026 15:38	J1W	A
pH	7.73	2	pH_Units		SM4500HB-21	1	05/18/2026 15:56	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 16:51	A1L	J
Specific Conductance	997		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	ND	ND	mg/L	0.50	EPA 300.0	2	05/08/2026 15:38	J1W	A
Total Dissolved Solids	608	3	mg/L	25	SM2540C-20	1	05/13/2026 15:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/12/2026 22:14	PAG	H
Turbidity	1.0		NTU	0.30	SM2130B-20	1	05/08/2026 11:20	AOO	A

Results

Client Sample ID	Trip Blank	Collected	05/07/2026 00:00
Lab Sample ID	3457694002	Lab Receipt	05/07/2026 13:00

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	05/18/2026 00:58	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/18/2026 00:58	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	89.9%	70 – 130	05/18/2026 00:58	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457694001	3088RIVERRD	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457694002	Trip 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
3457694001	3088RIVERRD	N/A	N/A	N/A		Field	1548152
		EPA TRMD	1547804	05/20/2026 09:05	RMH	EPA 200.7	1548352
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		N/A	N/A	N/A		EPA 524.2	1546841
		N/A	N/A	N/A		EPA 300.0	1545072
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545909
		N/A	N/A	N/A		SM2130B-20	1545069
		N/A	N/A	N/A		SM2320B-21	1546101
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545825
		N/A	N/A	N/A		SM4500HB-21	1546101
		N/A	N/A	N/A		SM5310B-14	1545941
		N/A	N/A	N/A		SW846 9020B	1546970
3457694002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1546841

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.

COC #: 3457694 of
ALS Quote #:
Logged By: MZP
PM: SIW

Rec 357 7
Temp Taken By:

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 1030	5/7/26	10:20		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank MH 5726	5/7/26	NA		G	Di				2						
3																
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	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: EP **ID:**

Comments: PH-6.66 SPC-940 TEMP-19.8 DO-6.02 ORP-180

Date:	Time	Relinquished By / Company Name		Received By / Company Name	
5/7/2026	13:00	1 ALS EP		2 DAG/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 34557694

Temp °C 2 Therm ID 352 Ice? (Y) N N/A Initials & Date HLh 5-7-26

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		✱		UC
•Type(s) of preservation	✱			
•Number of containers				
•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:

_____

_____

_____

5/25/2026 11:34 AM

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 LCSWMA Quarterly
Workorder 3457522
Report ID 512438 on 5/21/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 06, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457522001	3100RIVERRD	Water	05/06/2026 09:40	05/06/2026 16:00	C	
3457522002	Trip Blank	Water	05/06/2026 00:00	05/06/2026 16:00	C	

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	3100RIVERRD	Collected	05/06/2026 09:40
Lab Sample ID	3457522001	Lab Receipt	05/06/2026 16:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	3.10	mg/L	0.01	Field	#
Oxidation-Reduction Potential	222	mV		Field	#
pH, Field (SM4500B)	5.33	pH_Units		Field	#
Specific Conductance, Field	219	umhos/cm	1	Field	#
Temperature	18.82	Deg. C		Field	#
METALS					
Calcium, Dissolved	12.3	mg/L	0.10	EPA 200.7	#
Calcium, Total	12.2	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	7.0	mg/L	0.10	EPA 200.7	#
Magnesium, Total	6.8	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.011	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	1.6	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	19.9	mg/L	0.50	EPA 200.7	#
Sodium, Total	18.8	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	13	mg/L	5	SM2320B-21	#
Alkalinity, Total	13	mg/L	5	SM2320B-21	#
Chloride	48.4	mg/L	0.50	EPA 300.0	#
Nitrate-N	4.3	mg/L	0.050	EPA 300.0	#
pH	7.03	pH_Units		SM4500HB-21	#
Specific Conductance	235	umhos/cm	5	SM2510B-21	#
Sulfate	4.2	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	157	mg/L	25	SM2540C-20	#
Turbidity	1.2	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3100RIVERRD	Collected	05/06/2026 09:40
Lab Sample ID	3457522001	Lab Receipt	05/06/2026 16:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	3.10		mg/L	0.01	Field	1	05/06/2026 09:40	E2P	P
Oxidation-Reduction Potential	222		mV		Field	1	05/06/2026 09:40	E2P	P
pH, Field (SM4500B)	5.33		pH_Units		Field	1	05/06/2026 09:40	E2P	P
Specific Conductance, Field	219		umhos/cm	1	Field	1	05/06/2026 09:40	E2P	P
Temperature	18.82		Deg. C		Field	1	05/06/2026 09:40	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	12.3		mg/L	0.10	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Calcium, Total	12.2		mg/L	0.050	EPA 200.7	1	05/14/2026 13:58	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/14/2026 13:58	AAJ	D1
Magnesium, Dissolved	7.0		mg/L	0.10	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Magnesium, Total	6.8		mg/L	0.050	EPA 200.7	1	05/14/2026 13:58	AAJ	D1
Manganese, Dissolved	0.011		mg/L	0.0050	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Manganese, Total	0.012		mg/L	0.0025	EPA 200.7	1	05/14/2026 13:58	AAJ	D1
Potassium, Dissolved	1.8		mg/L	0.50	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Potassium, Total	1.6		mg/L	0.25	EPA 200.7	1	05/14/2026 13:58	AAJ	D1
Sodium, Dissolved	19.9		mg/L	0.50	EPA 200.7	1	05/13/2026 12:57	AAJ	F
Sodium, Total	18.8		mg/L	0.25	EPA 200.7	1	05/14/2026 13:58	AAJ	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	05/16/2026 16:16	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 16:16	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	87.2%	70 – 130	05/16/2026 16:16	

Results

Client Sample ID	3100RIVERRD	Collected	05/06/2026 09:40
Lab Sample ID	3457522001	Lab Receipt	05/06/2026 16:00

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	13		mg/L	5	SM2320B-21	1	05/08/2026 19:09	TJH	A
Alkalinity, Total	13	1	mg/L	5	SM2320B-21	1	05/08/2026 19:09	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/11/2026 15:10	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	48.4		mg/L	0.50	EPA 300.0	2	05/07/2026 12:16	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2026 12:16	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/18/2026 17:47	PAG	K
Nitrate-N	4.3		mg/L	0.050	EPA 300.0	2	05/07/2026 12:16	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/07/2026 12:16	J1W	A
pH	7.03	2	pH_Units		SM4500HB-21	1	05/08/2026 19:09	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 16:56	A1L	J
Specific Conductance	235		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	4.2		mg/L	0.50	EPA 300.0	2	05/07/2026 12:16	J1W	A
Total Dissolved Solids	157		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/12/2026 02:14	PAG	H
Turbidity	1.2		NTU	0.30	SM2130B-20	1	05/07/2026 09:33	NPF	A

Results

Client Sample ID	Trip Blank	Collected	05/06/2026 00:00
Lab Sample ID	3457522002	Lab Receipt	05/06/2026 16:00

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	05/16/2026 11:40	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 11:40	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	94.6%	70 – 130	05/16/2026 11:40	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457522001	3100RIVERRD	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457522002	Trip 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
3457522001	3100RIVERRD	N/A	N/A	N/A		Field	1548152
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1546184	05/13/2026 17:35	RMH	EPA 200.7	1546246
		N/A	N/A	N/A		EPA 524.2	1546514
		N/A	N/A	N/A		EPA 300.0	1544592
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545275
		N/A	N/A	N/A		SM2130B-20	1544597
		N/A	N/A	N/A		SM2320B-21	1545315
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1545315
		N/A	N/A	N/A		SM5310B-14	1545777
		N/A	N/A	N/A		SW846 9020B	1546970
3457522002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1546514

ALS
Middletown, PA 17057
P. 717-944-5541

REQUEST FOR ANALYSIS

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

ALS Q

Logged By: DXB
PM: SIW

of

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	5/6/26	9:40		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/6/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C)

*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: EP **ID:**

Comments: PH-5.33 SPC-219 TEMP-18.82 DO-3.10 ORP-222

Date:	Time	Relinquished By / Company Name		Received By / Company Name
5/6/2026	16:00	1 ALS EP	2	
		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 3457522

Temp °C 5 Therm ID 649 Ice? (Y) N N/A Initials & Date DAG 5/12/20

Fedex UPS Client (ALS) Other Tracking # _____

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

[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 LCSWMA Quarterly
Workorder 3457520
Report ID 512395 on 5/21/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 06, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457520001	3106RIVERRD	Water	05/06/2026 15:00	05/06/2026 16:00	C	
3457520002	Trip Blank	Water	05/06/2026 00:00	05/06/2026 16:00	C	

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	3106RIVERRD	Collected	05/06/2026 15:00
Lab Sample ID	3457520001	Lab Receipt	05/06/2026 16:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	5.39	pH_Units		Field	#
Specific Conductance, Field	556	umhos/cm	1	Field	#
Temperature	15.60	Deg. C		Field	#
METALS					
Calcium, Dissolved	23.5	mg/L	0.10	EPA 200.7	#
Calcium, Total	23.9	mg/L	0.050	EPA 200.7	#
Magnesium, Dissolved	16.1	mg/L	0.10	EPA 200.7	#
Magnesium, Total	16.3	mg/L	0.050	EPA 200.7	#
Manganese, Dissolved	0.044	mg/L	0.0050	EPA 200.7	#
Manganese, Total	0.043	mg/L	0.0025	EPA 200.7	#
Potassium, Dissolved	2.4	mg/L	0.50	EPA 200.7	#
Potassium, Total	2.4	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	52.8	mg/L	0.50	EPA 200.7	#
Sodium, Total	51.7	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	11	mg/L	5	SM2320B-21	#
Alkalinity, Total	11	mg/L	5	SM2320B-21	#
Chloride	134	mg/L	0.50	EPA 300.0	#
Halogen, Total Organic (TOX)	56.7	ug/L	20.0	SW846 9020B	#
Nitrate-N	8.6	mg/L	0.050	EPA 300.0	#
pH	6.86	pH_Units		SM4500HB-21	#
Specific Conductance	572	umhos/cm	5	SM2510B-21	#
Sulfate	4.6	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	380	mg/L	25	SM2540C-20	#
Total Organic Carbon (TOC)	0.59	mg/L	0.50	SM5310B-14	#
Turbidity	1.1	NTU	0.30	SM2130B-20	#

Results

Client Sample ID	3106RIVERRD	Collected	05/06/2026 15:00
Lab Sample ID	3457520001	Lab Receipt	05/06/2026 16:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	5.39		pH_Units		Field	1	05/06/2026 15:00	E2P	P
Specific Conductance, Field	556		umhos/cm	1	Field	1	05/06/2026 15:00	E2P	P
Temperature	15.60		Deg. C		Field	1	05/06/2026 15:00	E2P	P

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Dissolved	23.5		mg/L	0.10	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Calcium, Total	23.9		mg/L	0.050	EPA 200.7	1	05/13/2026 14:08	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/13/2026 14:08	AAJ	D1
Magnesium, Dissolved	16.1		mg/L	0.10	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Magnesium, Total	16.3		mg/L	0.050	EPA 200.7	1	05/13/2026 14:08	AAJ	D1
Manganese, Dissolved	0.044		mg/L	0.0050	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Manganese, Total	0.043		mg/L	0.0025	EPA 200.7	1	05/13/2026 14:08	AAJ	D1
Potassium, Dissolved	2.4		mg/L	0.50	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Potassium, Total	2.4		mg/L	0.25	EPA 200.7	1	05/13/2026 14:08	AAJ	D1
Sodium, Dissolved	52.8		mg/L	0.50	EPA 200.7	1	05/13/2026 12:55	AAJ	F
Sodium, Total	51.7		mg/L	0.25	EPA 200.7	1	05/13/2026 14:08	AAJ	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	05/16/2026 15:53	TMP	O
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/16/2026 15:53	TMP	O

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	91.8%	70 – 130	05/16/2026 15:53	

WET CHEMISTRY

Results

Client Sample ID	3106RIVERRD	Collected	05/06/2026 15:00
Lab Sample ID	3457520001	Lab Receipt	05/06/2026 16:00

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	11		mg/L	5	SM2320B-21	1	05/08/2026 18:56	TJH	A
Alkalinity, Total	11	1	mg/L	5	SM2320B-21	1	05/08/2026 18:56	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/11/2026 15:06	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	134		mg/L	0.50	EPA 300.0	2	05/07/2026 12:02	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2026 12:02	J1W	A
Halogen, Total Organic (TOX)	56.7		ug/L	20.0	SW846 9020B	1	05/15/2026 15:37	PAG	K
Nitrate-N	8.6		mg/L	0.050	EPA 300.0	2	05/07/2026 12:02	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/07/2026 12:02	J1W	A
pH	6.86	2	pH_Units		SM4500HB-21	1	05/08/2026 18:56	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 17:00	A1L	J
Specific Conductance	572		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	4.6		mg/L	0.50	EPA 300.0	2	05/07/2026 12:02	J1W	A
Total Dissolved Solids	380		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	0.59		mg/L	0.50	SM5310B-14	1	05/12/2026 02:14	PAG	H
Turbidity	1.1		NTU	0.30	SM2130B-20	1	05/07/2026 09:33	NPF	A

Results

Client Sample ID	Trip Blank	Collected	05/06/2026 00:00
Lab Sample ID	3457520002	Lab Receipt	05/06/2026 16:00

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	05/13/2026 13:27	CMQ	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/13/2026 13:27	CMQ	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	109%	70 – 130	05/13/2026 13:27	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457520001	3106RIVERRD	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457520002	Trip 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
3457520001	3106RIVERRD	N/A	N/A	N/A		Field	1548152
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1545990	05/12/2026 16:53	RMH	EPA 200.7	1546089
		N/A	N/A	N/A		EPA 524.2	1546514
		N/A	N/A	N/A		EPA 300.0	1544592
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545275
		N/A	N/A	N/A		SM2130B-20	1544597
		N/A	N/A	N/A		SM2320B-21	1545315
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1545315
		N/A	N/A	N/A		SM5310B-14	1545777
		N/A	N/A	N/A		SW846 9020B	1546391
3457520002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1546121

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.

3457520
Logged By: DXB
PM: SIW

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	5/6/26	15:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/6/26	NA		G	Di				2						
3																
4																
5																
6																
7																
8																
9																
10																

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

Comments: PH-5.39 SPC-556 TEMP-15.6

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/6/2026	16:00	1	ALS EP	2	
		3		4	
		5		6	
		7		8	
		9		10	

* 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

Therm ID: WO Temp (°C) 5

Receipt Info completed by:

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 #

WV Containers 0-6°C Y N NA

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 #
PWS Contact: PWS Phone #:

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

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

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

right solutions. right partner.

Middletown Sample Condition Form

Client LCSWMA Workorder 3457520

Temp °C 5 Therm ID 649 Ice? (Y) N N/A Initials & Date DAG 5/12/20

Fedex UPS Client (ALS) Other Tracking # _____

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

[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:

_____

_____

_____

5/21/2026 7:24 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 LCSWMA Quarterly
Workorder 3457430
Report ID 511584 on 5/15/2026

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 05, 2026.

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 Stacey Welk (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
Daniel Brown - Lancaster County Solid Waste Authority
Jordan McConathey - Lancaster County Solid Waste Authority
Jeff Musser - Lancaster County Solid Waste Authority
Stacey Welk - ALS Environmental

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

Stacey Welk

Stacey Welk *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3457430001	3125 River Road, Conestoga, PA	Water	05/05/2026 12:00	05/05/2026 15:20	C	
3457430002	Trip Blank	Water	05/05/2026 00:00	05/05/2026 15:20	C	
3457430003	Field Blank	Water	05/05/2026 12:10	05/05/2026 15:20	C	

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 STDL for method SM2320B-21 was outside the control limits for the analyte Alkalinity, Total. The % Recovery was reported as 86.1 and the control limits were 90 to 110.
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	3125 River Road, Conestoga, PA	Collected	05/05/2026 12:00
Lab Sample ID	3457430001	Lab Receipt	05/05/2026 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
pH, Field (SM4500B)	7.18	pH_Units		Field	#
Specific Conductance, Field	713	umhos/cm	1	Field	#
Temperature	19.50	Deg. C		Field	#
METALS					
Calcium, Total	0.11	mg/L	0.050	EPA 200.7	#
Potassium, Dissolved	0.74	mg/L	0.50	EPA 200.7	#
Potassium, Total	0.65	mg/L	0.25	EPA 200.7	#
Sodium, Dissolved	160	mg/L	0.50	EPA 200.7	#
Sodium, Total	153	mg/L	0.25	EPA 200.7	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	48	mg/L	5	SM2320B-21	#
Alkalinity, Total	212	mg/L	5	SM2320B-21	#
Chloride	93.2	mg/L	0.50	EPA 300.0	#
Nitrate-N	5.0	mg/L	0.050	EPA 300.0	#
pH	8.59	pH_Units		SM4500HB-21	#
Specific Conductance	748	umhos/cm	5	SM2510B-21	#
Sulfate	12.5	mg/L	0.50	EPA 300.0	#
Total Dissolved Solids	436	mg/L	25	SM2540C-20	#
Total Organic Carbon (TOC)	0.50	mg/L	0.50	SM5310B-14	#
Turbidity	0.35	NTU	0.30	SM2130B-20	#

Detected Results Summary

Client Sample ID	Field Blank	Collected	05/05/2026 12:10
Lab Sample ID	3457430003	Lab Receipt	05/05/2026 15:20

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methylene Chloride	4.2	ug/L	0.50	EPA 524.2	#

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	05/05/2026 12:00
Lab Sample ID	3457430001	Lab Receipt	05/05/2026 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
pH, Field (SM4500B)	7.18		pH_Units		Field	1	05/05/2026 12:00	E2P	P
Specific Conductance, Field	713		umhos/cm	1	Field	1	05/05/2026 12:00	E2P	P
Temperature	19.50		Deg. C		Field	1	05/05/2026 12:00	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	05/13/2026 12:53	AAJ	F
Calcium, Total	0.11		mg/L	0.050	EPA 200.7	1	05/14/2026 13:45	AAJ	D1
Iron, Dissolved	ND	ND	mg/L	0.060	EPA 200.7	1	05/13/2026 12:53	AAJ	F
Iron, Total	ND	ND	mg/L	0.030	EPA 200.7	1	05/14/2026 13:45	AAJ	D1
Magnesium, Dissolved	ND	ND	mg/L	0.10	EPA 200.7	1	05/13/2026 12:53	AAJ	F
Magnesium, Total	ND	ND	mg/L	0.050	EPA 200.7	1	05/14/2026 13:45	AAJ	D1
Manganese, Dissolved	ND	ND	mg/L	0.0050	EPA 200.7	1	05/13/2026 12:53	AAJ	F
Manganese, Total	ND	ND	mg/L	0.0025	EPA 200.7	1	05/14/2026 13:45	AAJ	D1
Potassium, Dissolved	0.74		mg/L	0.50	EPA 200.7	1	05/13/2026 12:53	AAJ	F
Potassium, Total	0.65		mg/L	0.25	EPA 200.7	1	05/14/2026 13:45	AAJ	D1
Sodium, Dissolved	160		mg/L	0.50	EPA 200.7	1	05/13/2026 12:53	AAJ	F
Sodium, Total	153		mg/L	0.25	EPA 200.7	1	05/14/2026 13:45	AAJ	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	05/06/2026 20:03	TMP	M
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 20:03	TMP	M

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	101%	70 – 130	05/06/2026 20:03	

WET CHEMISTRY

Results

Client Sample ID	3125 River Road, Conestoga, PA	Collected	05/05/2026 12:00
Lab Sample ID	3457430001	Lab Receipt	05/05/2026 15:20

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	48		mg/L	5	SM2320B-21	1	05/07/2026 15:03	TJH	A
Alkalinity, Total	212	1,2	mg/L	5	SM2320B-21	1	05/07/2026 15:03	TJH	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	S4500NH3G-21	1	05/07/2026 19:04	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/11/2026 13:55	KMS	C
Chloride	93.2		mg/L	0.50	EPA 300.0	2	05/06/2026 19:40	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2026 19:40	J1W	A
Halogen, Total Organic (TOX)	ND	ND	ug/L	20.0	SW846 9020B	1	05/15/2026 15:37	PAG	K
Nitrate-N	5.0		mg/L	0.050	EPA 300.0	2	05/06/2026 19:40	J1W	A
Nitrite-N	ND	ND	mg/L	0.050	EPA 300.0	2	05/06/2026 19:40	J1W	A
pH	8.59	3	pH_Units		SM4500HB-21	1	05/07/2026 15:03	TJH	A
Phenolics	ND	ND	mg/L	0.005	EPA 420.4	1	05/13/2026 14:33	A1L	J
Specific Conductance	748		umhos/cm	5	SM2510B-21	1	05/11/2026 11:24	TJH	A
Sulfate	12.5		mg/L	0.50	EPA 300.0	2	05/06/2026 19:40	J1W	A
Total Dissolved Solids	436		mg/L	25	SM2540C-20	1	05/08/2026 18:45	RAG	A
Total Organic Carbon (TOC)	0.50		mg/L	0.50	SM5310B-14	1	05/07/2026 20:49	PAG	H
Turbidity	0.35		NTU	0.30	SM2130B-20	1	05/06/2026 09:15	AOO	A

Results

Client Sample ID	Trip Blank	Collected	05/05/2026 00:00
Lab Sample ID	3457430002	Lab Receipt	05/05/2026 15:20

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	05/06/2026 18:08	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Methylene Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:08	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	98.7%	70 – 130	05/06/2026 18:08	

Results

Client Sample ID	Field Blank	Collected	05/05/2026 12:10
Lab Sample ID	3457430003	Lab Receipt	05/05/2026 15:20

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	05/06/2026 18:31	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Benzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Ethylbenzene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Methylene Chloride	4.2		ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Tetrachloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Toluene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Total Xylenes	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Trichloroethene	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A
Vinyl Chloride	ND	ND	ug/L	0.50	EPA 524.2	1	05/06/2026 18:31	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
4-Bromofluorobenzene	460-00-4	99.2%	70 – 130	05/06/2026 18:31	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3457430001	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	
		S4500NH3G-21	N/A	
		SM2130B-20	N/A	
		SM2320B-21	N/A	
		SM2510B-21	N/A	
		SM2540C-20	N/A	
		SM4500HB-21	N/A	
		SM5310B-14	N/A	
		SW846 9020B	N/A	
3457430002	Trip Blank	EPA 524.2	N/A	
3457430003	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
3457430001	3125 River Road, Conestoga, PA	N/A	N/A	N/A		Field	
		EPA ACID	1546049	05/13/2026 08:26	AAJ	EPA 200.7	1546053
		EPA TRMD	1546184	05/13/2026 17:35	RMH	EPA 200.7	1546246
		N/A	N/A	N/A		EPA 524.2	1544192
		N/A	N/A	N/A		EPA 300.0	1544002
		N/A	N/A	N/A		EPA 410.4	1545700
		SW846 9066	1546091	05/13/2026 09:53	A1L	EPA 420.4	1546094
		N/A	N/A	N/A		S4500NH3G-21	1545169
		N/A	N/A	N/A		SM2130B-20	1544003
		N/A	N/A	N/A		SM2320B-21	1544143
		N/A	N/A	N/A		SM2510B-21	1545713
		N/A	N/A	N/A		SM2540C-20	1545273
		N/A	N/A	N/A		SM4500HB-21	1544143
		N/A	N/A	N/A		SM5310B-14	1544818
		N/A	N/A	N/A		SW846 9020B	1546391
3457430002	Trip Blank	N/A	N/A	N/A		EPA 524.2	1544192
3457430003	Field Blank	N/A	N/A	N/A		EPA 524.2	1544192

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.

COC 3457430 Logged By: DXB PM: SIW

ALS ____ of ____

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	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	5/5/26	12:00		G	DW	2	2	1	3	x	1	2	2	1	1
2	Trip Blank	5/5/26	NA		G	Di				2						
3	Field Blank	5/5/26	12:10		G	Di				2						
4																
5																
6																
7																
8																
9																
10																

Temp Taken By: Nana Therm ID: 649 (Lab) WO Temp (°C) 12°

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: **ID:**

Comments: PH-7.18 SPC-713 TEMP-19.5

Date:	Time		Relinquished By / Company Name		Received By / Company Name
5/5/2026	15:20	1	ALS EP	2	Nana/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 Christian C. Beck Workorder 3457430

Temp °C 12° Therm ID 649 Ice? (Y) N N/A Initials & Date Nana 5.5.26

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				
•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:

_____

_____

_____