2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP015W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 36.43 " — Longitude: 76 ° 27 ' 10.82 "

Depth to Water Level: 63.9 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.90 ft — Elevation of Water Level: 512.5 ft./MSL

Sampling Depth: 135 ft — Volume of Water Column: 124.84 gal

Total Well Depth: 148.9 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 2.1

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/4/2025 — Sample Collection Time: 11:50

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428694002 — Final Lab Analysis CompletionDate: 8/13/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP015W
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	28	SM20-2320B
CALCIUM, TOTAL	30.6	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	34.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	88	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	22.9	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	28.6 E	EPA 300
pH-FIELD (SU)	5.63	FIELD
pH-LAB (SU)	7.54	SM20-4500HB
POTASSIUM, TOTAL	2.1	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	19.5	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	456	FIELD
SPEC. COND., LAB (umhos/cm)	453	SW846 9050A
SULFATE	25.2	EPA 300
ALKALINITY	28	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	318	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.1	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.85	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP015W
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

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Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP033W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 31.09 " — Longitude: 76 ° 27 ' 4.98 "

Depth to Water Level: 19.93 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 0.49 ft — Elevation of Water Level: 496.59 ft./MSL

Sampling Depth: 79 ft — Volume of Water Column: 111.72 gal

Total Well Depth: 96 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.7

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/4/2025 — Sample Collection Time: 11:02

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428694003 — Final Lab Analysis CompletionDate: 8/13/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP033W
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	32	SM20-2320B
CALCIUM, TOTAL	38.8	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	88.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	4300	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	14.2	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	210	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	10.4	EPA 300
pH-FIELD (SU)	5.56	FIELD
pH-LAB (SU)	7.59	SM20-4500HB
POTASSIUM, TOTAL	1.9	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	19.8	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	457	FIELD
SPEC. COND., LAB (umhos/cm)	457	SW846 9050A
SULFATE	12	EPA 300
ALKALINITY	32	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	354	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	5.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP033W
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

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MUNICIPAL WASTE LANDFILL
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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP30RW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 15.52 " — Longitude: 76 ° 27 ' 26.8 "

Depth to Water Level: 33.4 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.20 ft — Elevation of Water Level: 528.9 ft./MSL

Sampling Depth: 85 ft — Volume of Water Column: 83.13 gal

Total Well Depth: 90 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 2.1

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/4/2025 — Sample Collection Time: 14:28

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428694004 — Final Lab Analysis CompletionDate: 8/14/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP30RW
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	27	SM20-2320B
CALCIUM, TOTAL	31.2	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	187	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	99	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	16.5	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	1500	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	6.7	EPA 300
pH-FIELD (SU)	5.27	FIELD
pH-LAB (SU)	7.47	SM20-4500HB
POTASSIUM, TOTAL	4.3	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	82.1	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	737	FIELD
SPEC. COND., LAB (umhos/cm)	748	SW846 9050A
SULFATE	22	EPA 300
ALKALINITY	27	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	476	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.67	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2.4	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP30RW
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP04AW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 15.4 " — Longitude: 76 ° 27 ' 26.58 "

Depth to Water Level: 32.8 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.52 ft — Elevation of Water Level: 527.92 ft./MSL

Sampling Depth: 146 ft — Volume of Water Column: 394.66 gal

Total Well Depth: 301.52 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.5

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/4/2025 — Sample Collection Time: 15:34

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428694005 — Final Lab Analysis CompletionDate: 8/13/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP04AW
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	184	SM20-2320B
CALCIUM, TOTAL	160	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	326	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	85	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	27.4	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	480	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	2.5 ND	EPA 300
pH-FIELD (SU)	7.09	FIELD
pH-LAB (SU)	8.22	SM20-4500HB
POTASSIUM, TOTAL	2.9	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	93.5	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	1471	FIELD
SPEC. COND., LAB (umhos/cm)	1480	SW846 9050A
SULFATE	58.3	EPA 300
ALKALINITY	184	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1070	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.81	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
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I.D. No	101389
Monitoring Point No.	FFMP04AW
Sample Date	8/4/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

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BUREAU OF WASTE MANAGEMENT

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Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP029W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 12.93 " — Longitude: 76 ° 27 ' 0.67 "

Depth to Water Level: 38.22 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.00 ft — Elevation of Water Level: 439.08 ft./MSL

Sampling Depth: 55 ft — Volume of Water Column: 29.78 gal

Total Well Depth: 58.5 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 3.5

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/5/2025 — Sample Collection Time: 9:13

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428877001 — Final Lab Analysis CompletionDate: 8/13/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP029W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	10	SM20-2320B
CALCIUM, TOTAL	11.5	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	55.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	67 ND	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	8.9	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	18	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	2.9	EPA 300
pH-FIELD (SU)	5.11	FIELD
pH-LAB (SU)	7.18	SM20-4500HB
POTASSIUM, TOTAL	1.9	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	18.3	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	242	FIELD
SPEC. COND., LAB (umhos/cm)	249	SW846 9050A
SULFATE	2.9	EPA 300
ALKALINITY	10	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	194	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.35	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP029W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP017W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 8.5 " — Longitude: 76 ° 27 ' 6.17 "

Depth to Water Level: 41.41 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.00 ft — Elevation of Water Level: 439.29 ft./MSL

Sampling Depth: 135 ft — Volume of Water Column: 160.22 gal

Total Well Depth: 150.5 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.3

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/5/2025 — Sample Collection Time: 10:47

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428877002 — Final Lab Analysis CompletionDate: 8/14/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP017W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.28	D6919-09
BICARBONATE ALKALINITY	117	SM20-2320B
CALCIUM, TOTAL	145	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	442	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	67 ND	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	47.6	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	1900	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	2.6	EPA 300
pH-FIELD (SU)	6.14	FIELD
pH-LAB (SU)	8.07	SM20-4500HB
POTASSIUM, TOTAL	14.7	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	155	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	1950	FIELD
SPEC. COND., LAB (umhos/cm)	1930	SW846 9050A
SULFATE	107	EPA 300
ALKALINITY	117	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1260	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	3.3	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP017W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP034W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: ___

Sampling Point Latitude: ___ ° ___ ' ___ " — Longitude: ___ ° ___ ' ___ "

Depth to Water Level: 9.69 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: ___ ft — Elevation of Water Level: 463.19 ft./MSL

Sampling Depth: 25.85 ft — Volume of Water Column: ___ gal

Total Well Depth: 121 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.4

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/5/2025 — Sample Collection Time: 12:11

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428877003 — Final Lab Analysis CompletionDate: 8/14/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments: ___

I.D. No	101389
Monitoring Point No.	FFMP034W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	41	SM20-2320B
CALCIUM, TOTAL	52.3	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	127	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	1300	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	19.5	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	100	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	11.2	EPA 300
pH-FIELD (SU)	5.84	FIELD
pH-LAB (SU)	7.85	SM20-4500HB
POTASSIUM, TOTAL	3.7	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	39.7	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	665	FIELD
SPEC. COND., LAB (umhos/cm)	674	SW846 9050A
SULFATE	29.3	EPA 300
ALKALINITY	41	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	466	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.3	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	10	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP034W
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP03AW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 24.05 " — Longitude: 76 ° 27 ' 30.58 "

Depth to Water Level: 50.8 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.20 ft — Elevation of Water Level: 540.10 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 141.58 gal

Total Well Depth: 147.2 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.9

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/5/2025 — Sample Collection Time: 14:15

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3428877004 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP03AW
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	13	SM20-2320B
CALCIUM, TOTAL	21.6	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	59.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	120	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	18	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	290	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	18	EPA 300
pH-FIELD (SU)	5.1	FIELD
pH-LAB (SU)	7.24	SM20-4500HB
POTASSIUM, TOTAL	1.6	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	17.7	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	388	FIELD
SPEC. COND., LAB (umhos/cm)	388	SW846 9050A
SULFATE	2 ND	EPA 300
ALKALINITY	13	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	288	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	6	SW846 9066
TURBIDITY (N.T.U.)	0.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP03AW
Sample Date	8/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
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Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP02DW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 27.74 " — Longitude: 76 ° 27 ' 1.49 "

Depth to Water Level: 25.45 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: ___ ft — Elevation of Water Level: 484.15 ft./MSL

Sampling Depth: 120 ft — Volume of Water Column: ___ gal

Total Well Depth: 152 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.0

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/6/2025 — Sample Collection Time: 9:29

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429266001 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP02DW
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	127	SM20-2320B
CALCIUM, TOTAL	129	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	341	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	1000	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	19.8	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	150	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	6.2	EPA 300
pH-FIELD (SU)	7.4	FIELD
pH-LAB (SU)	8.29	SM20-4500HB
POTASSIUM, TOTAL	1.3	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	138	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	1526	FIELD
SPEC. COND., LAB (umhos/cm)	1540	SW846 9050A
SULFATE	40.7	EPA 300
ALKALINITY	128	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1080	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1	SW846 9060A
TOTAL PHENOLICS (ug/l)	30	SW846 9066
TURBIDITY (N.T.U.)	9.1	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP02DW
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
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Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP26RW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 11.03 " — Longitude: 76 ° 27 ' 20.3 "

Depth to Water Level: 71.34 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 3.30 ft — Elevation of Water Level: 476.06 ft./MSL

Sampling Depth: 105 ft — Volume of Water Column: 62.65 gal

Total Well Depth: 114 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.2

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/6/2025 — Sample Collection Time: 11:40

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429266002 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP26RW
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	2.58	D6919-09
BICARBONATE ALKALINITY	67	SM20-2320B
CALCIUM, TOTAL	70.2	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	134	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	67 ND	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	17	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	580	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1.6	EPA 300
pH-FIELD (SU)	5.34	FIELD
pH-LAB (SU)	7.82	SM20-4500HB
POTASSIUM, TOTAL	8.2	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	55.3	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	785	FIELD
SPEC. COND., LAB (umhos/cm)	795	SW846 9050A
SULFATE	94.5	EPA 300
ALKALINITY	67	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	502	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	2.1	SW846 9060A
TOTAL PHENOLICS (ug/l)	7	SW846 9066
TURBIDITY (N.T.U.)	0.35	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP26RW
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP005W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 10.67 " — Longitude: 76 ° 27 ' 21.3 "

Depth to Water Level: 61.8 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.70 ft — Elevation of Water Level: 475.60 ft./MSL

Sampling Depth: 135 ft — Volume of Water Column: 129.54 gal

Total Well Depth: 150 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.4

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/6/2025 — Sample Collection Time: 12:08

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429266003 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP005W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.83	D6919-09
BICARBONATE ALKALINITY	65	SM20-2320B
CALCIUM, TOTAL	78.9	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	154	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	67 ND	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	19	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	150	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1.9	EPA 300
pH-FIELD (SU)	5.7	FIELD
pH-LAB (SU)	7.82	SM20-4500HB
POTASSIUM, TOTAL	3.2	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	53.8	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	836	FIELD
SPEC. COND., LAB (umhos/cm)	846	SW846 9050A
SULFATE	77.8	EPA 300
ALKALINITY	65	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	568	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.8	SW846 9060A
TOTAL PHENOLICS (ug/l)	4	SW846 9066
TURBIDITY (N.T.U.)	0.4	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP005W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP035W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 15.95 " — Longitude: 76 ° 26 ' 57.26 "

Depth to Water Level: 42.66 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.45 ft — Elevation of Water Level: 434.9 ft./MSL

Sampling Depth: 65 ft — Volume of Water Column: 40.15 gal

Total Well Depth: 70 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.0

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/6/2025 — Sample Collection Time: 14:08

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429266004 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP035W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	53	SM20-2320B
CALCIUM, TOTAL	37.3	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	43.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	74	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	9.8	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	6.9	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	4.9	EPA 300
pH-FIELD (SU)	6.62	FIELD
pH-LAB (SU)	7.91	SM20-4500HB
POTASSIUM, TOTAL	3.1	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	23.3	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	392	FIELD
SPEC. COND., LAB (umhos/cm)	398	SW846 9050A
SULFATE	45.1	EPA 300
ALKALINITY	53	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	228	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	2.5	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.7	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP035W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP036W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 16.03 " — Longitude: 76 ° 26 ' 57.28 "

Depth to Water Level: 48.82 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.91 ft — Elevation of Water Level: 429.41 ft./MSL

Sampling Depth: 135 ft — Volume of Water Column: 133.91 gal

Total Well Depth: 140 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.0

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/6/2025 — Sample Collection Time: 14:31

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429266005 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP036W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.56	D6919-09
BICARBONATE ALKALINITY	95	SM20-2320B
CALCIUM, TOTAL	49.7	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	32.3	EPA 300
FLUORIDE	0.26	EPA 300
IRON, TOTAL (ug/l)	1600	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	5.1	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	140	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.37	FIELD
pH-LAB (SU)	8.35	SM20-4500HB
POTASSIUM, TOTAL	0.84	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	16.1	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	356	FIELD
SPEC. COND., LAB (umhos/cm)	356	SW846 9050A
SULFATE	26.9	EPA 300
ALKALINITY	98	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	220	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.56	SW846 9060A
TOTAL PHENOLICS (ug/l)	5	SW846 9066
TURBIDITY (N.T.U.)	13	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP036W
Sample Date	8/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
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QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP038W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 10.18 " — Longitude: 76 ° 27 ' 2.2 "

Depth to Water Level: 19.4 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.15 ft — Elevation of Water Level: 434.64 ft./MSL

Sampling Depth: 46 ft — Volume of Water Column: 44.94 gal

Total Well Depth: 50 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.6

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/7/2025 — Sample Collection Time: 12:02

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429466001 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP038W
Sample Date	8/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	80	SM20-2320B
CALCIUM, TOTAL	71.7	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	93.8	EPA 300
FLUORIDE	0.24	EPA 300
IRON, TOTAL (ug/l)	1100	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	6.3	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	73	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.91	FIELD
pH-LAB (SU)	8.21	SM20-4500HB
POTASSIUM, TOTAL	1	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	13.3	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	513	FIELD
SPEC. COND., LAB (umhos/cm)	510	SW846 9050A
SULFATE	12.5	EPA 300
ALKALINITY	80	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	478	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	11	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP038W
Sample Date	8/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP039W — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 10.38 " — Longitude: 76 ° 27 ' 2.83 "

Depth to Water Level: 13.4 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.04 ft — Elevation of Water Level: 442.06 ft./MSL

Sampling Depth: 118 ft — Volume of Water Column: 171.24 gal

Total Well Depth: 130 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.8

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/7/2025 — Sample Collection Time: 13:15

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429466002 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP039W
Sample Date	8/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.44	D6919-09
BICARBONATE ALKALINITY	43	SM20-2320B
CALCIUM, TOTAL	88.7	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	294	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	1100	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	29.9	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	950	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	2.5 ND	EPA 300
pH-FIELD (SU)	5.73	FIELD
pH-LAB (SU)	7.71	SM20-4500HB
POTASSIUM, TOTAL	7.2	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	86.7	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	1211	FIELD
SPEC. COND., LAB (umhos/cm)	1230	SW846 9050A
SULFATE	47.6	EPA 300
ALKALINITY	43	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	950	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.3	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	4.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP039W
Sample Date	8/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP031W — X Well ___ Spring ___ Stream ___ Other

X Upgradient/Upstream ___ Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 31.2 " — Longitude: 76 ° 27 ' 23.53 "

Depth to Water Level: 63.96 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.38 ft — Elevation of Water Level: 548.7 ft./MSL

Sampling Depth: 130 ft — Volume of Water Column: 111.68 gal

Total Well Depth: 140 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 0.1

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/8/2025 — Sample Collection Time: 12:43

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429813001 — Final Lab Analysis CompletionDate: 8/21/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP031W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	125	SM20-2320B
CALCIUM, TOTAL	73.2	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	21.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	1200	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	4.8	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	480	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1.5	EPA 300
pH-FIELD (SU)	7.5	FIELD
pH-LAB (SU)	8.29	SM20-4500HB
POTASSIUM, TOTAL	1.6	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	9.5	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	428	FIELD
SPEC. COND., LAB (umhos/cm)	430	SW846 9050A
SULFATE	48.6	EPA 300
ALKALINITY	131	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	328	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	8.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP031W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
DEP USE ONLY
Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP002W — X Well ___ Spring ___ Stream ___ Other

X Upgradient/Upstream ___ Downgradient/Downstream

Location (County): Lancaster County — Municipality: Manor Township

Sampling Point — Latitude: 39 ° 57 ' 32.25 " — Longitude: 76 ° 27 ' 24.03 "

Depth to Water Level: 55.58 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 1.60 ft — Elevation of Water Level: 557.62 ft./MSL

Sampling Depth: 85 ft — Volume of Water Column: 167.46 gal

Total Well Depth: 169.6 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 0.2

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/8/2025 — Sample Collection Time: 11:44

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429813002 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP002W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	5 ND	SM20-2320B
CALCIUM, TOTAL	16.9	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	15.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	75	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	7	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	220	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	17.2	EPA 300
pH-FIELD (SU)	4.63	FIELD
pH-LAB (SU)	6.12	SM20-4500HB
POTASSIUM, TOTAL	1.8	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	14.5	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	240	FIELD
SPEC. COND., LAB (umhos/cm)	238	SW846 9050A
SULFATE	11.9	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	232	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.54	SW846 9060A
TOTAL PHENOLICS (ug/l)	6	SW846 9066
TURBIDITY (N.T.U.)	0.45	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP002W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
10/14/2025
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Date Received

FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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General Reference: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP032W — X Well ___ Spring ___ Stream ___ Other

X Upgradient/Upstream ___ Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 33.45 " — Longitude: 76 ° 27 ' 17.71 "

Depth to Water Level: 49.3 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: 2.06 ft — Elevation of Water Level: 544.79 ft./MSL

Sampling Depth: 62 ft — Volume of Water Column: 37.74 gal

Total Well Depth: 75 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 0.2

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/8/2025 — Sample Collection Time: 14:54

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429813003 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP032W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	1.26	D6919-09
BICARBONATE ALKALINITY	67	SM20-2320B
CALCIUM, TOTAL	20.4	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	33.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	5700	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	7.4	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	760	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.65	FIELD
pH-LAB (SU)	8.13	SM20-4500HB
POTASSIUM, TOTAL	2	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	14.5	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	253	FIELD
SPEC. COND., LAB (umhos/cm)	243	SW846 9050A
SULFATE	2 ND	EPA 300
ALKALINITY	67	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	275	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	40	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP032W
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

2540-FM-BWM0041 Rev. 6/2005

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised
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FORM 19

MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 19, 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: Section 273.284
Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facitlity ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Monitoring Wells must be designed and constructed in accordance with Department Standards. INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (D° MM' SS.S")

Monitoring Point Number: FFMP02SW — X Well ___ Spring ___ Stream ___ Other

___ Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County — Municipality: MANOR TOWNSHIP

Sampling Point — Latitude: 39 ° 57 ' 27.9 " — Longitude: 76 ° 27 ' 1.58 "

Depth to Water Level: 14.48 ft — Measured from: ___ Land Surface X TOC

Casing Stickup: ___ ft — Elevation of Water Level: 495.42 ft./MSL

Sampling Depth: 18 ft — Volume of Water Column: ___ gal

Total Well Depth: 25 ft — Sampling Method: X Pumped ___ Bailed ___ Grab

Well Purged: X Yes ___ No — Well Volumes Purged: 1.8

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

Spring Flow Rate: __gpm

Sample Date (mm/dd/yy): 8/8/2025 — Sample Collection Time: 16:46

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

Were any holding times exceeded?: ___ Yes X No If yes, please explain in comments field.

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3429813004 — Final Lab Analysis CompletionDate: 8/19/2025

Name/Affiliation of Person who Filled Out Form: Daniel A. Brown

Comments:

I.D. No	101389
Monitoring Point No.	FFMP02SW
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	D6919-09
BICARBONATE ALKALINITY	19	SM20-2320B
CALCIUM, TOTAL	28.7	SW846 6010C
CALCIUM, DISSOLVED		SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	135	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	140	SW846 6010C
IRON, DISSOLVED (ug/l)		SW846 6010C
MAGNESIUM, TOTAL	9.9	SW846 6010C
MAGNESIUM, DISSOLVED		SW846 6010C
MANGANESE, TOTAL (ug/l)	30	SW846 6010C
MANGANESE, DISSOLVED (ug/l)		SW846 6010C
NITRATE-NITROGEN	9.6	EPA 300
pH-FIELD (SU)	5.21	FIELD
pH-LAB (SU)	7.39	SM20-4500HB
POTASSIUM, TOTAL	4.3	SW846 6010C
POTASSIUM, DISSOLVED		SW846 6010C
SODIUM, TOTAL	81.7	SW846 6010C
SODIUM, DISSOLVED		SW846 6010C
SPEC. COND., FIELD (umhos/cm)	671	FIELD
SPEC. COND., LAB (umhos/cm)	658	SW846 9050A
SULFATE	47.1	EPA 300
ALKALINITY	19	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	456	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.4	SW846 9060A
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2.5	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.
T Please indicate detection limit if analyte is not detected.
** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4). Remaining quarterly samples only require total metals analysis.

I.D. No	101389
Monitoring Point No.	FFMP02SW
Sample Date	8/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE[T]	ANALYSIS METHOD NUMBER
BENZENE	1 ND	SW846 8260B
1,2-DIBROMOETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1 ND	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
CIS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
TRANS 1,2-DICHLOROETHENE	1 ND	SW846 8260B
ETHYLBENZENE	1 ND	SW846 8260B
METHYLENE CHLORIDE	1 ND	SW846 8260B
TETRACHLOROETHENE	1 ND	SW846 8260B
TOLUENE	1 ND	SW846 8260B
1,1,1-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROETHENE	1 ND	SW846 8260B
VINYL CHLORIDE	1 ND	SW846 8260B
XYLENES (TOTAL)	3 ND	SW846 8260B

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 3RD QTR 2025 GWMP-FORM 19Q
Workorder 3429813
Report ID 453364 on 8/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Aug 08, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3429813001	FFMP031W	Ground Water	08/08/2025 12:43	08/08/2025 17:50	EMP	ALS Environmental-Middletown
3429813002	FFMP002W	Ground Water	08/08/2025 11:44	08/08/2025 17:50	EMP	ALS Environmental-Middletown
3429813003	FFMP032W	Ground Water	08/08/2025 14:54	08/08/2025 17:50	EMP	ALS Environmental-Middletown
3429813004	FFMP02SW	Ground Water	08/08/2025 16:46	08/08/2025 17:50	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-15 was outside the control limits for the analyte Total Dissolved Solids. The RPD was reported as 5.34 and the upper control limit is 5.
4	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 66.6 and the control limits were 80 to 120.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 55.5 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	FFMP031W	Collected	08/08/2025 12:43
Lab Sample ID	3429813001	Lab Receipt	08/08/2025 17:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	63.96	Feet		Field	#
Dissolved Oxygen	0.27	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	612.66	Feet		Field	#
Flow Rate	0.08	gal/min		Field	#
Ground Water Elevation	548.70	ft/MSL		Field	#
Oxidation-Reduction Potential	46	mV		Field	#
pH, Field (SM4500B)	7.50	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	428	umhos/cm	1	Field	#
Temperature	15.50	Deg. C		Field	#
Total Well Depth	142.70	Feet		Field	#
Turbidity, Field	30	NTU	1	Field	#
Volume in Water Column	115.75	Gallons		Field	#
Water Level After Purge	69.92	Feet		Field	#
Well Volumes Purged	0.08	Vol		Field	#
METALS					
Calcium, Total	73.2	mg/L	0.11	SW846 6010C	#
Iron, Total	1.2	mg/L	0.067	SW846 6010C	#
Magnesium, Total	4.8	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.48	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.6	mg/L	0.56	SW846 6010C	#
Sodium, Total	9.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	125	mg/L	5	SM2320B-2011	#
Alkalinity, Total	131	mg/L	5	SM2320B-2011	#
Chloride	21.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.5	mg/L	1.0	EPA 300.0	#
pH	8.29	pH_Units		S4500HB-11	#
Specific Conductance	430	umhos/cm	5	SW846 9050A	#
Sulfate	48.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	328	mg/L	25	SM2540C-15	#
Turbidity	8.3	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP002W	Collected	08/08/2025 11:44
Lab Sample ID	3429813002	Lab Receipt	08/08/2025 17:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	55.58	Feet		Field	#
Dissolved Oxygen	6.40	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	613.20	Feet		Field	#
Flow Rate	0.08	gal/min		Field	#
Ground Water Elevation	557.62	ft/MSL		Field	#
Oxidation-Reduction Potential	349	mV		Field	#
pH, Field (SM4500B)	4.63	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	240	umhos/cm	1	Field	#
Temperature	15.38	Deg. C		Field	#
Total Well Depth	90.02	Feet		Field	#
Turbidity, Field	70	NTU	1	Field	#
Volume in Water Column	50.63	Gallons		Field	#
Water Level After Purge	62.18	Feet		Field	#
Well Volumes Purged	0.19	Vol		Field	#
METALS					
Calcium, Total	16.9	mg/L	0.11	SW846 6010C	#
Iron, Total	0.075	mg/L	0.067	SW846 6010C	#
Magnesium, Total	7.0	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.22	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.8	mg/L	0.56	SW846 6010C	#
Sodium, Total	14.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Chloride	15.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	17.2	mg/L	1.0	EPA 300.0	#
pH	6.12	pH_Units		S4500HB-11	#
Phenolics	0.006	mg/L	0.004	SW846 9066	#
Specific Conductance	238	umhos/cm	5	SW846 9050A	#
Sulfate	11.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	232	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.54	mg/L	0.50	SW846 9060A	#
Turbidity	0.45	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP032W	Collected	08/08/2025 14:54
Lab Sample ID	3429813003	Lab Receipt	08/08/2025 17:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	49.30	Feet		Field	#
Dissolved Oxygen	0.16	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	594.09	Feet		Field	#
Flow Rate	0.08	gal/min		Field	#
Ground Water Elevation	544.79	ft/MSL		Field	#
Oxidation-Reduction Potential	-72	mV		Field	#
pH, Field (SM4500B)	6.65	pH_Units		Field	#
Sample Depth	62.00	Feet		Field	#
Specific Conductance, Field	253	umhos/cm	1	Field	#
Temperature	15.35	Deg. C		Field	#
Total Well Depth	77.60	Feet		Field	#
Turbidity, Field	7	NTU	1	Field	#
Volume in Water Column	41.60	Gallons		Field	#
Water Level After Purge	53.39	Feet		Field	#
Well Volumes Purged	0.15	Vol		Field	#
METALS					
Calcium, Total	20.4	mg/L	0.11	SW846 6010C	#
Iron, Total	5.7	mg/L	0.067	SW846 6010C	#
Magnesium, Total	7.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.76	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.0	mg/L	0.56	SW846 6010C	#
Sodium, Total	14.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	67	mg/L	5	SM2320B-2011	#
Alkalinity, Total	67	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	1.26	mg/L	0.10	SM 4500-NH3G	#
Chloride	33.9	mg/L	2.0	EPA 300.0	#
pH	8.13	pH_Units		S4500HB-11	#
Specific Conductance	243	umhos/cm	5	SW846 9050A	#
Total Dissolved Solids	275	mg/L	25	SM2540C-15	#
Turbidity	40	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP02SW	Collected	08/08/2025 16:46
Lab Sample ID	3429813004	Lab Receipt	08/08/2025 17:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	14.48	Feet		Field	#
Dissolved Oxygen	3.28	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	509.90	Feet		Field	#
Flow Rate	0.08	gal/min		Field	#
Ground Water Elevation	495.42	ft/MSL		Field	#
Oxidation-Reduction Potential	243	mV		Field	#
pH, Field (SM4500B)	5.21	pH_Units		Field	#
Sample Depth	18.00	Feet		Field	#
Specific Conductance, Field	671	umhos/cm	1	Field	#
Temperature	16.98	Deg. C		Field	#
Total Well Depth	22.70	Feet		Field	#
Turbidity, Field	13	NTU	1	Field	#
Volume in Water Column	5.34	Gallons		Field	#
Water Level After Purge	15.74	Feet		Field	#
Well Volumes Purged	1.78	Vol		Field	#
METALS					
Calcium, Total	28.7	mg/L	0.11	SW846 6010C	#
Iron, Total	0.14	mg/L	0.067	SW846 6010C	#
Magnesium, Total	9.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.030	mg/L	0.0056	SW846 6010C	#
Potassium, Total	4.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	81.7	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	19	mg/L	5	SM2320B-2011	#
Alkalinity, Total	19	mg/L	5	SM2320B-2011	#
Chloride	135	mg/L	2.0	EPA 300.0	#
Nitrate-N	9.6	mg/L	1.0	EPA 300.0	#
pH	7.39	pH_Units		S4500HB-11	#
Specific Conductance	658	umhos/cm	5	SW846 9050A	#
Sulfate	47.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	456	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.4	mg/L	0.50	SW846 9060A	#
Turbidity	2.5	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	FFMP031W	Collected	08/08/2025 12:43
Lab Sample ID	3429813001	Lab Receipt	08/08/2025 17:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	63.96		Feet		Field	1	08/08/2025 12:43	EMP	D
Dissolved Oxygen	0.27		mg/L	0.01	Field	1	08/08/2025 12:43	EMP	D
Elev Top MW Casing above MSL	612.66		Feet		Field	1	08/08/2025 12:43	EMP	D
Flow Rate	0.08		gal/min		Field	1	08/08/2025 12:43	EMP	D
Ground Water Elevation	548.70		ft/MSL		Field	1	08/08/2025 12:43	EMP	D
Oxidation-Reduction Potential	46		mV		Field	1	08/08/2025 12:43	EMP	D
pH, Field (SM4500B)	7.50		pH_Units		Field	1	08/08/2025 12:43	EMP	D
Sample Depth	130.00		Feet		Field	1	08/08/2025 12:43	EMP	D
Specific Conductance, Field	428		umhos/cm	1	Field	1	08/08/2025 12:43	EMP	D
Temperature	15.50		Deg. C		Field	1	08/08/2025 12:43	EMP	D
Total Well Depth	142.70		Feet		Field	1	08/08/2025 12:43	EMP	D
Turbidity, Field	30		NTU	1	Field	1	08/08/2025 12:43	EMP	D
Volume in Water Column	115.75		Gallons		Field	1	08/08/2025 12:43	EMP	D
Water Level After Purge	69.92		Feet		Field	1	08/08/2025 12:43	EMP	D
Well Volumes Purged	0.08		Vol		Field	1	08/08/2025 12:43	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	73.2		mg/L	0.11	SW846 6010C	1	08/15/2025 16:29	MSY	J1
Iron, Total	1.2		mg/L	0.067	SW846 6010C	1	08/15/2025 16:29	MSY	J1
Magnesium, Total	4.8		mg/L	0.11	SW846 6010C	1	08/15/2025 16:29	MSY	J1
Manganese, Total	0.48		mg/L	0.0056	SW846 6010C	1	08/15/2025 16:29	MSY	J1
Potassium, Total	1.6		mg/L	0.56	SW846 6010C	1	08/15/2025 16:29	MSY	J1
Sodium, Total	9.5		mg/L	0.56	SW846 6010C	1	08/15/2025 16:29	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:08	IXK	H

Results

Client Sample ID	FFMP031W	Collected	08/08/2025 12:43
Lab Sample ID	3429813001	Lab Receipt	08/08/2025 17:50

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	08/17/2025 17:08	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	08/17/2025 17:08	
Dibromofluoromethane	1868-53-7	98.3%	78 – 116	08/17/2025 17:08	
Toluene-d8	2037-26-5	102%	76 – 127	08/17/2025 17:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	125		mg/L	5	SM2320B-2011	1	08/15/2025 23:17	JXK	B
Alkalinity, Total	131	1	mg/L	5	SM2320B-2011	1	08/15/2025 23:17	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/12/2025 14:04	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/12/2025 10:41	KMS	A
Chloride	21.9		mg/L	2.0	EPA 300.0	2	08/09/2025 10:42	DMG	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/09/2025 10:42	DMG	B
Nitrate-N	1.5		mg/L	1.0	EPA 300.0	2	08/09/2025 10:42	DMG	B
pH	8.29	2	pH_Units		S4500HB-11	1	08/15/2025 23:17	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/21/2025 21:03	AKH	G
Specific Conductance	430		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	48.6		mg/L	2.0	EPA 300.0	2	08/09/2025 10:42	DMG	B
Total Dissolved Solids	328	3	mg/L	25	SM2540C-15	1	08/13/2025 15:15	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/19/2025 04:07	PAG	E
Turbidity	8.3		NTU	0.30	SM2130B-2011	1	08/09/2025 10:54	GED	B

Results

Client Sample ID	FFMP002W	Collected	08/08/2025 11:44
Lab Sample ID	3429813002	Lab Receipt	08/08/2025 17:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	55.58		Feet		Field	1	08/08/2025 13:44	EMP	D
Dissolved Oxygen	6.40		mg/L	0.01	Field	1	08/08/2025 13:44	EMP	D
Elev Top MW Casing above MSL	613.20		Feet		Field	1	08/08/2025 13:44	EMP	D
Flow Rate	0.08		gal/min		Field	1	08/08/2025 13:44	EMP	D
Ground Water Elevation	557.62		ft/MSL		Field	1	08/08/2025 13:44	EMP	D
Oxidation-Reduction Potential	349		mV		Field	1	08/08/2025 13:44	EMP	D
pH, Field (SM4500B)	4.63		pH_Units		Field	1	08/08/2025 13:44	EMP	D
Sample Depth	85.00		Feet		Field	1	08/08/2025 13:44	EMP	D
Specific Conductance, Field	240		umhos/cm	1	Field	1	08/08/2025 13:44	EMP	D
Temperature	15.38		Deg. C		Field	1	08/08/2025 13:44	EMP	D
Total Well Depth	90.02		Feet		Field	1	08/08/2025 13:44	EMP	D
Turbidity, Field	70		NTU	1	Field	1	08/08/2025 13:44	EMP	D
Volume in Water Column	50.63		Gallons		Field	1	08/08/2025 13:44	EMP	D
Water Level After Purge	62.18		Feet		Field	1	08/08/2025 13:44	EMP	D
Well Volumes Purged	0.19		Vol		Field	1	08/08/2025 13:44	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	16.9		mg/L	0.11	SW846 6010C	1	08/15/2025 16:03	MSY	J1
Iron, Total	0.075		mg/L	0.067	SW846 6010C	1	08/15/2025 16:03	MSY	J1
Magnesium, Total	7.0		mg/L	0.11	SW846 6010C	1	08/15/2025 16:03	MSY	J1
Manganese, Total	0.22		mg/L	0.0056	SW846 6010C	1	08/15/2025 16:03	MSY	J1
Potassium, Total	1.8		mg/L	0.56	SW846 6010C	1	08/15/2025 16:03	MSY	J1
Sodium, Total	14.5		mg/L	0.56	SW846 6010C	1	08/15/2025 16:03	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:28	IXK	H

Results

Client Sample ID	FFMP002W	Collected	08/08/2025 11:44
Lab Sample ID	3429813002	Lab Receipt	08/08/2025 17:50

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	08/17/2025 17:28	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	08/17/2025 17:28	
Dibromofluoromethane	1868-53-7	95.8%	78 – 116	08/17/2025 17:28	
Toluene-d8	2037-26-5	98.9%	76 – 127	08/17/2025 17:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	08/15/2025 23:29	JXK	B
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	08/15/2025 23:29	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/12/2025 14:07	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/12/2025 10:41	KMS	A
Chloride	15.8		mg/L	2.0	EPA 300.0	2	08/09/2025 10:30	DMG	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/09/2025 10:30	DMG	B
Nitrate-N	17.2		mg/L	1.0	EPA 300.0	2	08/09/2025 10:30	DMG	B
pH	6.12	2	pH_Units		S4500HB-11	1	08/15/2025 23:29	JXK	B
Phenolics	0.006		mg/L	0.004	SW846 9066	1	08/19/2025 15:31	AKH	G
Specific Conductance	238		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	11.9		mg/L	2.0	EPA 300.0	2	08/09/2025 10:30	DMG	B
Total Dissolved Solids	232		mg/L	25	SM2540C-15	1	08/13/2025 15:15	RAG	B
Total Organic Carbon (TOC)	0.54		mg/L	0.50	SW846 9060A	1	08/19/2025 04:07	PAG	E
Turbidity	0.45		NTU	0.30	SM2130B-2011	1	08/09/2025 10:54	GED	B

Results

Client Sample ID	FFMP032W	Collected	08/08/2025 14:54
Lab Sample ID	3429813003	Lab Receipt	08/08/2025 17:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	49.30		Feet		Field	1	08/08/2025 14:54	EMP	D
Dissolved Oxygen	0.16		mg/L	0.01	Field	1	08/08/2025 14:54	EMP	D
Elev Top MW Casing above MSL	594.09		Feet		Field	1	08/08/2025 14:54	EMP	D
Flow Rate	0.08		gal/min		Field	1	08/08/2025 14:54	EMP	D
Ground Water Elevation	544.79		ft/MSL		Field	1	08/08/2025 14:54	EMP	D
Oxidation-Reduction Potential	-72		mV		Field	1	08/08/2025 14:54	EMP	D
pH, Field (SM4500B)	6.65		pH_Units		Field	1	08/08/2025 14:54	EMP	D
Sample Depth	62.00		Feet		Field	1	08/08/2025 14:54	EMP	D
Specific Conductance, Field	253		umhos/cm	1	Field	1	08/08/2025 14:54	EMP	D
Temperature	15.35		Deg. C		Field	1	08/08/2025 14:54	EMP	D
Total Well Depth	77.60		Feet		Field	1	08/08/2025 14:54	EMP	D
Turbidity, Field	7		NTU	1	Field	1	08/08/2025 14:54	EMP	D
Volume in Water Column	41.60		Gallons		Field	1	08/08/2025 14:54	EMP	D
Water Level After Purge	53.39		Feet		Field	1	08/08/2025 14:54	EMP	D
Well Volumes Purged	0.15		Vol		Field	1	08/08/2025 14:54	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	20.4		mg/L	0.11	SW846 6010C	1	08/15/2025 16:05	MSY	J1
Iron, Total	5.7		mg/L	0.067	SW846 6010C	1	08/15/2025 16:05	MSY	J1
Magnesium, Total	7.4		mg/L	0.11	SW846 6010C	1	08/15/2025 16:05	MSY	J1
Manganese, Total	0.76		mg/L	0.0056	SW846 6010C	1	08/15/2025 16:05	MSY	J1
Potassium, Total	2.0		mg/L	0.56	SW846 6010C	1	08/15/2025 16:05	MSY	J1
Sodium, Total	14.5		mg/L	0.56	SW846 6010C	1	08/15/2025 16:05	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 17:48	IXK	H

Results

Client Sample ID	FFMP032W	Collected	08/08/2025 14:54
Lab Sample ID	3429813003	Lab Receipt	08/08/2025 17:50

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	08/17/2025 17:48	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	08/17/2025 17:48	
Dibromofluoromethane	1868-53-7	94.5%	78 – 116	08/17/2025 17:48	
Toluene-d8	2037-26-5	101%	76 – 127	08/17/2025 17:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	67		mg/L	5	SM2320B-2011	1	08/15/2025 23:41	JXK	B
Alkalinity, Total	67	1	mg/L	5	SM2320B-2011	1	08/15/2025 23:41	JXK	B
Ammonia-N, Low Level	1.26		mg/L	0.10	SM 4500-NH3G	1	08/12/2025 14:25	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/12/2025 10:41	KMS	A
Chloride	33.9		mg/L	2.0	EPA 300.0	2	08/09/2025 10:53	DMG	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/09/2025 10:53	DMG	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	08/09/2025 10:53	DMG	B
pH	8.13	2	pH_Units		S4500HB-11	1	08/15/2025 23:41	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/19/2025 15:01	AKH	G
Specific Conductance	243		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	08/09/2025 10:53	DMG	B
Total Dissolved Solids	275		mg/L	25	SM2540C-15	1	08/13/2025 15:15	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/19/2025 04:07	PAG	E
Turbidity	40		NTU	0.30	SM2130B-2011	1	08/09/2025 10:54	GED	B

Results

Client Sample ID	FFMP02SW	Collected	08/08/2025 16:46
Lab Sample ID	3429813004	Lab Receipt	08/08/2025 17:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	14.48		Feet		Field	1	08/08/2025 16:46	EMP	D
Dissolved Oxygen	3.28		mg/L	0.01	Field	1	08/08/2025 16:46	EMP	D
Elev Top MW Casing above MSL	509.90		Feet		Field	1	08/08/2025 16:46	EMP	D
Flow Rate	0.08		gal/min		Field	1	08/08/2025 16:46	EMP	D
Ground Water Elevation	495.42		ft/MSL		Field	1	08/08/2025 16:46	EMP	D
Oxidation-Reduction Potential	243		mV		Field	1	08/08/2025 16:46	EMP	D
pH, Field (SM4500B)	5.21		pH_Units		Field	1	08/08/2025 16:46	EMP	D
Sample Depth	18.00		Feet		Field	1	08/08/2025 16:46	EMP	D
Specific Conductance, Field	671		umhos/cm	1	Field	1	08/08/2025 16:46	EMP	D
Temperature	16.98		Deg. C		Field	1	08/08/2025 16:46	EMP	D
Total Well Depth	22.70		Feet		Field	1	08/08/2025 16:46	EMP	D
Turbidity, Field	13		NTU	1	Field	1	08/08/2025 16:46	EMP	D
Volume in Water Column	5.34		Gallons		Field	1	08/08/2025 16:46	EMP	D
Water Level After Purge	15.74		Feet		Field	1	08/08/2025 16:46	EMP	D
Well Volumes Purged	1.78		Vol		Field	1	08/08/2025 16:46	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	28.7		mg/L	0.11	SW846 6010C	1	08/15/2025 16:07	MSY	J1
Iron, Total	0.14		mg/L	0.067	SW846 6010C	1	08/15/2025 16:07	MSY	J1
Magnesium, Total	9.9		mg/L	0.11	SW846 6010C	1	08/15/2025 16:07	MSY	J1
Manganese, Total	0.030		mg/L	0.0056	SW846 6010C	1	08/15/2025 16:07	MSY	J1
Potassium, Total	4.3		mg/L	0.56	SW846 6010C	1	08/15/2025 16:07	MSY	J1
Sodium, Total	81.7		mg/L	0.56	SW846 6010C	1	08/15/2025 16:07	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/17/2025 18:08	IXK	H

Results

Client Sample ID	FFMP02SW	Collected	08/08/2025 16:46
Lab Sample ID	3429813004	Lab Receipt	08/08/2025 17:50

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	08/17/2025 18:08	
4-Bromofluorobenzene	460-00-4	99.6%	79 – 114	08/17/2025 18:08	
Dibromofluoromethane	1868-53-7	94.6%	78 – 116	08/17/2025 18:08	
Toluene-d8	2037-26-5	99.3%	76 – 127	08/17/2025 18:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	19		mg/L	5	SM2320B-2011	1	08/16/2025 00:30	JXK	B
Alkalinity, Total	19	1	mg/L	5	SM2320B-2011	1	08/16/2025 00:30	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/12/2025 14:28	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/12/2025 10:41	KMS	A
Chloride	135	4,5	mg/L	2.0	EPA 300.0	2	08/09/2025 11:04	DMG	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/09/2025 11:04	DMG	B
Nitrate-N	9.6		mg/L	1.0	EPA 300.0	2	08/09/2025 11:04	DMG	B
pH	7.39	2	pH_Units		S4500HB-11	1	08/16/2025 00:30	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/19/2025 15:21	AKH	G
Specific Conductance	658		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	47.1		mg/L	2.0	EPA 300.0	2	08/09/2025 11:04	DMG	B
Total Dissolved Solids	456		mg/L	25	SM2540C-15	1	08/13/2025 15:15	RAG	B
Total Organic Carbon (TOC)	1.4		mg/L	0.50	SW846 9060A	1	08/19/2025 04:07	PAG	E
Turbidity	2.5		NTU	0.30	SM2130B-2011	1	08/09/2025 10:54	GED	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3429813001	FFMP031W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429813002	FFMP002W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429813003	FFMP032W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429813004	FFMP02SW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3429813001	FFMP031W	N/A	N/A	N/A		Field	1461955
		SW846 3015A	1460609	08/14/2025 11:10	RMH	SW846 6010C	1460893
		N/A	N/A	N/A		SW846 8260B	1461064
		N/A	N/A	N/A		EPA 300.0	1459380
		N/A	N/A	N/A		EPA 410.4	1460148
		N/A	N/A	N/A		S4500HB-11	1460709
		N/A	N/A	N/A		SM 4500-NH3G	1460162
		N/A	N/A	N/A		SM2130B-2011	1459546
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1460412
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1461310
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1462095
3429813002	FFMP002W	N/A	N/A	N/A		Field	1461955
		SW846 3015A	1460609	08/14/2025 11:10	RMH	SW846 6010C	1460893
		N/A	N/A	N/A		SW846 8260B	1461064
		N/A	N/A	N/A		EPA 300.0	1459380
		N/A	N/A	N/A		EPA 410.4	1460148
		N/A	N/A	N/A		S4500HB-11	1460709
		N/A	N/A	N/A		SM 4500-NH3G	1460162
		N/A	N/A	N/A		SM2130B-2011	1459546
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1460412
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1461310
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429813003	FFMP032W	N/A	N/A	N/A		Field	1461955
		SW846 3015A	1460609	08/14/2025 11:10	RMH	SW846 6010C	1460893
		N/A	N/A	N/A		SW846 8260B	1461064
		N/A	N/A	N/A		EPA 300.0	1459380
		N/A	N/A	N/A		EPA 410.4	1460148
		N/A	N/A	N/A		S4500HB-11	1460709
		N/A	N/A	N/A		SM 4500-NH3G	1460162
		N/A	N/A	N/A		SM2130B-2011	1459546
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1460412
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1461313
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429813004	FFMP02SW	N/A	N/A	N/A		Field	1461955
		SW846 3015A	1460609	08/14/2025 11:10	RMH	SW846 6010C	1460893
		N/A	N/A	N/A		SW846 8260B	1461064
		N/A	N/A	N/A		EPA 300.0	1459380
		N/A	N/A	N/A		EPA 410.4	1460148
		N/A	N/A	N/A		S4500HB-11	1460709
		N/A	N/A	N/A		SM 4500-NH3G	1460162
		N/A	N/A	N/A		SM2130B-2011	1459546
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1460412
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1461313
		SW846 9066	1461233	08/18/2025 10:47	AKH	SW846 9066	1461237

ALS
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.

3429813

Logged By: SLS
PM: SJB

813 of

(Completed by Receiving Lab)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Frey Farm Quarterly GWMP
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

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

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	O-OH	VOC Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, Bicarbonate	FM	Sample Debth for AUX Data	NH3-N, COD	Metals Fe,Mn,Na,Ca,K,Mg
	Enter Number of Containers Per Sample or Field Results Below.														
1	FFMP03IW	8.8.25	1243		G	GW	2	1	3	1	1	x	x	1	2
2	FFMP02aW	8.8.25	1144												
3	FFMP03aW	8.8.25	1454												
4	FFMP02SW	8.8.25	1646												
5															
6															
7															
8															
9															
10															

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
8.8.25	1750	1	ALS	2	MRTS
		3		4	
		5		6	
		7		8	
		9		10	

Temp Taken By: Therm ID: 509 WO Temp (°C)

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

WV Containers 0-6°C 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

MP
8/9/25

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

* 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

right solutions. right partner.

Middletown Sample Condition Form

Client: lancaster county solid waste Workorder: 3429813

Temp °C: 1 Therm ID: 569 Ice? (Y) N N/A Initials & Date: MP 8/11/25

Fedex UPS Client (ALS) Other Tracking #:

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement				
•Sample location		✓		
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		UC
•Composite or grab		✓		UC
•Matrix		✓		UC
Proper containers, preservation, and volume per method		✓		UC
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:

_____

_____

_____

8/27/2025 10:47 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 3RD QTR 2025 GWMP-FORM 19Q
Workorder 3429266
Report ID 451121 on 8/21/2025

Certificate of Analysis

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

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3429266001	FFMP02DW	Ground Water	08/06/2025 09:29	08/06/2025 16:40	EMP	ALS Environmental-Middletown
3429266002	FFMP26RW	Ground Water	08/06/2025 11:40	08/06/2025 16:40	EMP	ALS Environmental-Middletown
3429266003	FFMP005W	Ground Water	08/06/2025 12:08	08/06/2025 16:40	EMP	ALS Environmental-Middletown
3429266004	FFMP035W	Ground Water	08/06/2025 14:08	08/06/2025 16:40	EMP	ALS Environmental-Middletown
3429266005	FFMP036W	Ground Water	08/06/2025 14:31	08/06/2025 16:40	EMP	ALS Environmental-Middletown
3429266006	TRIP BLANK	Water	08/06/2025 14:31	08/06/2025 16:40	EMP	ALS Environmental-Middletown

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The Method Blank for method SM2320B-2011 reported a value greater than the reporting level for the analyte Alkalinity, Total. The concentration was 13.6
3	The Method Blank for method SM2320B-2011 reported a value greater than the reporting level for the analyte Alkalinity, Total. The concentration was 10
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The QC sample type STD 10 for method S4500HB-11 was outside the control limits for the analyte pH. The % Recovery was reported as 99.9 and the control limits were 100 to 101.
6	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 48.8 and the control limits were 80 to 120.
7	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 66.4 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	FFMP02DW	Collected	08/06/2025 09:29
Lab Sample ID	3429266001	Lab Receipt	08/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	25.45	Feet		Field	#
Elev Top MW Casing above MSL	509.60	Feet		Field	#
Flow Rate	1.97	gal/min		Field	#
Ground Water Elevation	484.15	ft/MSL		Field	#
Oxidation-Reduction Potential	-38	mV		Field	#
pH, Field (SM4500B)	7.40	pH_Units		Field	#
Sample Depth	120.00	Feet		Field	#
Specific Conductance, Field	1526	umhos/cm	1	Field	#
Temperature	17.82	Deg. C		Field	#
Total Well Depth	153.00	Feet		Field	#
Turbidity, Field	15	NTU	1	Field	#
Volume in Water Column	187.50	Gallons		Field	#
Water Level After Purge	77.45	Feet		Field	#
Well Volumes Purged	1.01	Vol		Field	#
METALS					
Calcium, Total	129	mg/L	0.11	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	SW846 6010C	#
Magnesium, Total	19.8	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.15	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	138	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	127	mg/L	5	SM2320B-2011	#
Alkalinity, Total	128	mg/L	5	SM2320B-2011	#
Chloride	341	mg/L	5.0	EPA 300.0	#
Nitrate-N	6.2	mg/L	2.5	EPA 300.0	#
pH	8.29	pH_Units		S4500HB-11	#
Phenolics	0.03	mg/L	0.004	SW846 9066	#
Specific Conductance	1540	umhos/cm	5	SW846 9050A	#
Sulfate	40.7	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1080	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.0	mg/L	0.50	SW846 9060A	#
Turbidity	9.1	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP26RW	Collected	08/06/2025 11:40
Lab Sample ID	3429266002	Lab Receipt	08/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	71.34	Feet		Field	#
Dissolved Oxygen	0.70	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	547.40	Feet		Field	#
Flow Rate	1.30	gal/min		Field	#
Ground Water Elevation	476.06	ft/MSL		Field	#
Oxidation-Reduction Potential	302	mV		Field	#
pH, Field (SM4500B)	5.34	pH_Units		Field	#
Sample Depth	105.00	Feet		Field	#
Specific Conductance, Field	785	umhos/cm	1	Field	#
Temperature	14.90	Deg. C		Field	#
Total Well Depth	118.30	Feet		Field	#
Volume in Water Column	69.03	Gallons		Field	#
Water Level After Purge	81.15	Feet		Field	#
Well Volumes Purged	1.22	Vol		Field	#
METALS					
Calcium, Total	70.2	mg/L	0.11	SW846 6010C	#
Magnesium, Total	17.0	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.58	mg/L	0.0056	SW846 6010C	#
Potassium, Total	8.2	mg/L	0.56	SW846 6010C	#
Sodium, Total	55.3	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	67	mg/L	5	SM2320B-2011	#
Alkalinity, Total	67	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	2.58	mg/L	0.10	SM 4500-NH3G	#
Chloride	134	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.6	mg/L	1.0	EPA 300.0	#
pH	7.82	pH_Units		S4500HB-11	#
Phenolics	0.007	mg/L	0.004	SW846 9066	#
Specific Conductance	795	umhos/cm	5	SW846 9050A	#
Sulfate	94.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	502	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.1	mg/L	0.50	SW846 9060A	#
Turbidity	0.35	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP005W	Collected	08/06/2025 12:08
Lab Sample ID	3429266003	Lab Receipt	08/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	61.80	Feet		Field	#
Dissolved Oxygen	0.71	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	537.40	Feet		Field	#
Flow Rate	1.86	gal/min		Field	#
Ground Water Elevation	475.60	ft/MSL		Field	#
Oxidation-Reduction Potential	235	mV		Field	#
pH, Field (SM4500B)	5.70	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	836	umhos/cm	1	Field	#
Temperature	13.99	Deg. C		Field	#
Total Well Depth	149.70	Feet		Field	#
Volume in Water Column	129.21	Gallons		Field	#
Water Level After Purge	83.70	Feet		Field	#
Well Volumes Purged	1.44	Vol		Field	#
METALS					
Calcium, Total	78.9	mg/L	0.11	SW846 6010C	#
Magnesium, Total	19.0	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.15	mg/L	0.0056	SW846 6010C	#
Potassium, Total	3.2	mg/L	0.56	SW846 6010C	#
Sodium, Total	53.8	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	65	mg/L	5	SM2320B-2011	#
Alkalinity, Total	65	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.83	mg/L	0.10	SM 4500-NH3G	#
Chloride	154	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.9	mg/L	1.0	EPA 300.0	#
pH	7.82	pH_Units		S4500HB-11	#
Phenolics	0.004	mg/L	0.004	SW846 9066	#
Specific Conductance	846	umhos/cm	5	SW846 9050A	#
Sulfate	77.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	568	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.8	mg/L	0.50	SW846 9060A	#
Turbidity	0.40	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP035W	Collected	08/06/2025 14:08
Lab Sample ID	3429266004	Lab Receipt	08/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	42.66	Feet		Field	#
Dissolved Oxygen	6.38	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	477.56	Feet		Field	#
Flow Rate	0.64	gal/min		Field	#
Ground Water Elevation	434.90	ft/MSL		Field	#
Oxidation-Reduction Potential	170	mV		Field	#
pH, Field (SM4500B)	6.62	pH_Units		Field	#
Sample Depth	65.00	Feet		Field	#
Specific Conductance, Field	392	umhos/cm	1	Field	#
Temperature	19.38	Deg. C		Field	#
Total Well Depth	71.80	Feet		Field	#
Turbidity, Field	3	NTU	1	Field	#
Volume in Water Column	42.84	Gallons		Field	#
Water Level After Purge	55.39	Feet		Field	#
Well Volumes Purged	1.05	Vol		Field	#
METALS					
Calcium, Total	37.3	mg/L	0.11	SW846 6010C	#
Iron, Total	0.074	mg/L	0.067	SW846 6010C	#
Magnesium, Total	9.8	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.0069	mg/L	0.0056	SW846 6010C	#
Potassium, Total	3.1	mg/L	0.56	SW846 6010C	#
Sodium, Total	23.3	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	53	mg/L	5	SM2320B-2011	#
Alkalinity, Total	53	mg/L	5	SM2320B-2011	#
Chloride	43.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	4.9	mg/L	1.0	EPA 300.0	#
pH	7.91	pH_Units		S4500HB-11	#
Specific Conductance	398	umhos/cm	5	SW846 9050A	#
Sulfate	45.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	228	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.5	mg/L	0.50	SW846 9060A	#
Turbidity	1.7	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP036W	Collected	08/06/2025 14:31
Lab Sample ID	3429266005	Lab Receipt	08/06/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	48.82	Feet		Field	#
Elev Top MW Casing above MSL	478.23	Feet		Field	#
Flow Rate	1.50	gal/min		Field	#
Ground Water Elevation	429.41	ft/MSL		Field	#
Oxidation-Reduction Potential	-257	mV		Field	#
pH, Field (SM4500B)	8.37	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	356	umhos/cm	1	Field	#
Temperature	18.08	Deg. C		Field	#
Total Well Depth	142.60	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	137.86	Gallons		Field	#
Water Level After Purge	85.73	Feet		Field	#
Well Volumes Purged	1.03	Vol		Field	#
METALS					
Calcium, Total	49.7	mg/L	0.11	SW846 6010C	#
Iron, Total	1.6	mg/L	0.067	SW846 6010C	#
Magnesium, Total	5.1	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.14	mg/L	0.0056	SW846 6010C	#
Potassium, Total	0.84	mg/L	0.56	SW846 6010C	#
Sodium, Total	16.1	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	95	mg/L	5	SM2320B-2011	#
Alkalinity, Total	98	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.56	mg/L	0.10	SM 4500-NH3G	#
Chloride	32.3	mg/L	2.0	EPA 300.0	#
Fluoride	0.26	mg/L	0.20	EPA 300.0	#
pH	8.35	pH_Units		S4500HB-11	#
Phenolics	0.005	mg/L	0.004	SW846 9066	#
Specific Conductance	356	umhos/cm	5	SW846 9050A	#
Sulfate	26.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	220	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.56	mg/L	0.50	SW846 9060A	#
Turbidity	13	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	FFMP02DW	Collected	08/06/2025 09:29
Lab Sample ID	3429266001	Lab Receipt	08/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	25.45		Feet		Field	1	08/06/2025 09:30	EMP	D
Dissolved Oxygen	ND	ND	mg/L	0.01	Field	1	08/06/2025 09:30	EMP	D
Elev Top MW Casing above MSL	509.60		Feet		Field	1	08/06/2025 09:30	EMP	D
Flow Rate	1.97		gal/min		Field	1	08/06/2025 09:30	EMP	D
Ground Water Elevation	484.15		ft/MSL		Field	1	08/06/2025 09:30	EMP	D
Oxidation-Reduction Potential	-38		mV		Field	1	08/06/2025 09:30	EMP	D
pH, Field (SM4500B)	7.40		pH_Units		Field	1	08/06/2025 09:30	EMP	D
Sample Depth	120.00		Feet		Field	1	08/06/2025 09:30	EMP	D
Specific Conductance, Field	1526		umhos/cm	1	Field	1	08/06/2025 09:30	EMP	D
Temperature	17.82		Deg. C		Field	1	08/06/2025 09:30	EMP	D
Total Well Depth	153.00		Feet		Field	1	08/06/2025 09:30	EMP	D
Turbidity, Field	15		NTU	1	Field	1	08/06/2025 09:30	EMP	D
Volume in Water Column	187.50		Gallons		Field	1	08/06/2025 09:30	EMP	D
Water Level After Purge	77.45		Feet		Field	1	08/06/2025 09:30	EMP	D
Well Volumes Purged	1.01		Vol		Field	1	08/06/2025 09:30	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	129		mg/L	0.11	SW846 6010C	1	08/13/2025 12:48	MSY	J1
Iron, Total	1.0		mg/L	0.067	SW846 6010C	1	08/13/2025 12:48	MSY	J1
Magnesium, Total	19.8		mg/L	0.11	SW846 6010C	1	08/13/2025 12:48	MSY	J1
Manganese, Total	0.15		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:48	MSY	J1
Potassium, Total	1.3		mg/L	0.56	SW846 6010C	1	08/13/2025 12:48	MSY	J1
Sodium, Total	138		mg/L	0.56	SW846 6010C	1	08/13/2025 12:48	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 01:14	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:14	BST	H

Results

Client Sample ID	FFMP02DW	Collected	08/06/2025 09:29
Lab Sample ID	3429266001	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	08/14/2025 01:14	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	08/14/2025 01:14	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	08/14/2025 01:14	
Toluene-d8	2037-26-5	102%	76 – 127	08/14/2025 01:14	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	127		mg/L	5	SM2320B-2011	1	08/14/2025 08:25	JXK	B
Alkalinity, Total	128	1,2,3	mg/L	5	SM2320B-2011	1	08/14/2025 08:25	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/11/2025 18:12	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	341		mg/L	5.0	EPA 300.0	5	08/07/2025 13:10	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	08/07/2025 13:10	J1W	B
Nitrate-N	6.2		mg/L	2.5	EPA 300.0	5	08/07/2025 13:10	J1W	B
pH	8.29	4,5	pH_Units		S4500HB-11	1	08/14/2025 08:25	JXK	B
Phenolics	0.03		mg/L	0.004	SW846 9066	1	08/19/2025 12:31	AKH	G
Specific Conductance	1540		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	40.7		mg/L	5.0	EPA 300.0	5	08/07/2025 13:10	J1W	B
Total Dissolved Solids	1080		mg/L	25	SM2540C-15	1	08/08/2025 15:20	RAG	B
Total Organic Carbon (TOC)	1.0		mg/L	0.50	SW846 9060A	1	08/13/2025 00:00	PAG	E
Turbidity	9.1		NTU	0.30	SM2130B-2011	1	08/07/2025 10:25	AKH	B

Results

Client Sample ID	FFMP26RW	Collected	08/06/2025 11:40
Lab Sample ID	3429266002	Lab Receipt	08/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	71.34		Feet		Field	1	08/06/2025 11:40	BGS	D
Dissolved Oxygen	0.70		mg/L	0.01	Field	1	08/06/2025 11:40	BGS	D
Elev Top MW Casing above MSL	547.40		Feet		Field	1	08/06/2025 11:40	BGS	D
Flow Rate	1.30		gal/min		Field	1	08/06/2025 11:40	BGS	D
Ground Water Elevation	476.06		ft/MSL		Field	1	08/06/2025 11:40	BGS	D
Oxidation-Reduction Potential	302		mV		Field	1	08/06/2025 11:40	BGS	D
pH, Field (SM4500B)	5.34		pH_Units		Field	1	08/06/2025 11:40	BGS	D
Sample Depth	105.00		Feet		Field	1	08/06/2025 11:40	BGS	D
Specific Conductance, Field	785		umhos/cm	1	Field	1	08/06/2025 11:40	BGS	D
Temperature	14.90		Deg. C		Field	1	08/06/2025 11:40	BGS	D
Total Well Depth	118.30		Feet		Field	1	08/06/2025 11:40	BGS	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/06/2025 11:40	BGS	D
Volume in Water Column	69.03		Gallons		Field	1	08/06/2025 11:40	BGS	D
Water Level After Purge	81.15		Feet		Field	1	08/06/2025 11:40	BGS	D
Well Volumes Purged	1.22		Vol		Field	1	08/06/2025 11:40	BGS	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	70.2		mg/L	0.11	SW846 6010C	1	08/13/2025 12:44	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	08/13/2025 12:44	MSY	J1
Magnesium, Total	17.0		mg/L	0.11	SW846 6010C	1	08/13/2025 12:44	MSY	J1
Manganese, Total	0.58		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:44	MSY	J1
Potassium, Total	8.2		mg/L	0.56	SW846 6010C	1	08/13/2025 12:44	MSY	J1
Sodium, Total	55.3		mg/L	0.56	SW846 6010C	1	08/13/2025 12:44	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 01:35	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:35	BST	H

Results

Client Sample ID	FFMP26RW	Collected	08/06/2025 11:40
Lab Sample ID	3429266002	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	08/14/2025 01:35	
4-Bromofluorobenzene	460-00-4	94.2%	79 – 114	08/14/2025 01:35	
Dibromofluoromethane	1868-53-7	95%	78 – 116	08/14/2025 01:35	
Toluene-d8	2037-26-5	99.6%	76 – 127	08/14/2025 01:35	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	67		mg/L	5	SM2320B-2011	1	08/14/2025 08:36	JXK	B
Alkalinity, Total	67	1,2,3	mg/L	5	SM2320B-2011	1	08/14/2025 08:36	JXK	B
Ammonia-N, Low Level	2.58		mg/L	0.10	SM 4500-NH3G	1	08/11/2025 20:55	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	134	6	mg/L	2.0	EPA 300.0	2	08/07/2025 13:23	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/07/2025 13:23	J1W	B
Nitrate-N	1.6		mg/L	1.0	EPA 300.0	2	08/07/2025 13:23	J1W	B
pH	7.82	4,5	pH_Units		S4500HB-11	1	08/14/2025 08:36	JXK	B
Phenolics	0.007		mg/L	0.004	SW846 9066	1	08/19/2025 12:34	AKH	G
Specific Conductance	795		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	94.5	7	mg/L	2.0	EPA 300.0	2	08/07/2025 13:23	J1W	B
Total Dissolved Solids	502		mg/L	25	SM2540C-15	1	08/08/2025 15:20	RAG	B
Total Organic Carbon (TOC)	2.1		mg/L	0.50	SW846 9060A	1	08/13/2025 00:00	PAG	E
Turbidity	0.35		NTU	0.30	SM2130B-2011	1	08/07/2025 10:25	AKH	B

Results

Client Sample ID	FFMP005W	Collected	08/06/2025 12:08
Lab Sample ID	3429266003	Lab Receipt	08/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	61.80		Feet		Field	1	08/06/2025 12:08	EMP	D
Dissolved Oxygen	0.71		mg/L	0.01	Field	1	08/06/2025 12:08	EMP	D
Elev Top MW Casing above MSL	537.40		Feet		Field	1	08/06/2025 12:08	EMP	D
Flow Rate	1.86		gal/min		Field	1	08/06/2025 12:08	EMP	D
Ground Water Elevation	475.60		ft/MSL		Field	1	08/06/2025 12:08	EMP	D
Oxidation-Reduction Potential	235		mV		Field	1	08/06/2025 12:08	EMP	D
pH, Field (SM4500B)	5.70		pH_Units		Field	1	08/06/2025 12:08	EMP	D
Sample Depth	135.00		Feet		Field	1	08/06/2025 12:08	EMP	D
Specific Conductance, Field	836		umhos/cm	1	Field	1	08/06/2025 12:08	EMP	D
Temperature	13.99		Deg. C		Field	1	08/06/2025 12:08	EMP	D
Total Well Depth	149.70		Feet		Field	1	08/06/2025 12:08	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/06/2025 12:08	EMP	D
Volume in Water Column	129.21		Gallons		Field	1	08/06/2025 12:08	EMP	D
Water Level After Purge	83.70		Feet		Field	1	08/06/2025 12:08	EMP	D
Well Volumes Purged	1.44		Vol		Field	1	08/06/2025 12:08	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	78.9		mg/L	0.11	SW846 6010C	1	08/13/2025 12:39	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	08/13/2025 12:39	MSY	J1
Magnesium, Total	19.0		mg/L	0.11	SW846 6010C	1	08/13/2025 12:39	MSY	J1
Manganese, Total	0.15		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:39	MSY	J1
Potassium, Total	3.2		mg/L	0.56	SW846 6010C	1	08/13/2025 12:39	MSY	J1
Sodium, Total	53.8		mg/L	0.56	SW846 6010C	1	08/13/2025 12:39	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 01:55	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 01:55	BST	H

Results

Client Sample ID	FFMP005W	Collected	08/06/2025 12:08
Lab Sample ID	3429266003	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	08/14/2025 01:55	
4-Bromofluorobenzene	460-00-4	99.4%	79 – 114	08/14/2025 01:55	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	08/14/2025 01:55	
Toluene-d8	2037-26-5	104%	76 – 127	08/14/2025 01:55	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	65		mg/L	5	SM2320B-2011	1	08/14/2025 08:46	JXK	B
Alkalinity, Total	65	1,2,3	mg/L	5	SM2320B-2011	1	08/14/2025 08:46	JXK	B
Ammonia-N, Low Level	0.83		mg/L	0.10	SM 4500-NH3G	1	08/11/2025 14:45	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	154		mg/L	2.0	EPA 300.0	2	08/07/2025 14:15	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/07/2025 14:15	J1W	B
Nitrate-N	1.9		mg/L	1.0	EPA 300.0	2	08/07/2025 14:15	J1W	B
pH	7.82	4,5	pH_Units		S4500HB-11	1	08/14/2025 08:46	JXK	B
Phenolics	0.004		mg/L	0.004	SW846 9066	1	08/19/2025 13:08	AKH	G
Specific Conductance	846		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	77.8		mg/L	2.0	EPA 300.0	2	08/07/2025 14:15	J1W	B
Total Dissolved Solids	568		mg/L	25	SM2540C-15	1	08/08/2025 15:20	RAG	B
Total Organic Carbon (TOC)	1.8		mg/L	0.50	SW846 9060A	1	08/13/2025 00:00	PAG	E
Turbidity	0.40		NTU	0.30	SM2130B-2011	1	08/07/2025 10:25	AKH	B

Results

Client Sample ID	FFMP035W	Collected	08/06/2025 14:08
Lab Sample ID	3429266004	Lab Receipt	08/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	42.66		Feet		Field	1	08/06/2025 14:08	EMP	D
Dissolved Oxygen	6.38		mg/L	0.01	Field	1	08/06/2025 14:08	EMP	D
Elev Top MW Casing above MSL	477.56		Feet		Field	1	08/06/2025 14:08	EMP	D
Flow Rate	0.64		gal/min		Field	1	08/06/2025 14:08	EMP	D
Ground Water Elevation	434.90		ft/MSL		Field	1	08/06/2025 14:08	EMP	D
Oxidation-Reduction Potential	170		mV		Field	1	08/06/2025 14:08	EMP	D
pH, Field (SM4500B)	6.62		pH_Units		Field	1	08/06/2025 14:08	EMP	D
Sample Depth	65.00		Feet		Field	1	08/06/2025 14:08	EMP	D
Specific Conductance, Field	392		umhos/cm	1	Field	1	08/06/2025 14:08	EMP	D
Temperature	19.38		Deg. C		Field	1	08/06/2025 14:08	EMP	D
Total Well Depth	71.80		Feet		Field	1	08/06/2025 14:08	EMP	D
Turbidity, Field	3		NTU	1	Field	1	08/06/2025 14:08	EMP	D
Volume in Water Column	42.84		Gallons		Field	1	08/06/2025 14:08	EMP	D
Water Level After Purge	55.39		Feet		Field	1	08/06/2025 14:08	EMP	D
Well Volumes Purged	1.05		Vol		Field	1	08/06/2025 14:08	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	37.3		mg/L	0.11	SW846 6010C	1	08/13/2025 12:46	MSY	J1
Iron, Total	0.074		mg/L	0.067	SW846 6010C	1	08/13/2025 12:46	MSY	J1
Magnesium, Total	9.8		mg/L	0.11	SW846 6010C	1	08/13/2025 12:46	MSY	J1
Manganese, Total	0.0069		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:46	MSY	J1
Potassium, Total	3.1		mg/L	0.56	SW846 6010C	1	08/13/2025 12:46	MSY	J1
Sodium, Total	23.3		mg/L	0.56	SW846 6010C	1	08/13/2025 12:46	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 02:15	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:15	BST	H

Results

Client Sample ID	FFMP035W	Collected	08/06/2025 14:08
Lab Sample ID	3429266004	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	08/14/2025 02:15	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	08/14/2025 02:15	
Dibromofluoromethane	1868-53-7	95.8%	78 – 116	08/14/2025 02:15	
Toluene-d8	2037-26-5	102%	76 – 127	08/14/2025 02:15	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	53		mg/L	5	SM2320B-2011	1	08/14/2025 08:57	JXK	B
Alkalinity, Total	53	1,2,3	mg/L	5	SM2320B-2011	1	08/14/2025 08:57	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/11/2025 18:49	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	43.3		mg/L	2.0	EPA 300.0	2	08/07/2025 14:28	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/07/2025 14:28	J1W	B
Nitrate-N	4.9		mg/L	1.0	EPA 300.0	2	08/07/2025 14:28	J1W	B
pH	7.91	4,5	pH_Units		S4500HB-11	1	08/14/2025 08:57	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/19/2025 12:38	AKH	G
Specific Conductance	398		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	45.1		mg/L	2.0	EPA 300.0	2	08/07/2025 14:28	J1W	B
Total Dissolved Solids	228		mg/L	25	SM2540C-15	1	08/08/2025 15:20	RAG	B
Total Organic Carbon (TOC)	2.5		mg/L	0.50	SW846 9060A	1	08/13/2025 00:00	PAG	E
Turbidity	1.7		NTU	0.30	SM2130B-2011	1	08/07/2025 10:25	AKH	B

Results

Client Sample ID	FFMP036W	Collected	08/06/2025 14:31
Lab Sample ID	3429266005	Lab Receipt	08/06/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	48.82		Feet		Field	1	08/06/2025 14:31	EMP	D
Dissolved Oxygen	ND	ND	mg/L	0.01	Field	1	08/06/2025 14:31	EMP	D
Elev Top MW Casing above MSL	478.23		Feet		Field	1	08/06/2025 14:31	EMP	D
Flow Rate	1.50		gal/min		Field	1	08/06/2025 14:31	EMP	D
Ground Water Elevation	429.41		ft/MSL		Field	1	08/06/2025 14:31	EMP	D
Oxidation-Reduction Potential	-257		mV		Field	1	08/06/2025 14:31	EMP	D
pH, Field (SM4500B)	8.37		pH_Units		Field	1	08/06/2025 14:31	EMP	D
Sample Depth	135.00		Feet		Field	1	08/06/2025 14:31	EMP	D
Specific Conductance, Field	356		umhos/cm	1	Field	1	08/06/2025 14:31	EMP	D
Temperature	18.08		Deg. C		Field	1	08/06/2025 14:31	EMP	D
Total Well Depth	142.60		Feet		Field	1	08/06/2025 14:31	EMP	D
Turbidity, Field	4		NTU	1	Field	1	08/06/2025 14:31	EMP	D
Volume in Water Column	137.86		Gallons		Field	1	08/06/2025 14:31	EMP	D
Water Level After Purge	85.73		Feet		Field	1	08/06/2025 14:31	EMP	D
Well Volumes Purged	1.03		Vol		Field	1	08/06/2025 14:31	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	49.7		mg/L	0.11	SW846 6010C	1	08/13/2025 12:41	MSY	J1
Iron, Total	1.6		mg/L	0.067	SW846 6010C	1	08/13/2025 12:41	MSY	J1
Magnesium, Total	5.1		mg/L	0.11	SW846 6010C	1	08/13/2025 12:41	MSY	J1
Manganese, Total	0.14		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:41	MSY	J1
Potassium, Total	0.84		mg/L	0.56	SW846 6010C	1	08/13/2025 12:41	MSY	J1
Sodium, Total	16.1		mg/L	0.56	SW846 6010C	1	08/13/2025 12:41	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 02:36	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 02:36	BST	H

Results

Client Sample ID	FFMP036W	Collected	08/06/2025 14:31
Lab Sample ID	3429266005	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	08/14/2025 02:36	
4-Bromofluorobenzene	460-00-4	99.2%	79 – 114	08/14/2025 02:36	
Dibromofluoromethane	1868-53-7	95.6%	78 – 116	08/14/2025 02:36	
Toluene-d8	2037-26-5	102%	76 – 127	08/14/2025 02:36	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	95		mg/L	5	SM2320B-2011	1	08/14/2025 09:09	JXK	B
Alkalinity, Total	98	1,2,3	mg/L	5	SM2320B-2011	1	08/14/2025 09:09	JXK	B
Ammonia-N, Low Level	0.56		mg/L	0.10	SM 4500-NH3G	1	08/11/2025 14:09	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	32.3		mg/L	2.0	EPA 300.0	2	08/07/2025 14:41	J1W	B
Fluoride	0.26		mg/L	0.20	EPA 300.0	2	08/07/2025 14:41	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	08/07/2025 14:41	J1W	B
pH	8.35	4,5	pH_Units		S4500HB-11	1	08/14/2025 09:09	JXK	B
Phenolics	0.005		mg/L	0.004	SW846 9066	1	08/19/2025 13:01	AKH	G
Specific Conductance	356		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	26.9		mg/L	2.0	EPA 300.0	2	08/07/2025 14:41	J1W	B
Total Dissolved Solids	220		mg/L	25	SM2540C-15	1	08/08/2025 15:20	RAG	B
Total Organic Carbon (TOC)	0.56		mg/L	0.50	SW846 9060A	1	08/13/2025 00:00	PAG	E
Turbidity	13		NTU	0.30	SM2130B-2011	1	08/07/2025 10:25	AKH	B

Results

Client Sample ID	TRIP BLANK	Collected	08/06/2025 14:31
Lab Sample ID	3429266006	Lab Receipt	08/06/2025 16:40

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/13/2025 20:28	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 20:28	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	08/13/2025 20:28	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	08/13/2025 20:28	
Dibromofluoromethane	1868-53-7	99.1%	78 – 116	08/13/2025 20:28	
Toluene-d8	2037-26-5	99.7%	76 – 127	08/13/2025 20:28	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3429266001	FFMP02DW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429266002	FFMP26RW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429266003	FFMP005W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429266004	FFMP035W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3429266005	FFMP036W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429266006	TRIP BLANK	SW846 8260B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3429266001	FFMP02DW	N/A	N/A	N/A		Field	1461630
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458941
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458962
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1459187
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459328
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429266002	FFMP26RW	N/A	N/A	N/A		Field	1461941
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458941
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458962
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1459187
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459328
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429266003	FFMP005W	N/A	N/A	N/A		Field	1461630
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458941
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458962
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1459187
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459328
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429266004	FFMP035W	N/A	N/A	N/A		Field	1461943
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458941
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458962
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1459187
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459328
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3429266005	FFMP036W	N/A	N/A	N/A		Field	1461943
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458941
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458962
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1459187
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459328
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429266006	TRIP BLANK	N/A	N/A	N/A		SW846 8260B	1460533

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.

3429266
Logged By: SLS
PM: SJB

of

(Receiving Lab)
WO Temp (°C)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Frey Farm Quarterly GWMP
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

Date Required: **Approved?**
Email? [x] dbrown@lcswma.org

	Container Type	AG	AN	CG	P	P			P	P	
	Container Size	40ml	125ml	40ml	500ml	250ml			250ml	125ml	
	Preservative	HCL	H2SO4	HCL	UNP	UNP			H2SO4	HNO3	
	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	O-OH	VOC Form 19Q	pH, Cl, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, Bicarbonate	FM	Sample Debth for AUX Data	NH3-N, COD	Metals Fe,Mn,Na,Ca,K,Mg	
							Enter Number of Containers Per Sample or Field Results Below.									
1	FFMP02DW	8-6-25	0929		G	GW	2	1	2	1	1	x	x	1	2	
2	FFMP26RW	8-6-25	1140													
3	FFMP005W	8-6-25	1208													
4	FFMP035W	8-6-25	1408													
5	FFMP036W	8-6-25	1431													
6														WS#75		
7																
8																
9																
10																

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
8-6-25	1640	1	ALS	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
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
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

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 34292666

Temp °C 1 Therm ID 569 Ice? (Y) N N/A Initials & Date WS 8/25/25

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		UC
•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 3RD QTR 2025 GWMP-FORM 19Q
Workorder 3428877
Report ID 451141 on 8/21/2025

Certificate of Analysis

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

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3428877001	FFMP029W	Ground Water	08/05/2025 09:13	08/05/2025 15:55	EMP	ALS Environmental-Middletown
3428877002	FFMP017W	Ground Water	08/05/2025 10:47	08/05/2025 15:55	EMP	ALS Environmental-Middletown
3428877003	FFMP034W	Ground Water	08/05/2025 12:11	08/05/2025 15:55	EMP	ALS Environmental-Middletown
3428877004	FFMP03AW	Ground Water	08/05/2025 14:15	08/05/2025 15:55	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 Method Blank for method SM2320B-2011 reported a value greater than the reporting level for the analyte Alkalinity, Total. The concentration was 13.6
3	The Method Blank for method SM2320B-2011 reported a value greater than the reporting level for the analyte Alkalinity, Total. The concentration was 10
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The QC sample type STD 10 for method S4500HB-11 was outside the control limits for the analyte pH. The % Recovery was reported as 99.9 and the control limits were 100 to 101.
6	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Calcium, Total. The % Recovery was reported as 60.6 and the control limits were 75 to 125.

Detected Results Summary

Client Sample ID	FFMP029W	Collected	08/05/2025 09:13
Lab Sample ID	3428877001	Lab Receipt	08/05/2025 15:55

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	38.22	Feet		Field	#
Dissolved Oxygen	6.49	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	477.30	Feet		Field	#
Flow Rate	2.06	gal/min		Field	#
Ground Water Elevation	439.08	ft/MSL		Field	#
Oxidation-Reduction Potential	306	mV		Field	#
pH, Field (SM4500B)	5.11	pH_Units		Field	#
Sample Depth	55.00	Feet		Field	#
Specific Conductance, Field	242	umhos/cm	1	Field	#
Temperature	14.80	Deg. C		Field	#
Total Well Depth	60.50	Feet		Field	#
Volume in Water Column	32.75	Gallons		Field	#
Water Level After Purge	44.05	Feet		Field	#
Well Volumes Purged	3.46	Vol		Field	#
METALS					
Calcium, Total	11.5	mg/L	0.11	SW846 6010C	#
Magnesium, Total	8.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.018	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	18.3	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	10	mg/L	5	SM2320B-2011	#
Alkalinity, Total	10	mg/L	5	SM2320B-2011	#
Chloride	55.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	2.9	mg/L	1.0	EPA 300.0	#
pH	7.18	pH_Units		S4500HB-11	#
Specific Conductance	249	umhos/cm	5	SW846 9050A	#
Sulfate	2.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	194	mg/L	25	SM2540C-15	#
Turbidity	0.35	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP017W	Collected	08/05/2025 10:47
Lab Sample ID	3428877002	Lab Receipt	08/05/2025 15:55

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	41.41	Feet		Field	#
Dissolved Oxygen	0.16	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	480.70	Feet		Field	#
Flow Rate	1.70	gal/min		Field	#
Ground Water Elevation	439.29	ft/MSL		Field	#
Oxidation-Reduction Potential	126	mV		Field	#
pH, Field (SM4500B)	6.14	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	1950	umhos/cm	1	Field	#
Temperature	13.28	Deg. C		Field	#
Total Well Depth	150.50	Feet		Field	#
Volume in Water Column	160.36	Gallons		Field	#
Water Level After Purge	46.15	Feet		Field	#
Well Volumes Purged	1.33	Vol		Field	#
METALS					
Calcium, Total	145	mg/L	0.11	SW846 6010C	#
Magnesium, Total	47.6	mg/L	0.11	SW846 6010C	#
Manganese, Total	1.9	mg/L	0.0056	SW846 6010C	#
Potassium, Total	14.7	mg/L	0.56	SW846 6010C	#
Sodium, Total	155	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	117	mg/L	5	SM2320B-2011	#
Alkalinity, Total	117	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.28	mg/L	0.10	SM 4500-NH3G	#
Chloride	442	mg/L	5.0	EPA 300.0	#
Nitrate-N	2.6	mg/L	2.5	EPA 300.0	#
pH	8.07	pH_Units		S4500HB-11	#
Specific Conductance	1930	umhos/cm	5	SW846 9050A	#
Sulfate	107	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1260	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	3.3	mg/L	0.50	SW846 9060A	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP034W	Collected	08/05/2025 12:11
Lab Sample ID	3428877003	Lab Receipt	08/05/2025 15:55

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	9.69	Feet		Field	#
Dissolved Oxygen	1.01	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	472.88	Feet		Field	#
Flow Rate	1.80	gal/min		Field	#
Ground Water Elevation	463.19	ft/MSL		Field	#
Oxidation-Reduction Potential	123	mV		Field	#
pH, Field (SM4500B)	5.84	pH_Units		Field	#
Sample Depth	25.85	Feet		Field	#
Specific Conductance, Field	665	umhos/cm	1	Field	#
Temperature	14.13	Deg. C		Field	#
Total Well Depth	121.00	Feet		Field	#
Turbidity, Field	3	NTU	1	Field	#
Volume in Water Column	163.63	Gallons		Field	#
Water Level After Purge	19.98	Feet		Field	#
Well Volumes Purged	1.38	Vol		Field	#
METALS					
Calcium, Total	52.3	mg/L	0.11	SW846 6010C	#
Iron, Total	1.3	mg/L	0.067	SW846 6010C	#
Magnesium, Total	19.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.10	mg/L	0.0056	SW846 6010C	#
Potassium, Total	3.7	mg/L	0.56	SW846 6010C	#
Sodium, Total	39.7	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	41	mg/L	5	SM2320B-2011	#
Alkalinity, Total	41	mg/L	5	SM2320B-2011	#
Chloride	127	mg/L	2.0	EPA 300.0	#
Nitrate-N	11.2	mg/L	1.0	EPA 300.0	#
pH	7.85	pH_Units		S4500HB-11	#
Specific Conductance	674	umhos/cm	5	SW846 9050A	#
Sulfate	29.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	466	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.3	mg/L	0.50	SW846 9060A	#
Turbidity	10	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP03AW	Collected	08/05/2025 14:15
Lab Sample ID	3428877004	Lab Receipt	08/05/2025 15:55

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	50.80	Feet		Field	#
Dissolved Oxygen	8.09	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	590.90	Feet		Field	#
Flow Rate	1.84	gal/min		Field	#
Ground Water Elevation	540.10	ft/MSL		Field	#
Oxidation-Reduction Potential	317	mV		Field	#
pH, Field (SM4500B)	5.10	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	388	umhos/cm	1	Field	#
Temperature	15.18	Deg. C		Field	#
Total Well Depth	148.40	Feet		Field	#
Volume in Water Column	143.47	Gallons		Field	#
Water Level After Purge	105.90	Feet		Field	#
Well Volumes Purged	1.92	Vol		Field	#
METALS					
Calcium, Total	21.6	mg/L	0.11	SW846 6010C	#
Iron, Total	0.12	mg/L	0.067	SW846 6010C	#
Magnesium, Total	18.0	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.29	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.6	mg/L	0.56	SW846 6010C	#
Sodium, Total	17.7	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	13	mg/L	5	SM2320B-2011	#
Alkalinity, Total	13	mg/L	5	SM2320B-2011	#
Chloride	59.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	18.0	mg/L	1.0	EPA 300.0	#
pH	7.24	pH_Units		S4500HB-11	#
Phenolics	0.006	mg/L	0.004	SW846 9066	#
Specific Conductance	388	umhos/cm	5	SW846 9050A	#
Total Dissolved Solids	288	mg/L	25	SM2540C-15	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	FFMP029W	Collected	08/05/2025 09:13
Lab Sample ID	3428877001	Lab Receipt	08/05/2025 15:55

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	38.22		Feet		Field	1	08/05/2025 09:13	BGS	D
Dissolved Oxygen	6.49		mg/L	0.01	Field	1	08/05/2025 09:13	BGS	D
Elev Top MW Casing above MSL	477.30		Feet		Field	1	08/05/2025 09:13	BGS	D
Flow Rate	2.06		gal/min		Field	1	08/05/2025 09:13	BGS	D
Ground Water Elevation	439.08		ft/MSL		Field	1	08/05/2025 09:13	BGS	D
Oxidation-Reduction Potential	306		mV		Field	1	08/05/2025 09:13	BGS	D
pH, Field (SM4500B)	5.11		pH_Units		Field	1	08/05/2025 09:13	BGS	D
Sample Depth	55.00		Feet		Field	1	08/05/2025 09:13	BGS	D
Specific Conductance, Field	242		umhos/cm	1	Field	1	08/05/2025 09:13	BGS	D
Temperature	14.80		Deg. C		Field	1	08/05/2025 09:13	BGS	D
Total Well Depth	60.50		Feet		Field	1	08/05/2025 09:13	BGS	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/05/2025 09:13	BGS	D
Volume in Water Column	32.75		Gallons		Field	1	08/05/2025 09:13	BGS	D
Water Level After Purge	44.05		Feet		Field	1	08/05/2025 09:13	BGS	D
Well Volumes Purged	3.46		Vol		Field	1	08/05/2025 09:13	BGS	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	11.5		mg/L	0.11	SW846 6010C	1	08/13/2025 12:26	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	08/13/2025 12:26	MSY	J1
Magnesium, Total	8.9		mg/L	0.11	SW846 6010C	1	08/13/2025 12:26	MSY	J1
Manganese, Total	0.018		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:26	MSY	J1
Potassium, Total	1.9		mg/L	0.56	SW846 6010C	1	08/13/2025 12:26	MSY	J1
Sodium, Total	18.3		mg/L	0.56	SW846 6010C	1	08/13/2025 12:26	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/13/2025 23:53	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/13/2025 23:53	BST	H

Results

Client Sample ID	FFMP029W	Collected	08/05/2025 09:13
Lab Sample ID	3428877001	Lab Receipt	08/05/2025 15:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	08/13/2025 23:53	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	08/13/2025 23:53	
Dibromofluoromethane	1868-53-7	96.8%	78 – 116	08/13/2025 23:53	
Toluene-d8	2037-26-5	103%	76 – 127	08/13/2025 23:53	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	10		mg/L	5	SM2320B-2011	1	08/13/2025 20:41	JXK	B
Alkalinity, Total	10	1,2,3	mg/L	5	SM2320B-2011	1	08/13/2025 20:41	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/12/2025 14:10	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/08/2025 11:45	KMS	A
Chloride	55.3		mg/L	2.0	EPA 300.0	2	08/06/2025 11:42	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/06/2025 11:42	J1W	B
Nitrate-N	2.9		mg/L	1.0	EPA 300.0	2	08/06/2025 11:42	J1W	B
pH	7.18	4,5	pH_Units		S4500HB-11	1	08/13/2025 20:41	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 14:44	ZEB	G
Specific Conductance	249		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	2.9		mg/L	2.0	EPA 300.0	2	08/06/2025 11:42	J1W	B
Total Dissolved Solids	194		mg/L	25	SM2540C-15	1	08/07/2025 16:25	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/07/2025 23:58	PAG	E
Turbidity	0.35		NTU	0.30	SM2130B-2011	1	08/06/2025 11:40	AKH	B

Results

Client Sample ID	FFMP017W	Collected	08/05/2025 10:47
Lab Sample ID	3428877002	Lab Receipt	08/05/2025 15:55

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	41.41		Feet		Field	1	08/05/2025 10:47	BGS	D
Dissolved Oxygen	0.16		mg/L	0.01	Field	1	08/05/2025 10:47	BGS	D
Elev Top MW Casing above MSL	480.70		Feet		Field	1	08/05/2025 10:47	BGS	D
Flow Rate	1.70		gal/min		Field	1	08/05/2025 10:47	BGS	D
Ground Water Elevation	439.29		ft/MSL		Field	1	08/05/2025 10:47	BGS	D
Oxidation-Reduction Potential	126		mV		Field	1	08/05/2025 10:47	BGS	D
pH, Field (SM4500B)	6.14		pH_Units		Field	1	08/05/2025 10:47	BGS	D
Sample Depth	135.00		Feet		Field	1	08/05/2025 10:47	BGS	D
Specific Conductance, Field	1950		umhos/cm	1	Field	1	08/05/2025 10:47	BGS	D
Temperature	13.28		Deg. C		Field	1	08/05/2025 10:47	BGS	D
Total Well Depth	150.50		Feet		Field	1	08/05/2025 10:47	BGS	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/05/2025 10:47	BGS	D
Volume in Water Column	160.36		Gallons		Field	1	08/05/2025 10:47	BGS	D
Water Level After Purge	46.15		Feet		Field	1	08/05/2025 10:47	BGS	D
Well Volumes Purged	1.33		Vol		Field	1	08/05/2025 10:47	BGS	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	145		mg/L	0.11	SW846 6010C	1	08/13/2025 12:31	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	08/13/2025 12:31	MSY	J1
Magnesium, Total	47.6		mg/L	0.11	SW846 6010C	1	08/13/2025 12:31	MSY	J1
Manganese, Total	1.9		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:31	MSY	J1
Potassium, Total	14.7		mg/L	0.56	SW846 6010C	1	08/13/2025 12:31	MSY	J1
Sodium, Total	155		mg/L	0.56	SW846 6010C	1	08/13/2025 12:31	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 00:13	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:13	BST	H

Results

Client Sample ID	FFMP017W	Collected	08/05/2025 10:47
Lab Sample ID	3428877002	Lab Receipt	08/05/2025 15:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	08/14/2025 00:13	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	08/14/2025 00:13	
Dibromofluoromethane	1868-53-7	96.8%	78 – 116	08/14/2025 00:13	
Toluene-d8	2037-26-5	103%	76 – 127	08/14/2025 00:13	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	117		mg/L	5	SM2320B-2011	1	08/13/2025 20:52	JXK	B
Alkalinity, Total	117	1,2,3	mg/L	5	SM2320B-2011	1	08/13/2025 20:52	JXK	B
Ammonia-N, Low Level	0.28		mg/L	0.10	SM 4500-NH3G	1	08/11/2025 23:19	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/08/2025 11:45	KMS	A
Chloride	442		mg/L	5.0	EPA 300.0	5	08/06/2025 11:55	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	08/06/2025 11:55	J1W	B
Nitrate-N	2.6		mg/L	2.5	EPA 300.0	5	08/06/2025 11:55	J1W	B
pH	8.07	4,5	pH_Units		S4500HB-11	1	08/13/2025 20:52	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 14:47	ZEB	G
Specific Conductance	1930		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	107		mg/L	5.0	EPA 300.0	5	08/06/2025 11:55	J1W	B
Total Dissolved Solids	1260		mg/L	25	SM2540C-15	1	08/07/2025 16:25	RAG	B
Total Organic Carbon (TOC)	3.3		mg/L	0.50	SW846 9060A	1	08/07/2025 23:58	PAG	E
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	08/06/2025 11:40	AKH	B

Results

Client Sample ID	FFMP034W	Collected	08/05/2025 12:11
Lab Sample ID	3428877003	Lab Receipt	08/05/2025 15:55

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	9.69		Feet		Field	1	08/05/2025 12:11	EMP	D
Dissolved Oxygen	1.01		mg/L	0.01	Field	1	08/05/2025 12:11	EMP	D
Elev Top MW Casing above MSL	472.88		Feet		Field	1	08/05/2025 12:11	EMP	D
Flow Rate	1.80		gal/min		Field	1	08/05/2025 12:11	EMP	D
Ground Water Elevation	463.19		ft/MSL		Field	1	08/05/2025 12:11	EMP	D
Oxidation-Reduction Potential	123		mV		Field	1	08/05/2025 12:11	EMP	D
pH, Field (SM4500B)	5.84		pH_Units		Field	1	08/05/2025 12:11	EMP	D
Sample Depth	25.85		Feet		Field	1	08/05/2025 12:11	EMP	D
Specific Conductance, Field	665		umhos/cm	1	Field	1	08/05/2025 12:11	EMP	D
Temperature	14.13		Deg. C		Field	1	08/05/2025 12:11	EMP	D
Total Well Depth	121.00		Feet		Field	1	08/05/2025 12:11	EMP	D
Turbidity, Field	3		NTU	1	Field	1	08/05/2025 12:11	EMP	D
Volume in Water Column	163.63		Gallons		Field	1	08/05/2025 12:11	EMP	D
Water Level After Purge	19.98		Feet		Field	1	08/05/2025 12:11	EMP	D
Well Volumes Purged	1.38		Vol		Field	1	08/05/2025 12:11	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	52.3	6	mg/L	0.11	SW846 6010C	1	08/13/2025 12:18	MSY	J1
Iron, Total	1.3		mg/L	0.067	SW846 6010C	1	08/13/2025 12:18	MSY	J1
Magnesium, Total	19.5		mg/L	0.11	SW846 6010C	1	08/13/2025 12:18	MSY	J1
Manganese, Total	0.10		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:18	MSY	J1
Potassium, Total	3.7		mg/L	0.56	SW846 6010C	1	08/13/2025 12:18	MSY	J1
Sodium, Total	39.7		mg/L	0.56	SW846 6010C	1	08/13/2025 12:18	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 00:33	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:33	BST	H

Results

Client Sample ID	FFMP034W	Collected	08/05/2025 12:11
Lab Sample ID	3428877003	Lab Receipt	08/05/2025 15:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	08/14/2025 00:33	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	08/14/2025 00:33	
Dibromofluoromethane	1868-53-7	94.7%	78 – 116	08/14/2025 00:33	
Toluene-d8	2037-26-5	101%	76 – 127	08/14/2025 00:33	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	41		mg/L	5	SM2320B-2011	1	08/13/2025 21:03	JXK	B
Alkalinity, Total	41	1,2,3	mg/L	5	SM2320B-2011	1	08/13/2025 21:03	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/11/2025 21:31	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/08/2025 11:45	KMS	A
Chloride	127		mg/L	2.0	EPA 300.0	2	08/06/2025 12:08	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/06/2025 12:08	J1W	B
Nitrate-N	11.2		mg/L	1.0	EPA 300.0	2	08/06/2025 12:08	J1W	B
pH	7.85	4,5	pH_Units		S4500HB-11	1	08/13/2025 21:03	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 14:40	ZEB	G
Specific Conductance	674		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	29.3		mg/L	2.0	EPA 300.0	2	08/06/2025 12:08	J1W	B
Total Dissolved Solids	466		mg/L	25	SM2540C-15	1	08/07/2025 16:25	RAG	B
Total Organic Carbon (TOC)	1.3		mg/L	0.50	SW846 9060A	1	08/07/2025 23:58	PAG	E
Turbidity	10		NTU	0.30	SM2130B-2011	1	08/06/2025 11:40	AKH	B

Results

Client Sample ID	FFMP03AW	Collected	08/05/2025 14:15
Lab Sample ID	3428877004	Lab Receipt	08/05/2025 15:55

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	50.80		Feet		Field	1	08/05/2025 14:14	EMP	D
Dissolved Oxygen	8.09		mg/L	0.01	Field	1	08/05/2025 14:14	EMP	D
Elev Top MW Casing above MSL	590.90		Feet		Field	1	08/05/2025 14:14	EMP	D
Flow Rate	1.84		gal/min		Field	1	08/05/2025 14:14	EMP	D
Ground Water Elevation	540.10		ft/MSL		Field	1	08/05/2025 14:14	EMP	D
Oxidation-Reduction Potential	317		mV		Field	1	08/05/2025 14:14	EMP	D
pH, Field (SM4500B)	5.10		pH_Units		Field	1	08/05/2025 14:14	EMP	D
Sample Depth	130.00		Feet		Field	1	08/05/2025 14:14	EMP	D
Specific Conductance, Field	388		umhos/cm	1	Field	1	08/05/2025 14:14	EMP	D
Temperature	15.18		Deg. C		Field	1	08/05/2025 14:14	EMP	D
Total Well Depth	148.40		Feet		Field	1	08/05/2025 14:14	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/05/2025 14:14	EMP	D
Volume in Water Column	143.47		Gallons		Field	1	08/05/2025 14:14	EMP	D
Water Level After Purge	105.90		Feet		Field	1	08/05/2025 14:14	EMP	D
Well Volumes Purged	1.92		Vol		Field	1	08/05/2025 14:14	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	21.6		mg/L	0.11	SW846 6010C	1	08/13/2025 12:29	MSY	J1
Iron, Total	0.12		mg/L	0.067	SW846 6010C	1	08/13/2025 12:29	MSY	J1
Magnesium, Total	18.0		mg/L	0.11	SW846 6010C	1	08/13/2025 12:29	MSY	J1
Manganese, Total	0.29		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:29	MSY	J1
Potassium, Total	1.6		mg/L	0.56	SW846 6010C	1	08/13/2025 12:29	MSY	J1
Sodium, Total	17.7		mg/L	0.56	SW846 6010C	1	08/13/2025 12:29	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/14/2025 00:54	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/14/2025 00:54	BST	H

Results

Client Sample ID	FFMP03AW	Collected	08/05/2025 14:15
Lab Sample ID	3428877004	Lab Receipt	08/05/2025 15:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	08/14/2025 00:54	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	08/14/2025 00:54	
Dibromofluoromethane	1868-53-7	95.8%	78 – 116	08/14/2025 00:54	
Toluene-d8	2037-26-5	102%	76 – 127	08/14/2025 00:54	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	13		mg/L	5	SM2320B-2011	1	08/13/2025 21:16	JXK	B
Alkalinity, Total	13	1,2,3	mg/L	5	SM2320B-2011	1	08/13/2025 21:16	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/11/2025 23:34	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/08/2025 11:45	KMS	A
Chloride	59.1		mg/L	2.0	EPA 300.0	2	08/06/2025 12:21	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/06/2025 12:21	J1W	B
Nitrate-N	18.0		mg/L	1.0	EPA 300.0	2	08/06/2025 12:21	J1W	B
pH	7.24	4,5	pH_Units		S4500HB-11	1	08/13/2025 21:16	JXK	B
Phenolics	0.006		mg/L	0.004	SW846 9066	1	08/19/2025 15:34	AKH	G
Specific Conductance	388		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	08/06/2025 12:21	J1W	B
Total Dissolved Solids	288		mg/L	25	SM2540C-15	1	08/07/2025 16:25	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/07/2025 23:58	PAG	E
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	08/06/2025 11:40	AKH	B

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3428877001	FFMP029W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428877002	FFMP017W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428877003	FFMP034W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428877004	FFMP03AW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3428877001	FFMP029W	N/A	N/A	N/A		Field	1461941
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458745
		N/A	N/A	N/A		EPA 410.4	1459188
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1460164
		N/A	N/A	N/A		SM2130B-2011	1458823
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1458980
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459103
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428877002	FFMP017W	N/A	N/A	N/A		Field	1461941
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458745
		N/A	N/A	N/A		EPA 410.4	1459188
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459884
		N/A	N/A	N/A		SM2130B-2011	1458823
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1458980
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459103
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428877003	FFMP034W	N/A	N/A	N/A		Field	1461943
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458745
		N/A	N/A	N/A		EPA 410.4	1459188
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459884
		N/A	N/A	N/A		SM2130B-2011	1458823
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1458980
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459103
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428877004	FFMP03AW	N/A	N/A	N/A		Field	1461630
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1460533
		N/A	N/A	N/A		EPA 300.0	1458745
		N/A	N/A	N/A		EPA 410.4	1459188
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459876
		N/A	N/A	N/A		SM2130B-2011	1458823
		N/A	N/A	N/A		SM2320B-2011	1460044
		N/A	N/A	N/A		SM2540C-15	1458980
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1459103
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1461237

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.

3428877
Logged By: SLS
PM: SJB

of

(Completed by Receiving Lab)

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:

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Frey Farm Quarterly GWMP
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

Date Required: **Approved?**
Email? [x] dbrown@lcswma.org

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

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	O-OH	VOC Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, Bicarbonate	FM	Sample Debth for AUX Data	NH3-N, COD	Metals Fe,Mn,Na,Ca,K,Mg
							Enter Number of Containers Per Sample or Field Results Below.								
1	FFMP029W	8.5.25	0913		G	GW	2	1	2 3	1	1	x	x	1	2
2	FFMP017W	8.5.25	1047												
3	FFMP034W	8.5.25	1211												
4	FFMP03AW	8.5.25	1415												
5															DM
6															8/5/25
7															
8															
9															
10															

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

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

Sample/COC Remarks

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

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

Comments:

Date:	Time	Relinquished By / Company Name		Received By / Company Name
8.5.25	1555	1 AS	2	MRT
		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 Workorder 3428877

Temp °C 1° Therm ID 649 Ice? (Y) N N/A Initials & Date DB 8/5/25

Fedex UPS Client (ALS) Other Tracking # _____

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

[1] *If No, provide comment*

Rad Screen (uCi) _____

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

Review Comments:

_____

_____

_____

8/21/2025 12:49 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 3RD QTR 2025 GWMP-FORM 19Q
Workorder 3428694
Report ID 450827 on 8/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Aug 04, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3428694001	FIELD BLANK	Water	08/04/2025 10:10	08/04/2025 16:40	EMP	ALS Environmental-Middletown
3428694002	FFMP015W	Ground Water	08/04/2025 11:50	08/04/2025 16:40	EMP	ALS Environmental-Middletown
3428694003	FFMP033W	Ground Water	08/04/2025 11:02	08/04/2025 16:40	EMP	ALS Environmental-Middletown
3428694004	FFMP30RW	Ground Water	08/04/2025 14:28	08/04/2025 16:40	EMP	ALS Environmental-Middletown
3428694005	FFMP04AW	Ground Water	08/04/2025 15:34	08/04/2025 16:40	EMP	ALS Environmental-Middletown
3428694006	TRIP BLANK	Water	08/04/2025 16:40	08/04/2025 16:40	EMP	ALS Environmental-Middletown

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The 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 sample was originally run within hold time, but required further analysis that exceeded hold time.
4	This sample was reran out of hold within the instrument's calibration range, for the analyte Nitrate/Nitrite -N, and confirms the initial in-hold reported result.
5	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 65.2 and the control limits were 80 to 120.
6	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 63.6 and the control limits were 80 to 120.
7	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 75.4 and the control limits were 80 to 120.
8	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 73.3 and the control limits were 80 to 120.
9	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Calcium, Total. The % Recovery was reported as 137 and the control limits were 75 to 125.

Detected Results Summary

Client Sample ID	FIELD BLANK	Collected	08/04/2025 10:10
Lab Sample ID	3428694001	Lab Receipt	08/04/2025 16:40

Compound	Result	Units	RDL	Method	Flag
WET CHEMISTRY					
pH	5.83	pH_Units		S4500HB-11	#
Turbidity	0.55	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP015W	Collected	08/04/2025 11:50
Lab Sample ID	3428694002	Lab Receipt	08/04/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	63.90	Feet		Field	#
Dissolved Oxygen	7.56	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	576.40	Feet		Field	#
Flow Rate	1.37	gal/min		Field	#
Ground Water Elevation	512.50	ft/MSL		Field	#
Oxidation-Reduction Potential	219	mV		Field	#
pH, Field (SM4500B)	5.63	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	456	umhos/cm	1	Field	#
Temperature	20.64	Deg. C		Field	#
Total Well Depth	149.90	Feet		Field	#
Turbidity, Field	2	NTU	1	Field	#
Volume in Water Column	126.42	Gallons		Field	#
Water Level After Purge	108.70	Feet		Field	#
Well Volumes Purged	2.06	Vol		Field	#
METALS					
Calcium, Total	30.6	mg/L	0.11	SW846 6010C	#
Iron, Total	0.088	mg/L	0.067	SW846 6010C	#
Magnesium, Total	22.9	mg/L	0.11	SW846 6010C	#
Potassium, Total	2.1	mg/L	0.56	SW846 6010C	#
Sodium, Total	19.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	28	mg/L	5	SM2320B-2011	#
Alkalinity, Total	28	mg/L	5	SM2320B-2011	#
Chloride	34.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	28.6	mg/L	1.0	EPA 300.0	#
pH	7.54	pH_Units		S4500HB-11	#
Specific Conductance	453	umhos/cm	5	SW846 9050A	#
Sulfate	25.2	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	318	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.1	mg/L	0.50	SW846 9060A	#
Turbidity	0.85	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP033W	Collected	08/04/2025 11:02
Lab Sample ID	3428694003	Lab Receipt	08/04/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	19.93	Feet		Field	#
Dissolved Oxygen	0.93	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	516.52	Feet		Field	#
Flow Rate	1.58	gal/min		Field	#
Ground Water Elevation	496.59	ft/MSL		Field	#
Oxidation-Reduction Potential	110	mV		Field	#
pH, Field (SM4500B)	5.56	pH_Units		Field	#
Sample Depth	79.00	Feet		Field	#
Specific Conductance, Field	457	umhos/cm	1	Field	#
Temperature	15.78	Deg. C		Field	#
Total Well Depth	100.00	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	117.70	Gallons		Field	#
Water Level After Purge	38.08	Feet		Field	#
Well Volumes Purged	1.68	Vol		Field	#
METALS					
Calcium, Total	38.8	mg/L	0.11	SW846 6010C	#
Iron, Total	4.3	mg/L	0.067	SW846 6010C	#
Magnesium, Total	14.2	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.21	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	19.8	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	32	mg/L	5	SM2320B-2011	#
Alkalinity, Total	32	mg/L	5	SM2320B-2011	#
Chloride	88.1	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.4	mg/L	1.0	EPA 300.0	#
pH	7.59	pH_Units		S4500HB-11	#
Specific Conductance	457	umhos/cm	5	SW846 9050A	#
Sulfate	12.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	354	mg/L	25	SM2540C-15	#
Turbidity	5.3	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP30RW	Collected	08/04/2025 14:28
Lab Sample ID	3428694004	Lab Receipt	08/04/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	33.40	Feet		Field	#
Dissolved Oxygen	2.32	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	562.30	Feet		Field	#
Flow Rate	1.79	gal/min		Field	#
Ground Water Elevation	528.90	ft/MSL		Field	#
Oxidation-Reduction Potential	298	mV		Field	#
pH, Field (SM4500B)	5.27	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	737	umhos/cm	1	Field	#
Temperature	14.10	Deg. C		Field	#
Total Well Depth	94.20	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	89.38	Gallons		Field	#
Water Level After Purge	44.20	Feet		Field	#
Well Volumes Purged	2.10	Vol		Field	#
METALS					
Calcium, Total	31.2	mg/L	0.11	SW846 6010C	#
Iron, Total	0.099	mg/L	0.067	SW846 6010C	#
Magnesium, Total	16.5	mg/L	0.11	SW846 6010C	#
Manganese, Total	1.5	mg/L	0.0056	SW846 6010C	#
Potassium, Total	4.3	mg/L	0.56	SW846 6010C	#
Sodium, Total	82.1	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	27	mg/L	5	SM2320B-2011	#
Alkalinity, Total	27	mg/L	5	SM2320B-2011	#
Chloride	187	mg/L	2.0	EPA 300.0	#
Nitrate-N	6.7	mg/L	1.0	EPA 300.0	#
pH	7.47	pH_Units		S4500HB-11	#
Specific Conductance	748	umhos/cm	5	SW846 9050A	#
Sulfate	22.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	476	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.67	mg/L	0.50	SW846 9060A	#
Turbidity	2.4	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP04AW	Collected	08/04/2025 15:34
Lab Sample ID	3428694005	Lab Receipt	08/04/2025 16:40

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	32.80	Feet		Field	#
Dissolved Oxygen	0.20	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	560.72	Feet		Field	#
Flow Rate	1.45	gal/min		Field	#
Ground Water Elevation	527.92	ft/MSL		Field	#
Oxidation-Reduction Potential	87	mV		Field	#
pH, Field (SM4500B)	7.09	pH_Units		Field	#
Sample Depth	146.00	Feet		Field	#
Specific Conductance, Field	1471	umhos/cm	1	Field	#
Temperature	15.52	Deg. C		Field	#
Total Well Depth	148.50	Feet		Field	#
Volume in Water Column	170.08	Gallons		Field	#
Water Level After Purge	93.25	Feet		Field	#
Well Volumes Purged	1.46	Vol		Field	#
METALS					
Calcium, Total	160	mg/L	0.11	SW846 6010C	#
Iron, Total	0.085	mg/L	0.067	SW846 6010C	#
Magnesium, Total	27.4	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.48	mg/L	0.0056	SW846 6010C	#
Potassium, Total	2.9	mg/L	0.56	SW846 6010C	#
Sodium, Total	93.5	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	184	mg/L	5	SM2320B-2011	#
Alkalinity, Total	184	mg/L	5	SM2320B-2011	#
Chloride	326	mg/L	5.0	EPA 300.0	#
pH	8.22	pH_Units		S4500HB-11	#
Specific Conductance	1480	umhos/cm	5	SW846 9050A	#
Sulfate	58.3	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1070	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.81	mg/L	0.50	SW846 9060A	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	FIELD BLANK	Collected	08/04/2025 10:10
Lab Sample ID	3428694001	Lab Receipt	08/04/2025 16:40

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	08/13/2025 11:37	MSY	J1
Iron, Total	ND	ND	mg/L	0.067	SW846 6010C	1	08/13/2025 11:37	MSY	J1
Magnesium, Total	ND	ND	mg/L	0.11	SW846 6010C	1	08/13/2025 11:37	MSY	J1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	08/13/2025 11:37	MSY	J1
Potassium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	08/13/2025 11:37	MSY	J1
Sodium, Total	ND	ND	mg/L	0.56	SW846 6010C	1	08/13/2025 11:37	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/06/2025 23:27	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:27	BST	H

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	121%	62 – 133	08/06/2025 23:27	
4-Bromofluorobenzene	460-00-4	106%	79 – 114	08/06/2025 23:27	
Dibromofluoromethane	1868-53-7	99.6%	78 – 116	08/06/2025 23:27	
Toluene-d8	2037-26-5	112%	76 – 127	08/06/2025 23:27	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	08/07/2025 08:28	MYM	B
Alkalinity, Total	ND	ND,1	mg/L	5	SM2320B-2011	1	08/07/2025 08:28	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/06/2025 16:32	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/07/2025 12:21	KMS	A
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	08/05/2025 10:42	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/05/2025 10:42	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	08/05/2025 10:42	J1W	B
pH	5.83	2	pH_Units		S4500HB-11	1	08/07/2025 08:28	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 13:40	ZEB	G

Results

Client Sample ID	FIELD BLANK	Collected	08/04/2025 10:10
Lab Sample ID	3428694001	Lab Receipt	08/04/2025 16:40

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Specific Conductance	ND	ND	umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	08/05/2025 10:42	J1W	B
Total Dissolved Solids	ND	ND	mg/L	25	SM2540C-15	1	08/06/2025 14:40	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/05/2025 22:46	PAG	E
Turbidity	0.55		NTU	0.30	SM2130B-2011	1	08/05/2025 12:33	GMM	B

Results

Client Sample ID	FFMP015W	Collected	08/04/2025 11:50
Lab Sample ID	3428694002	Lab Receipt	08/04/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	63.90		Feet		Field	1	08/04/2025 11:50	BGS	D
Dissolved Oxygen	7.56		mg/L	0.01	Field	1	08/04/2025 11:50	BGS	D
Elev Top MW Casing above MSL	576.40		Feet		Field	1	08/04/2025 11:50	BGS	D
Flow Rate	1.37		gal/min		Field	1	08/04/2025 11:50	BGS	D
Ground Water Elevation	512.50		ft/MSL		Field	1	08/04/2025 11:50	BGS	D
Oxidation-Reduction Potential	219		mV		Field	1	08/04/2025 11:50	BGS	D
pH, Field (SM4500B)	5.63		pH_Units		Field	1	08/04/2025 11:50	BGS	D
Sample Depth	135.00		Feet		Field	1	08/04/2025 11:50	BGS	D
Specific Conductance, Field	456		umhos/cm	1	Field	1	08/04/2025 11:50	BGS	D
Temperature	20.64		Deg. C		Field	1	08/04/2025 11:50	BGS	D
Total Well Depth	149.90		Feet		Field	1	08/04/2025 11:50	BGS	D
Turbidity, Field	2		NTU	1	Field	1	08/04/2025 11:50	BGS	D
Volume in Water Column	126.42		Gallons		Field	1	08/04/2025 11:50	BGS	D
Water Level After Purge	108.70		Feet		Field	1	08/04/2025 11:50	BGS	D
Well Volumes Purged	2.06		Vol		Field	1	08/04/2025 11:50	BGS	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	30.6		mg/L	0.11	SW846 6010C	1	08/13/2025 11:35	MSY	J1
Iron, Total	0.088		mg/L	0.067	SW846 6010C	1	08/13/2025 11:35	MSY	J1
Magnesium, Total	22.9		mg/L	0.11	SW846 6010C	1	08/13/2025 11:35	MSY	J1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6010C	1	08/13/2025 11:35	MSY	J1
Potassium, Total	2.1		mg/L	0.56	SW846 6010C	1	08/13/2025 11:35	MSY	J1
Sodium, Total	19.5		mg/L	0.56	SW846 6010C	1	08/13/2025 11:35	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/07/2025 01:27	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:27	BST	H

Results

Client Sample ID	FFMP015W	Collected	08/04/2025 11:50
Lab Sample ID	3428694002	Lab Receipt	08/04/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	116%	62 – 133	08/07/2025 01:27	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	08/07/2025 01:27	
Dibromofluoromethane	1868-53-7	91.1%	78 – 116	08/07/2025 01:27	
Toluene-d8	2037-26-5	106%	76 – 127	08/07/2025 01:27	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	28		mg/L	5	SM2320B-2011	1	08/07/2025 08:40	MYM	B
Alkalinity, Total	28	1	mg/L	5	SM2320B-2011	1	08/07/2025 08:40	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/06/2025 15:32	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/07/2025 12:21	KMS	A
Chloride	34.9		mg/L	2.0	EPA 300.0	2	08/05/2025 10:54	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/05/2025 10:54	J1W	B
Nitrate-N	28.6	E,3,4	mg/L	1.0	EPA 300.0	2	08/05/2025 10:54	J1W	B
pH	7.54	2	pH_Units		S4500HB-11	1	08/07/2025 08:40	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 13:20	ZEB	G
Specific Conductance	453		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	25.2		mg/L	2.0	EPA 300.0	2	08/05/2025 10:54	J1W	B
Total Dissolved Solids	318		mg/L	25	SM2540C-15	1	08/06/2025 14:40	RAG	B
Total Organic Carbon (TOC)	1.1		mg/L	0.50	SW846 9060A	1	08/05/2025 22:46	PAG	E
Turbidity	0.85		NTU	0.30	SM2130B-2011	1	08/05/2025 12:33	GMM	B

Results

Client Sample ID	FFMP033W	Collected	08/04/2025 11:02
Lab Sample ID	3428694003	Lab Receipt	08/04/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	19.93		Feet		Field	1	08/04/2025 11:01	EMP	D
Dissolved Oxygen	0.93		mg/L	0.01	Field	1	08/04/2025 11:01	EMP	D
Elev Top MW Casing above MSL	516.52		Feet		Field	1	08/04/2025 11:01	EMP	D
Flow Rate	1.58		gal/min		Field	1	08/04/2025 11:01	EMP	D
Ground Water Elevation	496.59		ft/MSL		Field	1	08/04/2025 11:01	EMP	D
Oxidation-Reduction Potential	110		mV		Field	1	08/04/2025 11:01	EMP	D
pH, Field (SM4500B)	5.56		pH_Units		Field	1	08/04/2025 11:01	EMP	D
Sample Depth	79.00		Feet		Field	1	08/04/2025 11:01	EMP	D
Specific Conductance, Field	457		umhos/cm	1	Field	1	08/04/2025 11:01	EMP	D
Temperature	15.78		Deg. C		Field	1	08/04/2025 11:01	EMP	D
Total Well Depth	100.00		Feet		Field	1	08/04/2025 11:01	EMP	D
Turbidity, Field	4		NTU	1	Field	1	08/04/2025 11:01	EMP	D
Volume in Water Column	117.70		Gallons		Field	1	08/04/2025 11:01	EMP	D
Water Level After Purge	38.08		Feet		Field	1	08/04/2025 11:01	EMP	D
Well Volumes Purged	1.68		Vol		Field	1	08/04/2025 11:01	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	38.8		mg/L	0.11	SW846 6010C	1	08/13/2025 11:30	MSY	J1
Iron, Total	4.3		mg/L	0.067	SW846 6010C	1	08/13/2025 11:30	MSY	J1
Magnesium, Total	14.2		mg/L	0.11	SW846 6010C	1	08/13/2025 11:30	MSY	J1
Manganese, Total	0.21		mg/L	0.0056	SW846 6010C	1	08/13/2025 11:30	MSY	J1
Potassium, Total	1.9		mg/L	0.56	SW846 6010C	1	08/13/2025 11:30	MSY	J1
Sodium, Total	19.8		mg/L	0.56	SW846 6010C	1	08/13/2025 11:30	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/07/2025 01:46	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 01:46	BST	H

Results

Client Sample ID	FFMP033W	Collected	08/04/2025 11:02
Lab Sample ID	3428694003	Lab Receipt	08/04/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	120%	62 – 133	08/07/2025 01:46	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	08/07/2025 01:46	
Dibromofluoromethane	1868-53-7	97.5%	78 – 116	08/07/2025 01:46	
Toluene-d8	2037-26-5	109%	76 – 127	08/07/2025 01:46	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	32		mg/L	5	SM2320B-2011	1	08/07/2025 08:51	MYM	B
Alkalinity, Total	32	1	mg/L	5	SM2320B-2011	1	08/07/2025 08:51	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/06/2025 16:38	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/07/2025 12:21	KMS	A
Chloride	88.1	5,6	mg/L	2.0	EPA 300.0	2	08/05/2025 11:05	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/05/2025 11:05	J1W	B
Nitrate-N	10.4	7,8	mg/L	1.0	EPA 300.0	2	08/05/2025 11:05	J1W	B
pH	7.59	2	pH_Units		S4500HB-11	1	08/07/2025 08:51	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 13:44	ZEB	G
Specific Conductance	457		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	12.0		mg/L	2.0	EPA 300.0	2	08/05/2025 11:05	J1W	B
Total Dissolved Solids	354		mg/L	25	SM2540C-15	1	08/06/2025 14:40	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/05/2025 22:46	PAG	E
Turbidity	5.3		NTU	0.30	SM2130B-2011	1	08/05/2025 12:33	GMM	B

Results

Client Sample ID	FFMP30RW	Collected	08/04/2025 14:28
Lab Sample ID	3428694004	Lab Receipt	08/04/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	33.40		Feet		Field	1	08/04/2025 14:27	BGS	D
Dissolved Oxygen	2.32		mg/L	0.01	Field	1	08/04/2025 14:27	BGS	D
Elev Top MW Casing above MSL	562.30		Feet		Field	1	08/04/2025 14:27	BGS	D
Flow Rate	1.79		gal/min		Field	1	08/04/2025 14:27	BGS	D
Ground Water Elevation	528.90		ft/MSL		Field	1	08/04/2025 14:27	BGS	D
Oxidation-Reduction Potential	298		mV		Field	1	08/04/2025 14:27	BGS	D
pH, Field (SM4500B)	5.27		pH_Units		Field	1	08/04/2025 14:27	BGS	D
Sample Depth	85.00		Feet		Field	1	08/04/2025 14:27	BGS	D
Specific Conductance, Field	737		umhos/cm	1	Field	1	08/04/2025 14:27	BGS	D
Temperature	14.10		Deg. C		Field	1	08/04/2025 14:27	BGS	D
Total Well Depth	94.20		Feet		Field	1	08/04/2025 14:27	BGS	D
Turbidity, Field	1		NTU	1	Field	1	08/04/2025 14:27	BGS	D
Volume in Water Column	89.38		Gallons		Field	1	08/04/2025 14:27	BGS	D
Water Level After Purge	44.20		Feet		Field	1	08/04/2025 14:27	BGS	D
Well Volumes Purged	2.10		Vol		Field	1	08/04/2025 14:27	BGS	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	31.2	9	mg/L	0.11	SW846 6010C	1	08/13/2025 10:59	MSY	J1
Iron, Total	0.099		mg/L	0.067	SW846 6010C	1	08/13/2025 10:59	MSY	J1
Magnesium, Total	16.5		mg/L	0.11	SW846 6010C	1	08/13/2025 10:59	MSY	J1
Manganese, Total	1.5		mg/L	0.0056	SW846 6010C	1	08/13/2025 10:59	MSY	J1
Potassium, Total	4.3		mg/L	0.56	SW846 6010C	1	08/13/2025 10:59	MSY	J1
Sodium, Total	82.1		mg/L	0.56	SW846 6010C	1	08/13/2025 10:59	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/07/2025 02:06	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:06	BST	H

Results

Client Sample ID	FFMP30RW	Collected	08/04/2025 14:28
Lab Sample ID	3428694004	Lab Receipt	08/04/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	114%	62 – 133	08/07/2025 02:06	
4-Bromofluorobenzene	460-00-4	91.5%	79 – 114	08/07/2025 02:06	
Dibromofluoromethane	1868-53-7	90.8%	78 – 116	08/07/2025 02:06	
Toluene-d8	2037-26-5	104%	76 – 127	08/07/2025 02:06	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	27		mg/L	5	SM2320B-2011	1	08/07/2025 09:04	MYM	B
Alkalinity, Total	27	1	mg/L	5	SM2320B-2011	1	08/07/2025 09:04	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/14/2025 11:26	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/07/2025 12:21	KMS	A
Chloride	187		mg/L	2.0	EPA 300.0	2	08/05/2025 12:02	J1W	B
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	08/05/2025 12:02	J1W	B
Nitrate-N	6.7		mg/L	1.0	EPA 300.0	2	08/05/2025 12:02	J1W	B
pH	7.47	2	pH_Units		S4500HB-11	1	08/07/2025 09:04	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 13:14	ZEB	G
Specific Conductance	748		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	22.0		mg/L	2.0	EPA 300.0	2	08/05/2025 12:02	J1W	B
Total Dissolved Solids	476		mg/L	25	SM2540C-15	1	08/06/2025 14:40	RAG	B
Total Organic Carbon (TOC)	0.67		mg/L	0.50	SW846 9060A	1	08/05/2025 22:46	PAG	E
Turbidity	2.4		NTU	0.30	SM2130B-2011	1	08/05/2025 12:33	GMM	B

Results

Client Sample ID	FFMP04AW	Collected	08/04/2025 15:34
Lab Sample ID	3428694005	Lab Receipt	08/04/2025 16:40

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	32.80		Feet		Field	1	08/04/2025 15:34	EMP	D
Dissolved Oxygen	0.20		mg/L	0.01	Field	1	08/04/2025 15:34	EMP	D
Elev Top MW Casing above MSL	560.72		Feet		Field	1	08/04/2025 15:34	EMP	D
Flow Rate	1.45		gal/min		Field	1	08/04/2025 15:34	EMP	D
Ground Water Elevation	527.92		ft/MSL		Field	1	08/04/2025 15:34	EMP	D
Oxidation-Reduction Potential	87		mV		Field	1	08/04/2025 15:34	EMP	D
pH, Field (SM4500B)	7.09		pH_Units		Field	1	08/04/2025 15:34	EMP	D
Sample Depth	146.00		Feet		Field	1	08/04/2025 15:34	EMP	D
Specific Conductance, Field	1471		umhos/cm	1	Field	1	08/04/2025 15:34	EMP	D
Temperature	15.52		Deg. C		Field	1	08/04/2025 15:34	EMP	D
Total Well Depth	148.50		Feet		Field	1	08/04/2025 15:34	EMP	D
Turbidity, Field	ND	ND	NTU	1	Field	1	08/04/2025 15:34	EMP	D
Volume in Water Column	170.08		Gallons		Field	1	08/04/2025 15:34	EMP	D
Water Level After Purge	93.25		Feet		Field	1	08/04/2025 15:34	EMP	D
Well Volumes Purged	1.46		Vol		Field	1	08/04/2025 15:34	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	160		mg/L	0.11	SW846 6010C	1	08/13/2025 11:33	MSY	J1
Iron, Total	0.085		mg/L	0.067	SW846 6010C	1	08/13/2025 11:33	MSY	J1
Magnesium, Total	27.4		mg/L	0.11	SW846 6010C	1	08/13/2025 11:33	MSY	J1
Manganese, Total	0.48		mg/L	0.0056	SW846 6010C	1	08/13/2025 11:33	MSY	J1
Potassium, Total	2.9		mg/L	0.56	SW846 6010C	1	08/13/2025 11:33	MSY	J1
Sodium, Total	93.5		mg/L	0.56	SW846 6010C	1	08/13/2025 11:33	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/07/2025 02:46	BST	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/07/2025 02:46	BST	H

Results

Client Sample ID	FFMP04AW	Collected	08/04/2025 15:34
Lab Sample ID	3428694005	Lab Receipt	08/04/2025 16:40

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	115%	62 – 133	08/07/2025 02:46	
4-Bromofluorobenzene	460-00-4	90.6%	79 – 114	08/07/2025 02:46	
Dibromofluoromethane	1868-53-7	92.6%	78 – 116	08/07/2025 02:46	
Toluene-d8	2037-26-5	103%	76 – 127	08/07/2025 02:46	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	184		mg/L	5	SM2320B-2011	1	08/07/2025 09:15	MYM	B
Alkalinity, Total	184	1	mg/L	5	SM2320B-2011	1	08/07/2025 09:15	MYM	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/06/2025 16:35	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/07/2025 12:21	KMS	A
Chloride	326		mg/L	5.0	EPA 300.0	5	08/05/2025 12:14	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	08/05/2025 12:14	J1W	B
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	08/05/2025 12:14	J1W	B
pH	8.22	2	pH_Units		S4500HB-11	1	08/07/2025 09:15	MYM	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/08/2025 13:17	ZEB	G
Specific Conductance	1480		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	58.3		mg/L	5.0	EPA 300.0	5	08/05/2025 12:14	J1W	B
Total Dissolved Solids	1070		mg/L	25	SM2540C-15	1	08/06/2025 14:40	RAG	B
Total Organic Carbon (TOC)	0.81		mg/L	0.50	SW846 9060A	1	08/05/2025 22:46	PAG	E
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	08/05/2025 12:33	GMM	B

Results

Client Sample ID	TRIP BLANK	Collected	08/04/2025 16:40
Lab Sample ID	3428694006	Lab Receipt	08/04/2025 16:40

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/06/2025 23:07	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/06/2025 23:07	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	08/06/2025 23:07	
4-Bromofluorobenzene	460-00-4	92.8%	79 – 114	08/06/2025 23:07	
Dibromofluoromethane	1868-53-7	92.9%	78 – 116	08/06/2025 23:07	
Toluene-d8	2037-26-5	103%	76 – 127	08/06/2025 23:07	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3428694001	FIELD BLANK	SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428694002	FFMP015W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428694003	FFMP033W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428694004	FFMP30RW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3428694005	FFMP04AW	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3428694006	TRIP BLANK	SW846 8260B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3428694001	FIELD BLANK	SW846 3015A	1460194	08/12/2025 13:46	RMH	SW846 6010C	1460390
		N/A	N/A	N/A		SW846 8260B	1458926
		N/A	N/A	N/A		EPA 300.0	1458294
		N/A	N/A	N/A		EPA 410.4	1458975
		N/A	N/A	N/A		S4500HB-11	1458389
		N/A	N/A	N/A		SM 4500-NH3G	1458748
		N/A	N/A	N/A		SM2130B-2011	1458343
		N/A	N/A	N/A		SM2320B-2011	1458389
		N/A	N/A	N/A		SM2540C-15	1458770
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1458426
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428694002	FFMP015W	N/A	N/A	N/A		Field	1461941
		SW846 3015A	1460194	08/12/2025 13:46	RMH	SW846 6010C	1460390
		N/A	N/A	N/A		SW846 8260B	1458926
		N/A	N/A	N/A		EPA 300.0	1458294
		N/A	N/A	N/A		EPA 410.4	1458975
		N/A	N/A	N/A		S4500HB-11	1458389
		N/A	N/A	N/A		SM 4500-NH3G	1458748
		N/A	N/A	N/A		SM2130B-2011	1458343
		N/A	N/A	N/A		SM2320B-2011	1458389
		N/A	N/A	N/A		SM2540C-15	1458770
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1458426
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428694003	FFMP033W	N/A	N/A	N/A		Field	1461943
		SW846 3015A	1460194	08/12/2025 13:46	RMH	SW846 6010C	1460390
		N/A	N/A	N/A		SW846 8260B	1458926
		N/A	N/A	N/A		EPA 300.0	1458294
		N/A	N/A	N/A		EPA 410.4	1458975
		N/A	N/A	N/A		S4500HB-11	1458389
		N/A	N/A	N/A		SM 4500-NH3G	1458748
		N/A	N/A	N/A		SM2130B-2011	1458343
		N/A	N/A	N/A		SM2320B-2011	1458389
		N/A	N/A	N/A		SM2540C-15	1458770
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1458426
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428694004	FFMP30RW	N/A	N/A	N/A		Field	1461941
		SW846 3015A	1460194	08/12/2025 13:46	RMH	SW846 6010C	1460390
		N/A	N/A	N/A		SW846 8260B	1458926
		N/A	N/A	N/A		EPA 300.0	1458294
		N/A	N/A	N/A		EPA 410.4	1458975
		N/A	N/A	N/A		S4500HB-11	1458389
		N/A	N/A	N/A		SM 4500-NH3G	1460497
		N/A	N/A	N/A		SM2130B-2011	1458343
		N/A	N/A	N/A		SM2320B-2011	1458389
		N/A	N/A	N/A		SM2540C-15	1458770
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1458426
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3428694005	FFMP04AW	N/A	N/A	N/A		Field	1461630
		SW846 3015A	1460194	08/12/2025 13:46	RMH	SW846 6010C	1460390
		N/A	N/A	N/A		SW846 8260B	1458926
		N/A	N/A	N/A		EPA 300.0	1458294
		N/A	N/A	N/A		EPA 410.4	1458975
		N/A	N/A	N/A		S4500HB-11	1458389
		N/A	N/A	N/A		SM 4500-NH3G	1458748
		N/A	N/A	N/A		SM2130B-2011	1458343
		N/A	N/A	N/A		SM2320B-2011	1458389
		N/A	N/A	N/A		SM2540C-15	1458770
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1458426
		SW846 9066	1459008	08/07/2025 10:48	ZEB	SW846 9066	1459016
3428694006	TRIP BLANK	N/A	N/A	N/A		SW846 8260B	1458926

ALS

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.

3428694

Logged By: SLS
PM: SJB

94 of

(Completed by Receiving Lab)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike
Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Frey Farm Quarterly GWMP
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

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

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	O-OH	VOC Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, Bicarbonate	FM	Sample Debth for AUX Data	NH3-N, COD	Metals Fe,Mn,Na,Ca,K,Mg	
							Enter Number of Containers Per Sample or Field Results Below.									
1	Field Blank	8-4-25	1010		G	GW	2	1	3	1	1	x	x	1	2	
2	FFMP015W	8-4-25	1150				↓	↓	↓	↓	↓			↓		
3	FFMP033W	8-4-25	1102				↓	↓	↓	↓	↓			↓		
4	FFMP30RW	8-4-25	1428				↓	↓	↓	↓	↓			↓		
5	FFMP04AW	8-4-25	1534				↓	↓	↓	↓	↓			↓	↓	
6	Trip Blank								3							
7																
8																
9																
10																

Temp Taken By: Therm ID: WO Temp (°C) 3

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

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

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

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

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

PWS Contact:_____ PWS Phone #:_____

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

Sample/COC Remarks

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
8-4-25	1640	1	ALS	2	
		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 Workorder 3428694U

Temp °C 3° Therm ID 049 Ice? (Y) N N/A Initials & Date DG 8/4/25

Fedex UPS Client ALS Other Tracking # _____

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location		✓		VC
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		VC
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓		✓	PM 8/4/25
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 3RD QTR 2025 GWMP-FORM 19Q
Workorder 3429466
Report ID 452523 on 8/25/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Aug 07, 2025.

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

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

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

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

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

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

Susan Scherer

Susan Scherer *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3429466001	FFMP038W	Ground Water	08/07/2025 12:02	08/07/2025 14:30	EMP	ALS Environmental-Middletown
3429466002	FFMP039W	Ground Water	08/07/2025 13:15	08/07/2025 14:30	EMP	ALS Environmental-Middletown
3429466003	TRIP BLANK	Water	08/07/2025 00:00	08/07/2025 14:30	EMP	ALS Environmental-Middletown

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The QC sample type STD 10 for method S4500HB-11 was outside the control limits for the analyte pH. The % Recovery was reported as 99.9 and the control limits were 100 to 101.
4	The QC sample type DUP for method SM2540C-15 was outside the control limits for the analyte Total Dissolved Solids. The RPD was reported as 5.15 and the upper control limit is 5.

Detected Results Summary

Client Sample ID	FFMP038W	Collected	08/07/2025 12:02
Lab Sample ID	3429466001	Lab Receipt	08/07/2025 14:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	19.40	Feet		Field	#
Dissolved Oxygen	1.63	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	454.05	Feet		Field	#
Flow Rate	0.87	gal/min		Field	#
Ground Water Elevation	434.65	ft/MSL		Field	#
Oxidation-Reduction Potential	-143	mV		Field	#
pH, Field (SM4500B)	7.91	pH_Units		Field	#
Sample Depth	46.00	Feet		Field	#
Specific Conductance, Field	513	umhos/cm	1	Field	#
Temperature	20.83	Deg. C		Field	#
Total Well Depth	52.00	Feet		Field	#
Turbidity, Field	2	NTU	1	Field	#
Volume in Water Column	47.92	Gallons		Field	#
Water Level After Purge	26.63	Feet		Field	#
Well Volumes Purged	1.63	Vol		Field	#
METALS					
Calcium, Total	71.7	mg/L	0.11	SW846 6010C	#
Iron, Total	1.1	mg/L	0.067	SW846 6010C	#
Magnesium, Total	6.3	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.073	mg/L	0.0056	SW846 6010C	#
Potassium, Total	1.0	mg/L	0.56	SW846 6010C	#
Sodium, Total	13.3	mg/L	0.56	SW846 6010C	#
VOLATILE ORGANICS					
Toluene	1.0	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	80	mg/L	5	SM2320B-2011	#
Alkalinity, Total	80	mg/L	5	SM2320B-2011	#
Chloride	93.8	mg/L	2.0	EPA 300.0	#
Fluoride	0.24	mg/L	0.20	EPA 300.0	#
pH	8.21	pH_Units		S4500HB-11	#
Specific Conductance	510	umhos/cm	5	SW846 9050A	#
Sulfate	12.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	478	mg/L	25	SM2540C-15	#
Turbidity	11	NTU	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	FFMP039W	Collected	08/07/2025 13:15
Lab Sample ID	3429466002	Lab Receipt	08/07/2025 14:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	13.40	Feet		Field	#
Elev Top MW Casing above MSL	455.65	Feet		Field	#
Flow Rate	1.84	gal/min		Field	#
Ground Water Elevation	442.25	ft/MSL		Field	#
Oxidation-Reduction Potential	92	mV		Field	#
pH, Field (SM4500B)	5.73	pH_Units		Field	#
Sample Depth	118.00	Feet		Field	#
Specific Conductance, Field	1211	umhos/cm	1	Field	#
Temperature	14.20	Deg. C		Field	#
Total Well Depth	131.50	Feet		Field	#
Turbidity, Field	6	NTU	1	Field	#
Volume in Water Column	173.61	Gallons		Field	#
Water Level After Purge	26.10	Feet		Field	#
Well Volumes Purged	1.80	Vol		Field	#
METALS					
Calcium, Total	88.7	mg/L	0.11	SW846 6010C	#
Iron, Total	1.1	mg/L	0.067	SW846 6010C	#
Magnesium, Total	29.9	mg/L	0.11	SW846 6010C	#
Manganese, Total	0.95	mg/L	0.0056	SW846 6010C	#
Potassium, Total	7.2	mg/L	0.56	SW846 6010C	#
Sodium, Total	86.7	mg/L	0.56	SW846 6010C	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	43	mg/L	5	SM2320B-2011	#
Alkalinity, Total	43	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.44	mg/L	0.10	SM 4500-NH3G	#
Chloride	294	mg/L	5.0	EPA 300.0	#
pH	7.71	pH_Units		S4500HB-11	#
Specific Conductance	1230	umhos/cm	5	SW846 9050A	#
Sulfate	47.6	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	950	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.3	mg/L	0.50	SW846 9060A	#
Turbidity	4.5	NTU	0.30	SM2130B-2011	#

Results

Client Sample ID	FFMP038W	Collected	08/07/2025 12:02
Lab Sample ID	3429466001	Lab Receipt	08/07/2025 14:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	19.40		Feet		Field	1	08/07/2025 12:02	EMP	D
Dissolved Oxygen	1.63		mg/L	0.01	Field	1	08/07/2025 12:02	EMP	D
Elev Top MW Casing above MSL	454.05		Feet		Field	1	08/07/2025 12:02	EMP	D
Flow Rate	0.87		gal/min		Field	1	08/07/2025 12:02	EMP	D
Ground Water Elevation	434.65		ft/MSL		Field	1	08/07/2025 12:02	EMP	D
Oxidation-Reduction Potential	-143		mV		Field	1	08/07/2025 12:02	EMP	D
pH, Field (SM4500B)	7.91		pH_Units		Field	1	08/07/2025 12:02	EMP	D
Sample Depth	46.00		Feet		Field	1	08/07/2025 12:02	EMP	D
Specific Conductance, Field	513		umhos/cm	1	Field	1	08/07/2025 12:02	EMP	D
Temperature	20.83		Deg. C		Field	1	08/07/2025 12:02	EMP	D
Total Well Depth	52.00		Feet		Field	1	08/07/2025 12:02	EMP	D
Turbidity, Field	2		NTU	1	Field	1	08/07/2025 12:02	EMP	D
Volume in Water Column	47.92		Gallons		Field	1	08/07/2025 12:02	EMP	D
Water Level After Purge	26.63		Feet		Field	1	08/07/2025 12:02	EMP	D
Well Volumes Purged	1.63		Vol		Field	1	08/07/2025 12:02	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	71.7		mg/L	0.11	SW846 6010C	1	08/13/2025 12:50	MSY	J1
Iron, Total	1.1		mg/L	0.067	SW846 6010C	1	08/13/2025 12:50	MSY	J1
Magnesium, Total	6.3		mg/L	0.11	SW846 6010C	1	08/13/2025 12:50	MSY	J1
Manganese, Total	0.073		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:50	MSY	J1
Potassium, Total	1.0		mg/L	0.56	SW846 6010C	1	08/13/2025 12:50	MSY	J1
Sodium, Total	13.3		mg/L	0.56	SW846 6010C	1	08/13/2025 12:50	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Toluene	1.0		ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:36	IXK	H

Results

Client Sample ID	FFMP038W	Collected	08/07/2025 12:02
Lab Sample ID	3429466001	Lab Receipt	08/07/2025 14:30

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	08/16/2025 16:36	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	08/16/2025 16:36	
Dibromofluoromethane	1868-53-7	93.7%	78 – 116	08/16/2025 16:36	
Toluene-d8	2037-26-5	100%	76 – 127	08/16/2025 16:36	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	80		mg/L	5	SM2320B-2011	1	08/15/2025 09:11	JXK	B
Alkalinity, Total	80	1	mg/L	5	SM2320B-2011	1	08/15/2025 09:11	JXK	B
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	08/11/2025 23:31	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	93.8		mg/L	2.0	EPA 300.0	2	08/08/2025 11:21	J1W	B
Fluoride	0.24		mg/L	0.20	EPA 300.0	2	08/08/2025 11:21	J1W	B
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	08/08/2025 11:21	J1W	B
pH	8.21	2,3	pH_Units		S4500HB-11	1	08/14/2025 13:31	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/19/2025 13:28	AKH	G
Specific Conductance	510		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	12.5		mg/L	2.0	EPA 300.0	2	08/08/2025 11:21	J1W	B
Total Dissolved Solids	478	4	mg/L	25	SM2540C-15	1	08/11/2025 16:30	RAG	B
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SW846 9060A	1	08/16/2025 03:45	PAG	E
Turbidity	11		NTU	0.30	SM2130B-2011	1	08/08/2025 07:25	AKH	B

Results

Client Sample ID	FFMP039W	Collected	08/07/2025 13:15
Lab Sample ID	3429466002	Lab Receipt	08/07/2025 14:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	13.40		Feet		Field	1	08/07/2025 13:16	EMP	D
Dissolved Oxygen	ND	ND	mg/L	0.01	Field	1	08/07/2025 13:16	EMP	D
Elev Top MW Casing above MSL	455.65		Feet		Field	1	08/07/2025 13:16	EMP	D
Flow Rate	1.84		gal/min		Field	1	08/07/2025 13:16	EMP	D
Ground Water Elevation	442.25		ft/MSL		Field	1	08/07/2025 13:16	EMP	D
Oxidation-Reduction Potential	92		mV		Field	1	08/07/2025 13:16	EMP	D
pH, Field (SM4500B)	5.73		pH_Units		Field	1	08/07/2025 13:16	EMP	D
Sample Depth	118.00		Feet		Field	1	08/07/2025 13:16	EMP	D
Specific Conductance, Field	1211		umhos/cm	1	Field	1	08/07/2025 13:16	EMP	D
Temperature	14.20		Deg. C		Field	1	08/07/2025 13:16	EMP	D
Total Well Depth	131.50		Feet		Field	1	08/07/2025 13:16	EMP	D
Turbidity, Field	6		NTU	1	Field	1	08/07/2025 13:16	EMP	D
Volume in Water Column	173.61		Gallons		Field	1	08/07/2025 13:16	EMP	D
Water Level After Purge	26.10		Feet		Field	1	08/07/2025 13:16	EMP	D
Well Volumes Purged	1.80		Vol		Field	1	08/07/2025 13:16	EMP	D

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Calcium, Total	88.7		mg/L	0.11	SW846 6010C	1	08/13/2025 12:52	MSY	J1
Iron, Total	1.1		mg/L	0.067	SW846 6010C	1	08/13/2025 12:52	MSY	J1
Magnesium, Total	29.9		mg/L	0.11	SW846 6010C	1	08/13/2025 12:52	MSY	J1
Manganese, Total	0.95		mg/L	0.0056	SW846 6010C	1	08/13/2025 12:52	MSY	J1
Potassium, Total	7.2		mg/L	0.56	SW846 6010C	1	08/13/2025 12:52	MSY	J1
Sodium, Total	86.7		mg/L	0.56	SW846 6010C	1	08/13/2025 12:52	MSY	J1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 16:55	IXK	H

Results

Client Sample ID	FFMP039W	Collected	08/07/2025 13:15
Lab Sample ID	3429466002	Lab Receipt	08/07/2025 14:30

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	08/16/2025 16:55	
4-Bromofluorobenzene	460-00-4	99.5%	79 – 114	08/16/2025 16:55	
Dibromofluoromethane	1868-53-7	94.8%	78 – 116	08/16/2025 16:55	
Toluene-d8	2037-26-5	98.5%	76 – 127	08/16/2025 16:55	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	43		mg/L	5	SM2320B-2011	1	08/15/2025 09:23	JXK	B
Alkalinity, Total	43	1	mg/L	5	SM2320B-2011	1	08/15/2025 09:23	JXK	B
Ammonia-N, Low Level	0.44		mg/L	0.10	SM 4500-NH3G	1	08/12/2025 12:22	AYS	A
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	08/11/2025 10:55	KMS	A
Chloride	294		mg/L	5.0	EPA 300.0	5	08/08/2025 11:34	J1W	B
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	08/08/2025 11:34	J1W	B
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	08/08/2025 11:34	J1W	B
pH	7.71	2,3	pH_Units		S4500HB-11	1	08/14/2025 13:41	JXK	B
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	08/19/2025 13:51	AKH	G
Specific Conductance	1230		umhos/cm	5	SW846 9050A	1	08/12/2025 07:45	MYM	B
Sulfate	47.6		mg/L	5.0	EPA 300.0	5	08/08/2025 11:34	J1W	B
Total Dissolved Solids	950		mg/L	25	SM2540C-15	1	08/11/2025 16:30	RAG	B
Total Organic Carbon (TOC)	1.3		mg/L	0.50	SW846 9060A	1	08/16/2025 03:45	PAG	E
Turbidity	4.5		NTU	0.30	SM2130B-2011	1	08/08/2025 07:25	AKH	B

Results

Client Sample ID	TRIP BLANK	Collected	08/07/2025 00:00
Lab Sample ID	3429466003	Lab Receipt	08/07/2025 14:30

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	08/16/2025 15:36	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	08/16/2025 15:36	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	08/16/2025 15:36	
Dibromofluoromethane	1868-53-7	96.2%	78 – 116	08/16/2025 15:36	
Toluene-d8	2037-26-5	99.3%	76 – 127	08/16/2025 15:36	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3429466001	FFMP038W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429466002	FFMP039W	Field	N/A	
		SW846 6010C	SW846 3015A	
		SW846 8260B	N/A	
		EPA 300.0	N/A	
		EPA 410.4	N/A	
		S4500HB-11	N/A	
		SM 4500-NH3G	N/A	
		SM2130B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9060A	N/A	
		SW846 9066	SW846 9066	
3429466003	TRIP BLANK	SW846 8260B	N/A	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3429466001	FFMP038W	N/A	N/A	N/A		Field	1461947
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1461044
		N/A	N/A	N/A		EPA 300.0	1459201
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1459884
		N/A	N/A	N/A		SM2130B-2011	1459175
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1459910
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1460912
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429466002	FFMP039W	N/A	N/A	N/A		Field	1461947
		SW846 3015A	1460191	08/12/2025 12:33	RMH	SW846 6010C	1460391
		N/A	N/A	N/A		SW846 8260B	1461044
		N/A	N/A	N/A		EPA 300.0	1459201
		N/A	N/A	N/A		EPA 410.4	1459875
		N/A	N/A	N/A		S4500HB-11	1460044
		N/A	N/A	N/A		SM 4500-NH3G	1460164
		N/A	N/A	N/A		SM2130B-2011	1459175
		N/A	N/A	N/A		SM2320B-2011	1460709
		N/A	N/A	N/A		SM2540C-15	1459910
		N/A	N/A	N/A		SW846 9050A	1459883
		N/A	N/A	N/A		SW846 9060A	1460912
		SW846 9066	1461233	08/18/2025 10:49	AKH	SW846 9066	1461237
3429466003	TRIP BLANK	N/A	N/A	N/A		SW846 8260B	1461044

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.

3429466
Logged By: SLS
PM: SJB

1 of 1

(Completed by Receiving Lab)

Client Name: Lancaster County Solid Waste MA

Address: 1299 Harrisburg Pike, Lancaster PA 17604

Contact: Dan Brown
Phone#: 717-553-5864
Project Name/#: Frey Farm Quarterly GWMP
Bill To: Lancaster County Solid Waste MA
Purchase Order #:

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

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

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	O-OH	VOC Form 19Q	pH, CL, SpC, F, SO4, NO3, Tb, TDS	Alkalinity, Bicarbonate	FM	Sample Depth for AUX Data	NH3-N, COD	Metals Fe,Mn,Na,Ca,K,Mg
	Enter Number of Containers Per Sample or Field Results Below.														
1	FFMPO38W	8-7-25	1202		G	GW	2	1	2	1	1	x	x	1	2
2	FFMPO39W	8-7-25	NA		↓	↓	2	1	2	1	1	x	x	1	2
3		ZP	1315												
4															
5															
6															
7															
8															
9															
10															

Temp Taken By: Therm ID: 309 WO Temp (°C) 1

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

K2 TBS rec MS8825

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

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

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
8-7-25	1430	1	ALS	2	
		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

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Middletown Sample Condition Form

Client LCSWMA Workorder 34294466

Temp °C 1 Therm ID 309 Ice? (Y) N N/A Initials & Date CW 8825

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		UC
•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		X	2 ice 8/26/25
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:

_____

_____

_____

Rev. 1/2/202

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8/25/2025 1:22 PM