

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 63.79 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.90 ft Elevation of Water Level: 512.61 ft./MSL

Sampling Depth: 135 ft Volume of Water Column: 125.00 gal

Total Well Depth: 148.9 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.0

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/5/2025 Sample Collection Time: 10:12

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413750001 Final Lab Analysis Completion Date: 5/19/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP015W

Sample Date 5/5/2025

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	SM20-4500D
BICARBONATE ALKALINITY	35	SM20-2320B
CALCIUM, TOTAL	30	SW846 6010B
CALCIUM, DISSOLVED	27.8	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	34	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	24.3	SW846 6010B
MAGNESIUM, DISSOLVED	23.1	SW846 6010B
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	5.6 ND	SW846 6010B
NITRATE-NITROGEN	32.8	EPA 300
pH-FIELD (SU)	5.46	FIELD
pH-LAB (SU)	5.97	SM20-4500B
POTASSIUM, TOTAL	2.1	SW846 6010B
POTASSIUM, DISSOLVED	2	SW846 6010B
SODIUM, TOTAL	20	SW846 6010B
SODIUM, DISSOLVED	19.1	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	469	FIELD
SPEC. COND., LAB (umhos/cm)	493	EPA 120.1
SULFATE	28.8	EPA 300
ALKALINITY	35	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	364	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.2	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.45	SM20- 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 5/5/2025

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.

I.D. No 101389

Monitoring Point No. FFMP015W

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	55	SW846 6010B
BARIUM, DISSOLVED	50	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	7.3	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	18	SW846 6010B
ZINC, DISSOLVED	17	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP015W

Sample Date 5/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP015W

Sample Date 5/5/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	61	SW846 6010B
NICKEL	6.7	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



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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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: _____

Sampling Point Latitude: _____ ° _____ ' _____ " Longitude: _____ ° _____ ' _____ "

Depth to Water Level: 10.51 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: _____ ft Elevation of Water Level: 462.37 ft./MSL

Sampling Depth: 25.85 ft Volume of Water Column: _____ gal

Total Well Depth: 121 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.5

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/5/2025 Sample Collection Time: 11:29

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413750002 Final Lab Analysis Completion Date: 5/19/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP034W

Sample Date 5/5/2025

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	SM20-4500D
BICARBONATE ALKALINITY	40	SM20-2320B
CALCIUM, TOTAL	51.3	SW846 6010B
CALCIUM, DISSOLVED	47.2	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	147	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	800	SW846 6010B
IRON, DISSOLVED (ug/l)	120	SW846 6010B
MAGNESIUM, TOTAL	20.5	SW846 6010B
MAGNESIUM, DISSOLVED	18.9	SW846 6010B
MANGANESE, TOTAL (ug/l)	90	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	74	SW846 6010B
NITRATE-NITROGEN	10.8	EPA 300
pH-FIELD (SU)	5.75	FIELD
pH-LAB (SU)	5.95	SM20-4500B
POTASSIUM, TOTAL	2.6	SW846 6010B
POTASSIUM, DISSOLVED	2.4	SW846 6010B
SODIUM, TOTAL	42.9	SW846 6010B
SODIUM, DISSOLVED	40.3	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	712	FIELD
SPEC. COND., LAB (umhos/cm)	709	EPA 120.1
SULFATE	31	EPA 300
ALKALINITY	40	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	534	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.99	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	7.9	SM20- 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 5/5/2025

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.

I.D. No 101389

Monitoring Point No. FFMP034W

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	52	SW846 6010B
BARIUM, DISSOLVED	48	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP034W

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP034W

Sample Date 5/5/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

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General Reference: Section 273.284
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SECTION A. APPLICANT IDENTIFIER

Applicant/permittee: Lancaster County Solid Waste Mana

Site Name: Frey Farm Landfill

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 41.91 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.00 ft Elevation of Water Level: 435.39 ft./MSL

Sampling Depth: 55 ft Volume of Water Column: 24.36 gal

Total Well Depth: 58.5 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 2.3

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/5/2025 Sample Collection Time: 12:06

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413750003 Final Lab Analysis Completion Date: 5/19/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP029W

Sample Date 5/5/2025

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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	SM20-4500D
BICARBONATE ALKALINITY	12	SM20-2320B
CALCIUM, TOTAL	20.3	SW846 6010B
CALCIUM, DISSOLVED	18.8	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	94.3	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	13.2	SW846 6010B
MAGNESIUM, DISSOLVED	12.6	SW846 6010B
MANGANESE, TOTAL (ug/l)	40	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	39	SW846 6010B
NITRATE-NITROGEN	3.4	EPA 300
pH-FIELD (SU)	4.68	FIELD
pH-LAB (SU)	6.09	SM20-4500B
POTASSIUM, TOTAL	2.5	SW846 6010B
POTASSIUM, DISSOLVED	2.4	SW846 6010B
SODIUM, TOTAL	27.9	SW846 6010B
SODIUM, DISSOLVED	27	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	236	FIELD
SPEC. COND., LAB (umhos/cm)	393	EPA 120.1
SULFATE	8.7	EPA 300
ALKALINITY	12	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	286	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.3 ND	SM20- 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 5/5/2025

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.

I.D. No 101389

Monitoring Point No. FFMP029W

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	93	SW846 6010B
BARIUM, DISSOLVED	88	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	7.4	SW846 6010B
ZINC, DISSOLVED	7.4	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP029W

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP029W

Sample Date 5/5/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 36.08 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.52 ft Elevation of Water Level: 524.64 ft./MSL

Sampling Depth: 146 ft Volume of Water Column: 389.84 gal

Total Well Depth: 301.52 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.0

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/5/2025 Sample Collection Time: 14:39

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413750005 Final Lab Analysis Completion Date: 5/19/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP04AW

Sample Date 5/5/2025

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	SM20-4500D
BICARBONATE ALKALINITY	187	SM20-2320B
CALCIUM, TOTAL	153	SW846 6010B
CALCIUM, DISSOLVED	141	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	324	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	27.9	SW846 6010B
MAGNESIUM, DISSOLVED	25.4	SW846 6010B
MANGANESE, TOTAL (ug/l)	490	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	440	SW846 6010B
NITRATE-NITROGEN	2.5 ND	EPA 300
pH-FIELD (SU)	7.04	FIELD
pH-LAB (SU)	6.6	SM20-4500B
POTASSIUM, TOTAL	2.7	SW846 6010B
POTASSIUM, DISSOLVED	2.6	SW846 6010B
SODIUM, TOTAL	90.4	SW846 6010B
SODIUM, DISSOLVED	86.6	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1491	FIELD
SPEC. COND., LAB (umhos/cm)	1500	EPA 120.1
SULFATE	55.6	EPA 300
ALKALINITY	187	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1160	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.87	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.95	SM20- 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. FFMP04AW

Sample Date 5/5/2025

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.

I.D. No 101389

Monitoring Point No. FFMP04AW

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	190	SW846 6010B
BARIUM, DISSOLVED	170	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP04AW

Sample Date 5/5/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP04AW
Sample Date	5/5/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	16	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 37.82 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.20 ft Elevation of Water Level: 524.48 ft./MSL

Sampling Depth: 85 ft Volume of Water Column: 76.63 gal

Total Well Depth: 90 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/5/2025 Sample Collection Time: 15:08

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413750006 Final Lab Analysis Completion Date: 5/19/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP30RW

Sample Date 5/5/2025

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	SM20-4500D
BICARBONATE ALKALINITY	50	SM20-2320B
CALCIUM, TOTAL	63.7	SW846 6010B
CALCIUM, DISSOLVED	59.6	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	312	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	20.6	SW846 6010B
MAGNESIUM, DISSOLVED	19.4	SW846 6010B
MANGANESE, TOTAL (ug/l)	3000	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	2800	SW846 6010B
NITRATE-NITROGEN	5.1	EPA 300
pH-FIELD (SU)	5.46	FIELD
pH-LAB (SU)	6.68	SM20-4500B
POTASSIUM, TOTAL	9.9	SW846 6010B
POTASSIUM, DISSOLVED	9.5	SW846 6010B
SODIUM, TOTAL	138	SW846 6010B
SODIUM, DISSOLVED	136	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1430	FIELD
SPEC. COND., LAB (umhos/cm)	1280	EPA 120.1
SULFATE	55.5	EPA 300
ALKALINITY	50	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	826	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.97	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2	SM20- 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 5/5/2025

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.

I.D. No 101389

Monitoring Point No. FFMP30RW

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	100	SW846 6010B
BARIUM, DISSOLVED	95	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.69	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	14	SW846 6010B
ZINC, DISSOLVED	15	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP30RW

Sample Date 5/5/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP30RW
Sample Date	5/5/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	16	SW846 6010B
NICKEL	29	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 53.93 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.20 ft Elevation of Water Level: 536.97 ft./MSL

Sampling Depth: 130 ft Volume of Water Column: 136.98 gal

Total Well Depth: 147.2 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.0

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 9:49

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984001 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP03AW

Sample Date 5/6/2025

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	SM20-4500D
BICARBONATE ALKALINITY	15	SM20-2320B
CALCIUM, TOTAL	20.3	SW846 6010B
CALCIUM, DISSOLVED	21.1	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	57.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	17.3	SW846 6010B
MAGNESIUM, DISSOLVED	18.6	SW846 6010B
MANGANESE, TOTAL (ug/l)	370	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	380	SW846 6010B
NITRATE-NITROGEN	20.8	EPA 300
pH-FIELD (SU)	5.01	FIELD
pH-LAB (SU)	7.5	SM20-4500B
POTASSIUM, TOTAL	1.5	SW846 6010B
POTASSIUM, DISSOLVED	1.6	SW846 6010B
SODIUM, TOTAL	16.5	SW846 6010B
SODIUM, DISSOLVED	18	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	397	FIELD
SPEC. COND., LAB (umhos/cm)	402	EPA 120.1
SULFATE	3.3	EPA 300
ALKALINITY	15	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	282	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.75	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP03AW

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	63	SW846 6010B
BARIUM, DISSOLVED	66	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	6.3	SW846 6010B
COPPER, DISSOLVED	6.6	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	24	SW846 6010B
ZINC, DISSOLVED	25	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP03AW

Sample Date 5/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP03AW

Sample Date 5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	12	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 89.43 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 3.30 ft Elevation of Water Level: 457.97 ft./MSL

Sampling Depth: 105 ft Volume of Water Column: 36.08 gal

Total Well Depth: 114 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 12:37

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984002 Final Lab Analysis Completion Date: 5/28/2025

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

Comments: _____

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	SM20-4500D
BICARBONATE ALKALINITY	65	SM20-2320B
CALCIUM, TOTAL	60.9	SW846 6010B
CALCIUM, DISSOLVED	62.4	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	140	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	15.5	SW846 6010B
MAGNESIUM, DISSOLVED	16.8	SW846 6010B
MANGANESE, TOTAL (ug/l)	600	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	630	SW846 6010B
NITRATE-NITROGEN	1.6	EPA 300
pH-FIELD (SU)	5.59	FIELD
pH-LAB (SU)	8.04	SM20-4500B
POTASSIUM, TOTAL	7.7	SW846 6010B
POTASSIUM, DISSOLVED	8.3	SW846 6010B
SODIUM, TOTAL	51.6	SW846 6010B
SODIUM, DISSOLVED	55.7	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	791	FIELD
SPEC. COND., LAB (umhos/cm)	797	EPA 120.1
SULFATE	97.9	EPA 300
ALKALINITY	65	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	468	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.9	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.3 ND	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP26RW

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	73	SW846 6010B
BARIUM, DISSOLVED	78	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	8.4	SW846 6010B
ZINC, DISSOLVED	9.4	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP26RW

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP26RW
Sample Date	5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	22	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 64.58 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.70 ft Elevation of Water Level: 472.82 ft./MSL

Sampling Depth: 135 ft Volume of Water Column: 125.45 gal

Total Well Depth: 150 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 13:07

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984003 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP005W

Sample Date 5/6/2025

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	SM20-4500D
BICARBONATE ALKALINITY	62	SM20-2320B
CALCIUM, TOTAL	68.9	SW846 6010B
CALCIUM, DISSOLVED	71.6	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	174	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	17.8	SW846 6010B
MAGNESIUM, DISSOLVED	19.1	SW846 6010B
MANGANESE, TOTAL (ug/l)	150	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	170	SW846 6010B
NITRATE-NITROGEN	2.1	EPA 300
pH-FIELD (SU)	5.54	FIELD
pH-LAB (SU)	8	SM20-4500B
POTASSIUM, TOTAL	3.1	SW846 6010B
POTASSIUM, DISSOLVED	3.3	SW846 6010B
SODIUM, TOTAL	50.4	SW846 6010B
SODIUM, DISSOLVED	53.9	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	849	FIELD
SPEC. COND., LAB (umhos/cm)	864	EPA 120.1
SULFATE	84.1	EPA 300
ALKALINITY	62	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	576	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.5	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.6	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP005W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	46	SW846 6010B
BARIUM, DISSOLVED	48	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP005W

Sample Date 5/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP005W

Sample Date 5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 43.08 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.45 ft Elevation of Water Level: 434.48 ft./MSL

Sampling Depth: 65 ft Volume of Water Column: 39.54 gal

Total Well Depth: 70 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.3

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 14:55

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984004 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP035W

Sample Date 5/6/2025

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	SM20-4500D
BICARBONATE ALKALINITY	138	SM20-2320B
CALCIUM, TOTAL	91.1	SW846 6010B
CALCIUM, DISSOLVED	95.5	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	162	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	16.5	SW846 6010B
MAGNESIUM, DISSOLVED	18.1	SW846 6010B
MANGANESE, TOTAL (ug/l)	15	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	15	SW846 6010B
NITRATE-NITROGEN	7.1	EPA 300
pH-FIELD (SU)	6.58	FIELD
pH-LAB (SU)	8.18	SM20-4500B
POTASSIUM, TOTAL	2.9	SW846 6010B
POTASSIUM, DISSOLVED	3.1	SW846 6010B
SODIUM, TOTAL	45.8	SW846 6010B
SODIUM, DISSOLVED	49.6	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	919	FIELD
SPEC. COND., LAB (umhos/cm)	877	EPA 120.1
SULFATE	45.9	EPA 300
ALKALINITY	138	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	626	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.98	SM20-5310B
TOTAL PHENOLICS (ug/l)	5	SW846 9066
TURBIDITY (N.T.U.)	1.2	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP035W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	96	SW846 6010B
BARIUM, DISSOLVED	100	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	9.8	SW846 6010B
ZINC, DISSOLVED	13	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP035W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP035W
Sample Date	5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	8.2	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 50.9 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.91 ft Elevation of Water Level: 427.33 ft./MSL

Sampling Depth: 135 ft Volume of Water Column: 130.86 gal

Total Well Depth: 140 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.4

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 15:35

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984005 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP036W

Sample Date 5/6/2025

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	SM20-4500D
BICARBONATE ALKALINITY	103	SM20-2320B
CALCIUM, TOTAL	47.9	SW846 6010B
CALCIUM, DISSOLVED	52.6	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	35	EPA 300
FLUORIDE	0.27	EPA 300
IRON, TOTAL (ug/l)	990	SW846 6010B
IRON, DISSOLVED (ug/l)	670	SW846 6010B
MAGNESIUM, TOTAL	5	SW846 6010B
MAGNESIUM, DISSOLVED	5.5	SW846 6010B
MANGANESE, TOTAL (ug/l)	90	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	100	SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.98	FIELD
pH-LAB (SU)	8.41	SM20-4500B
POTASSIUM, TOTAL	0.77	SW846 6010B
POTASSIUM, DISSOLVED	0.89	SW846 6010B
SODIUM, TOTAL	14.3	SW846 6010B
SODIUM, DISSOLVED	15.7	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	373	FIELD
SPEC. COND., LAB (umhos/cm)	380	EPA 120.1
SULFATE	34.1	EPA 300
ALKALINITY	103	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	234	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	5.8	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP036W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	150	SW846 6010B
BARIUM, DISSOLVED	150	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP036W

Sample Date 5/6/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP036W

Sample Date 5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 20.7 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 0.49 ft Elevation of Water Level: 495.82 ft./MSL

Sampling Depth: 79 ft Volume of Water Column: 110.59 gal

Total Well Depth: 96 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 2.3

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/6/2025 Sample Collection Time: 11:01

Sample Collector's Name: Collected by Client

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3413984008 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP033W

Sample Date 5/6/2025

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	0.23	SM20-4500D
BICARBONATE ALKALINITY	33	SM20-2320B
CALCIUM, TOTAL	34.4	SW846 6010B
CALCIUM, DISSOLVED	34.3	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	84.5	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	42500	SW846 6010B
IRON, DISSOLVED (ug/l)	2900	SW846 6010B
MAGNESIUM, TOTAL	12.9	SW846 6010B
MAGNESIUM, DISSOLVED	13	SW846 6010B
MANGANESE, TOTAL (ug/l)	240	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	180	SW846 6010B
NITRATE-NITROGEN	10.1	EPA 300
pH-FIELD (SU)	5.42	FIELD
pH-LAB (SU)	7.79	SM20-4500B
POTASSIUM, TOTAL	1.8	SW846 6010B
POTASSIUM, DISSOLVED	1.8	SW846 6010B
SODIUM, TOTAL	18.5	SW846 6010B
SODIUM, DISSOLVED	19.6	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	448	FIELD
SPEC. COND., LAB (umhos/cm)	457	EPA 120.1
SULFATE	11.9	EPA 300
ALKALINITY	33	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	308	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	150	SM20- 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 5/6/2025

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.

I.D. No 101389

Monitoring Point No. FFMP033W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	75	SW846 6010B
BARIUM, DISSOLVED	68	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.4	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	6.9	SW846 6010B
ZINC, DISSOLVED	8.9	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP033W

Sample Date 5/6/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP033W
Sample Date	5/6/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 44.29 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.00 ft Elevation of Water Level: 436.41 ft./MSL

Sampling Depth: 135 ft Volume of Water Column: 155.99 gal

Total Well Depth: 150.5 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/7/2025 Sample Collection Time: 10:28

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414236001 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP017W

Sample Date 5/7/2025

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	0.17	SM20-4500D
BICARBONATE ALKALINITY	98	SM20-2320B
CALCIUM, TOTAL	136	SW846 6010B
CALCIUM, DISSOLVED	134	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	515	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	46.3	SW846 6010B
MAGNESIUM, DISSOLVED	46.8	SW846 6010B
MANGANESE, TOTAL (ug/l)	1200	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	1200	SW846 6010B
NITRATE-NITROGEN	3.5	EPA 300
pH-FIELD (SU)	5.99	FIELD
pH-LAB (SU)	7.9	SM20-4500B
POTASSIUM, TOTAL	14.6	SW846 6010B
POTASSIUM, DISSOLVED	14.8	SW846 6010B
SODIUM, TOTAL	154	SW846 6010B
SODIUM, DISSOLVED	173	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1947	FIELD
SPEC. COND., LAB (umhos/cm)	2030	EPA 120.1
SULFATE	130	EPA 300
ALKALINITY	98	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	1190	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2	SM20- 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 5/7/2025

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.

I.D. No 101389

Monitoring Point No. FFMP017W

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	110	SW846 6010B
BARIUM, DISSOLVED	110	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	9.5	SW846 6010B
ZINC, DISSOLVED	12	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP017W

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP017W

Sample Date 5/7/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	9.700001	SW846 6010B
NICKEL	8	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]



DEP USE ONLY

Date Received

FORM 19
MUNICIPAL WASTE LANDFILL
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

SECTION A. APPLICANT IDENTIFIER

Facility ID (as issued by DEP): 101389

SECTION B. FACILITY INFORMATION

Comments:

I.D. No 101389

Monitoring Point No. FFMP02DW

Sample Date 5/7/2025

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	SM20-4500D
BICARBONATE ALKALINITY	126	SM20-2320B
CALCIUM, TOTAL	110	SW846 6010B
CALCIUM, DISSOLVED	114	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	354	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	490	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	18.9	SW846 6010B
MAGNESIUM, DISSOLVED	19.1	SW846 6010B
MANGANESE, TOTAL (ug/l)	30	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	33	SW846 6010B
NITRATE-NITROGEN	7.2	EPA 300
pH-FIELD (SU)	7.3	FIELD
pH-LAB (SU)	8.14	SM20-4500B
POTASSIUM, TOTAL	1.4	SW846 6010B
POTASSIUM, DISSOLVED	1.5	SW846 6010B
SODIUM, TOTAL	126	SW846 6010B
SODIUM, DISSOLVED	142	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	1508	FIELD
SPEC. COND., LAB (umhos/cm)	1460	EPA 120.1
SULFATE	43.6	EPA 300
ALKALINITY	126	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	900	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.93	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	7.2	SM20- 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 5/7/2025

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.

I.D. No 101389

Monitoring Point No. FFMP02DW

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	170	SW846 6010B
BARIUM, DISSOLVED	170	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP02DW

Sample Date 5/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP02DW
Sample Date	5/7/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	9.3	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 22.48 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.15 ft Elevation of Water Level: 431.56 ft./MSL

Sampling Depth: 46 ft Volume of Water Column: 40.42 gal

Total Well Depth: 50 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/7/2025 Sample Collection Time: 13:43

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414236003 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP038W

Sample Date 5/7/2025

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	SM20-4500D
BICARBONATE ALKALINITY	79	SM20-2320B
CALCIUM, TOTAL	62.4	SW846 6010B
CALCIUM, DISSOLVED	61.9	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	97	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	780	SW846 6010B
IRON, DISSOLVED (ug/l)	1000	SW846 6010B
MAGNESIUM, TOTAL	5.7	SW846 6010B
MAGNESIUM, DISSOLVED	5.8	SW846 6010B
MANGANESE, TOTAL (ug/l)	53	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	67	SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	8.14	FIELD
pH-LAB (SU)	8.18	SM20-4500B
POTASSIUM, TOTAL	0.9	SW846 6010B
POTASSIUM, DISSOLVED	0.94	SW846 6010B
SODIUM, TOTAL	11.4	SW846 6010B
SODIUM, DISSOLVED	13.3	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	464	FIELD
SPEC. COND., LAB (umhos/cm)	490	EPA 120.1
SULFATE	14.1	EPA 300
ALKALINITY	79	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	334	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	7.9	SM20- 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 5/7/2025

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	1.1	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.

I.D. No 101389

Monitoring Point No. FFMP038W

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	100	SW846 6010B
BARIUM, DISSOLVED	98	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP038W

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP038W
Sample Date	5/7/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ 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: 16.44 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.04 ft Elevation of Water Level: 439.02 ft./MSL

Sampling Depth: 118 ft Volume of Water Column: 166.78 gal

Total Well Depth: 130 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.1

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/7/2025 Sample Collection Time: 14:10

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414236004 Final Lab Analysis Completion Date: 5/21/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP039W

Sample Date 5/7/2025

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	0.32	SM20-4500D
BICARBONATE ALKALINITY	47	SM20-2320B
CALCIUM, TOTAL	70.1	SW846 6010B
CALCIUM, DISSOLVED	73.8	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	285	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	16700	SW846 6010B
IRON, DISSOLVED (ug/l)	1400	SW846 6010B
MAGNESIUM, TOTAL	26.7	SW846 6010B
MAGNESIUM, DISSOLVED	26.9	SW846 6010B
MANGANESE, TOTAL (ug/l)	850	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	840	SW846 6010B
NITRATE-NITROGEN	2.6	EPA 300
pH-FIELD (SU)	5.82	FIELD
pH-LAB (SU)	7.63	SM20-4500B
POTASSIUM, TOTAL	6.5	SW846 6010B
POTASSIUM, DISSOLVED	6.7	SW846 6010B
SODIUM, TOTAL	74.6	SW846 6010B
SODIUM, DISSOLVED	79.6	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	921	FIELD
SPEC. COND., LAB (umhos/cm)	1100	EPA 120.1
SULFATE	43.2	EPA 300
ALKALINITY	47	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	680	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	1.2	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	170	SM20- 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 5/7/2025

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.

I.D. No 101389

Monitoring Point No. FFMP039W

Sample Date 5/7/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	97	SW846 6010B
BARIUM, DISSOLVED	94	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	7.2	SW846 6010B
ZINC, DISSOLVED	6.4	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP039W

Sample Date 5/7/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP039W
Sample Date	5/7/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.9	SW846 6010B
NICKEL	7.5	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

I.D. No 101389

Monitoring Point No. FFMP032W

Sample Date 5/8/2025

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	0.51	SM20-4500D
BICARBONATE ALKALINITY	58	SM20-2320B
CALCIUM, TOTAL	17.2	SW846 6010B
CALCIUM, DISSOLVED	17.8	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	31.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	8700	SW846 6010B
IRON, DISSOLVED (ug/l)	8500	SW846 6010B
MAGNESIUM, TOTAL	6.3	SW846 6010B
MAGNESIUM, DISSOLVED	6.8	SW846 6010B
MANGANESE, TOTAL (ug/l)	750	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	810	SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	6.21	FIELD
pH-LAB (SU)	8.05	SM20-4500B
POTASSIUM, TOTAL	1.3	SW846 6010B
POTASSIUM, DISSOLVED	1.4	SW846 6010B
SODIUM, TOTAL	12.2	SW846 6010B
SODIUM, DISSOLVED	12.8	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	250	FIELD
SPEC. COND., LAB (umhos/cm)	228	EPA 120.1
SULFATE	2 ND	EPA 300
ALKALINITY	58	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	126	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.66	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	75	SM20- 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 5/8/2025

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.

I.D. No 101389

Monitoring Point No. FFMP032W

Sample Date 5/8/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	5.6 ND	SW846 6010B
BARIUM, DISSOLVED	5.6 ND	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP032W

Sample Date 5/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP032W

Sample Date 5/8/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]



Date Prepared/Revised
07/09/2025

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

Facility 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 (DD° 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: 14.93 ft

Measured from: Land Surface X TOC

Casing Stickup: _____ ft

Elevation of Water Level: 494.97 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: 2.8

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/8/2025

Sample Collection Time: 12:55

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414541002 Final Lab Analysis CompletionDate: 5/21/2025

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

Comments:

I.D. No 101389

Monitoring Point No. FFMP02SW

Sample Date 5/8/2025

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	SM20-4500D
BICARBONATE ALKALINITY	21	SM20-2320B
CALCIUM, TOTAL	15.6	SW846 6010B
CALCIUM, DISSOLVED	16.5	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	30.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	230	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	5.7	SW846 6010B
MAGNESIUM, DISSOLVED	6.3	SW846 6010B
MANGANESE, TOTAL (ug/l)	12	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	11	SW846 6010B
NITRATE-NITROGEN	7.7	EPA 300
pH-FIELD (SU)	5.19	FIELD
pH-LAB (SU)	7.5	SM20-4500B
POTASSIUM, TOTAL	4	SW846 6010B
POTASSIUM, DISSOLVED	4.5	SW846 6010B
SODIUM, TOTAL	24.3	SW846 6010B
SODIUM, DISSOLVED	26.1	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	282	FIELD
SPEC. COND., LAB (umhos/cm)	292	EPA 120.1
SULFATE	36.3	EPA 300
ALKALINITY	21	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	186	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	2	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	7.2	SM20- 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 5/8/2025

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.

I.D. No 101389

Monitoring Point No. FFMP02SW

Sample Date 5/8/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	51	SW846 6010B
BARIUM, DISSOLVED	53	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	8.8	SW846 6010B
COPPER, DISSOLVED	7.6	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	25	SW846 6010B
ZINC, DISSOLVED	25	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP02SW

Sample Date 5/8/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No	101389
Monitoring Point No.	FFMP02SW
Sample Date	5/8/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☒ 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: 70.11 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.38 ft Elevation of Water Level: 542.55 ft./MSL

Sampling Depth: 130 ft Volume of Water Column: 102.64 gal

Total Well Depth: 140 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.4

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/9/2025 Sample Collection Time: 9:17

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414804001 Final Lab Analysis Completion Date: 5/22/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP031W

Sample Date 5/9/2025

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	SM20-4500D
BICARBONATE ALKALINITY	91	SM20-2320B
CALCIUM, TOTAL	49.9	SW846 6010B
CALCIUM, DISSOLVED	48.4	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	21.7	EPA 300
FLUORIDE	0.27	EPA 300
IRON, TOTAL (ug/l)	4000	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	4	SW846 6010B
MAGNESIUM, DISSOLVED	4.2	SW846 6010B
MANGANESE, TOTAL (ug/l)	280	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	310	SW846 6010B
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.49	FIELD
pH-LAB (SU)	8.22	SM20-4500B
POTASSIUM, TOTAL	1.5	SW846 6010B
POTASSIUM, DISSOLVED	1.5	SW846 6010B
SODIUM, TOTAL	8.4	SW846 6010B
SODIUM, DISSOLVED	8.6	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	344	FIELD
SPEC. COND., LAB (umhos/cm)	348	EPA 120.1
SULFATE	46.3	EPA 300
ALKALINITY	91	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	238	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	36	SM20- 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 5/9/2025

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.

I.D. No 101389

Monitoring Point No. FFMP031W

Sample Date 5/9/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	66	SW846 6010B
BARIUM, DISSOLVED	62	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	5.6 ND	SW846 6010B
COPPER, DISSOLVED	5.6 ND	SW846 6010B
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010B
LEAD, DISSOLVED	2.2 ND	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	5.6 ND	SW846 6010B
ZINC, DISSOLVED	5.6 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP031W

Sample Date 5/9/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-A. Organics (Enter all data in ug/l)**

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP031W

Sample Date 5/9/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	5.6 ND	SW846 6010B
NICKEL	5.6 ND	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**



Date Prepared/Revised
07/09/2025

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

Facility 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 ☒ Well ☐ Spring ☐ Stream ☐ Other
☒ 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: 68.31 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.60 ft Elevation of Water Level: 544.89 ft./MSL

Sampling Depth: 85 ft Volume of Water Column: 148.76 gal

Total Well Depth: 169.6 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 1.2

Sample Field Filtered (must be 0.45 micron)?: ☒ Yes ☐ No

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 5/9/2025 Sample Collection Time: 9:37

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: ALS Environmental

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

Lab Accreditation Number(s): 22-293

Lab Sample Number(s): 3414804002 Final Lab Analysis Completion Date: 5/22/2025

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

Comments: _____

I.D. No 101389

Monitoring Point No. FFMP002W

Sample Date 5/9/2025

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	SM20-4500D
BICARBONATE ALKALINITY	5 ND	SM20-2320B
CALCIUM, TOTAL	16	SW846 6010B
CALCIUM, DISSOLVED	15.9	SW846 6010B
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	17.5	EPA 300
FLUORIDE	0.26	EPA 300
IRON, TOTAL (ug/l)	87	SW846 6010B
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010B
MAGNESIUM, TOTAL	7.1	SW846 6010B
MAGNESIUM, DISSOLVED	7	SW846 6010B
MANGANESE, TOTAL (ug/l)	260	SW846 6010B
MANGANESE, DISSOLVED (ug/l)	250	SW846 6010B
NITRATE-NITROGEN	11.9	EPA 300
pH-FIELD (SU)	4.63	FIELD
pH-LAB (SU)	6.33	SM20-4500B
POTASSIUM, TOTAL	2.5	SW846 6010B
POTASSIUM, DISSOLVED	2.5	SW846 6010B
SODIUM, TOTAL	14.7	SW846 6010B
SODIUM, DISSOLVED	14.2	SW846 6010B
SPEC. COND., FIELD (umhos/cm)	252	FIELD
SPEC. COND., LAB (umhos/cm)	247	EPA 120.1
SULFATE	33.4	EPA 300
ALKALINITY	5 ND	SM20-2320B
TDS (TOT. DISSOLVED SOLIDS)	195	SM20-2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20-5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.2	SM20- 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 5/9/2025

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.

I.D. No 101389

Monitoring Point No. FFMP002W

Sample Date 5/9/2025

FORM 19**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

1-A. Metals (Enter all data in ug/l) If initial background analyses of four consecutive analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE^T	ANALYSIS METHOD NUMBER
ARSENIC, TOTAL	3.3 ND	SW846 6010B
ARSENIC, DISSOLVED	3.3 ND	SW846 6010B
BARIUM, TOTAL	49	SW846 6010B
BARIUM, DISSOLVED	49	SW846 6010B
CADMIUM, TOTAL	1.1 ND	SW846 6010B
CADMIUM, DISSOLVED	1.1 ND	SW846 6010B
CHROMIUM, TOTAL	2.2 ND	SW846 6010B
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010B
COPPER, TOTAL	41	SW846 6010B
COPPER, DISSOLVED	36	SW846 6010B
LEAD-FLAMELESS, TOTAL	13	SW846 6010B
LEAD, DISSOLVED	12	SW846 6010B
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010B
SELENIUM, DISSOLVED	5.6 ND	SW846 6010B
SILVER, TOTAL	2.2 ND	SW846 6010B
SILVER, DISSOLVED	2.2 ND	SW846 6010B
ZINC, TOTAL	78	SW846 6010B
ZINC, DISSOLVED	76	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP002W

Sample Date 5/9/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BROMOFORM	1 ND	SW846 8260B
BROMOMETHANE	1 ND	SW846 8260B
CARBON TETRACHLORIDE	1 ND	SW846 8260B
CHLOROBENZENE	1 ND	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1 ND	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	1 ND	SW846 8260B
DICHLORODIFLUOROMETHANE	1 ND	SW846 8260B
1,2-DICHLOROPROPANE	1 ND	SW846 8260B
CIS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
TRANS 1,3-DICHLOROPROPENE	1 ND	SW846 8260B
2-BUTANONE (MEK)	10 ND	SW846 8260B
4-METHYL-2-PENTANONE	5 ND	SW846 8260B
1,1,1,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2,2-TETRACHLOROETHANE	1 ND	SW846 8260B
1,1,2-TRICHLOROETHANE	1 ND	SW846 8260B
TRICHLOROFLUOROMETHANE	1 ND	SW846 8260B
1,2,3-TRICHLOROPROPANE	2 ND	SW846 8260B

T Please indicate detection limit if analyte is not detected.

I.D. No 101389

Monitoring Point No. FFMP002W

Sample Date 5/9/2025

FORM 19

ANNUAL WATER QUALITY ANALYSES

SUBTITLE D - Detection Zone Add-On List - When the MCL of any VOC is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the groundwater monitoring wells.

ORGANICS AND METALS (Enter all data in ug/l)

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
ACETONE	10 ND	SW846 8260B
ACRYLONITRILE	5 ND	SW846 8260B
BROMOCHLOROMETHANE (CHLOROBROMOMETHAN	1 ND	SW846 8260B
BROMODICHLOROMETHANE	1 ND	SW846 8260B
CARBON DISULFIDE	1 ND	SW846 8260B
CHLOROFORM	1 ND	SW846 8260B
1,2-DIBROMO-3-CHLOROPROPANE	7 ND	SW846 8260B
TRANS 1,4-DICHLORO-2-BUTENE	3 ND	SW846 8260B
2-HEXANONE	5 ND	SW846 8260B
DIBROMOMETHANE	1 ND	SW846 8260B
IODOMETHANE	1 ND	SW846 8260B
STYRENE	1 ND	SW846 8260B
VINYL ACETATE	5 ND	SW846 8260B
ANTIMONY	2.2 ND	SW846 6010B
BERYLLIUM	1.1 ND	SW846 6010B
COBALT	41	SW846 6010B
NICKEL	99	SW846 6010B
THALLIUM	1.1 ND	SW846 6010B
VANADIUM	2.2 ND	SW846 6010B

^T Please indicate detection limit if analyte is not detected.

Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]



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 2ND QTR 2025 FFMP-FORM 19A
Workorder 3414804
Report ID 420778 on 5/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 09, 2025.

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

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

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

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

Recipient(s):

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

Susan Scherer

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

Susan Scherer
Project Coordinator

(ALS Digital Signature)



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3414804001	FFMP031W	Ground Water	05/09/2025 09:17	05/09/2025 14:30	EMP	ALS Environmental-Middletown
3414804002	FFMP002W	Ground Water	05/09/2025 09:37	05/09/2025 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 QC sample type MS for method SW846 8260B was outside the control limits for the analyte Benzene. The % Recovery was reported as 125 and the control limits were 80 to 124.
2	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Bromochloromethane. The % Recovery was reported as 119 and the control limits were 73 to 117.
3	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 145 and the control limits were 51 to 142.
4	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 3-Chloro-1-propene. The % Recovery was reported as 142 and the control limits were 59 to 135.
5	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,1-Dichloroethane. The % Recovery was reported as 134 and the control limits were 78 to 124.
6	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 141 and the control limits were 63 to 128.
7	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte cis-1,2-Dichloroethene. The % Recovery was reported as 127 and the control limits were 78 to 125.
8	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 133 and the control limits were 71 to 122.
9	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 125 and the control limits were 38 to 123.
10	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Vinyl Chloride. The % Recovery was reported as 143 and the control limits were 27 to 138.
11	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
12	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.
13	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
14	The QC sample type MSD for method SW846 6020A was outside the control limits for the analyte Iron, Dissolved. The % Recovery was reported as 138 and the control limits were 75 to 125.
15	The QC sample type MSD for method SW846 6020A was outside the control limits for the analyte Iron, Dissolved. The RPD was reported as 32.4 and the upper control limit is 20.



Detected Results Summary

Client Sample ID	FFMP031W	Collected	05/09/2025 09:17
Lab Sample ID	3414804001	Lab Receipt	05/09/2025 14:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	70.11	Feet		Field	#
Dissolved Oxygen	1.27	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	612.66	Feet		Field	#
Flow Rate	2.00	gal/min		Field	#
Ground Water Elevation	542.55	ft/MSL		Field	#
Oxidation-Reduction Potential	82	mV		Field	#
pH, Field (SM4500B)	7.49	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	344	umhos/cm	1	Field	#
Temperature	14.65	Deg. C		Field	#
Total Well Depth	142.70	Feet		Field	#
Turbidity, Field	17	NTU	1	Field	#
Volume in Water Column	106.71	Gallons		Field	#
Water Level After Purge	129.70	Feet		Field	#
Well Volumes Purged	1.41	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.062	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.066	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	48.4	mg/L	0.11	SW846 6020A	#
Calcium, Total	49.9	mg/L	0.11	SW846 6020A	#
Iron, Total	4.0	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	4.2	mg/L	0.11	SW846 6020A	#
Magnesium, Total	4.0	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.31	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.28	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.5	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.5	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	8.6	mg/L	0.11	SW846 6020A	#
Sodium, Total	8.4	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	91	mg/L	5	SM2320B-2011	#
Alkalinity, Total	91	mg/L	5	SM2320B-2011	#
Chloride	21.7	mg/L	2.0	EPA 300.0	#
Fluoride	0.27	mg/L	0.20	EPA 300.0	#
pH	8.22	pH_Units		S4500HB-11	#
Specific Conductance	348	umhos/cm	5	SM2510B-2011	#
Sulfate	46.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	238	mg/L	25	SM2540C-15	#
Turbidity	36	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP002W	Collected	05/09/2025 09:37
Lab Sample ID	3414804002	Lab Receipt	05/09/2025 14:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	68.31	Feet		Field	#
Dissolved Oxygen	4.67	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	613.20	Feet		Field	#
Flow Rate	0.81	gal/min		Field	#
Ground Water Elevation	544.89	ft/MSL		Field	#
Oxidation-Reduction Potential	285	mV		Field	#
pH, Field (SM4500B)	4.63	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	252	umhos/cm	1	Field	#
Temperature	14.73	Deg. C		Field	#
Total Well Depth	90.02	Feet		Field	#
Volume in Water Column	31.91	Gallons		Field	#
Water Level After Purge	85.61	Feet		Field	#
Well Volumes Purged	1.22	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.049	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.049	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	15.9	mg/L	0.11	SW846 6020A	#
Calcium, Total	16.0	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.041	mg/L	0.0056	SW846 6020A	#
Copper, Dissolved	0.036	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.041	mg/L	0.0056	SW846 6020A	#
Iron, Total	0.087	mg/L	0.056	SW846 6020A	#
Lead, Dissolved	0.012	mg/L	0.0022	SW846 6020A	#
Lead, Total	0.013	mg/L	0.0022	SW846 6020A	#
Magnesium, Dissolved	7.0	mg/L	0.11	SW846 6020A	#
Magnesium, Total	7.1	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.25	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.26	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.099	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.5	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.5	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	14.2	mg/L	0.11	SW846 6020A	#
Sodium, Total	14.7	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.076	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.078	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Chloride	17.5	mg/L	2.0	EPA 300.0	#
Fluoride	0.26	mg/L	0.20	EPA 300.0	#
Nitrate-N	11.9	mg/L	1.0	EPA 300.0	#
pH	6.33	pH_Units		S4500HB-11	#
Specific Conductance	247	umhos/cm	5	SM2510B-2011	#
Sulfate	33.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	195	mg/L	25	SM2540C-15	#
Turbidity	1.2	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - FFMP002W (cont.)					
<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>



Results

Client Sample ID	FFMP031W	Collected	05/09/2025 09:17
Lab Sample ID	3414804001	Lab Receipt	05/09/2025 14:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	70.11		Feet		Field	1	05/09/2025 09:17	EMP	H
Dissolved Oxygen	1.27		mg/L	0.01	Field	1	05/09/2025 09:17	EMP	H
Elev Top MW Casing above MSL	612.66		Feet		Field	1	05/09/2025 09:17	EMP	H
Flow Rate	2.00		gal/min		Field	1	05/09/2025 09:17	EMP	H
Ground Water Elevation	542.55		ft/MSL		Field	1	05/09/2025 09:17	EMP	H
Oxidation-Reduction Potential	82		mV		Field	1	05/09/2025 09:17	EMP	H
pH, Field (SM4500B)	7.49		pH_Units		Field	1	05/09/2025 09:17	EMP	H
Sample Depth	130.00		Feet		Field	1	05/09/2025 09:17	EMP	H
Specific Conductance, Field	344		umhos/cm	1	Field	1	05/09/2025 09:17	EMP	H
Temperature	14.65		Deg. C		Field	1	05/09/2025 09:17	EMP	H
Total Well Depth	142.70		Feet		Field	1	05/09/2025 09:17	EMP	H
Turbidity, Field	17		NTU	1	Field	1	05/09/2025 09:17	EMP	H
Volume in Water Column	106.71		Gallons		Field	1	05/09/2025 09:17	EMP	H
Water Level After Purge	129.70		Feet		Field	1	05/09/2025 09:17	EMP	H
Well Volumes Purged	1.41		Vol		Field	1	05/09/2025 09:17	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/19/2025 15:41	IXK	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Barium, Dissolved	0.062		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Barium, Total	0.066		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Calcium, Dissolved	48.4	13	mg/L	0.11	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Calcium, Total	49.9	13	mg/L	0.11	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Iron, Dissolved	ND	ND,14,15	mg/L	0.056	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Iron, Total	4.0		mg/L	0.056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Magnesium, Dissolved	4.2		mg/L	0.11	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Magnesium, Total	4.0		mg/L	0.11	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Manganese, Dissolved	0.31		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:25	KXH	D1



Results

Client Sample ID	FFMP031W	Collected	05/09/2025 09:17
Lab Sample ID	3414804001	Lab Receipt	05/09/2025 14:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.28		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/15/2025 10:49	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/15/2025 10:16	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Potassium, Dissolved	1.5		mg/L	0.11	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Potassium, Total	1.5		mg/L	0.11	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Sodium, Dissolved	8.6		mg/L	0.11	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Sodium, Total	8.4		mg/L	0.11	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:27	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/22/2025 10:25	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:27	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,1-Dichloroethane	ND	ND,5	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,1-Dichloroethene	ND	ND,6	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
3-Chloro-1-propene	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Benzene	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Bromochloromethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L



Results

Client Sample ID	FFMP031W	Collected	05/09/2025 09:17
Lab Sample ID	3414804001	Lab Receipt	05/09/2025 14:30

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Chloroethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
cis-1,2-Dichloroethene	ND	ND,7	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
trans-1,2-Dichloroethene	ND	ND,8	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Trichlorofluoromethane	ND	ND,9	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 15:41	IXK	L
Vinyl Chloride	ND	ND,10	ug/L	1.0	SW846 8260B	1	05/19/2025 15:41	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	05/19/2025 15:41	
4-Bromofluorobenzene	460-00-4	95%	79 – 114	05/19/2025 15:41	
Dibromofluoromethane	1868-53-7	100%	78 – 116	05/19/2025 15:41	
Toluene-d8	2037-26-5	93.4%	76 – 127	05/19/2025 15:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	91		mg/L	5	SM2320B-2011	1	05/19/2025 11:54	JXK	A
Alkalinity, Total	91	11	mg/L	5	SM2320B-2011	1	05/19/2025 11:54	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/12/2025 20:51	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/12/2025 14:24	KMS	C
Chloride	21.7		mg/L	2.0	EPA 300.0	2	05/10/2025 11:47	J1W	A
Fluoride	0.27		mg/L	0.20	EPA 300.0	2	05/10/2025 11:47	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/10/2025 11:47	J1W	A
pH	8.22	12	pH_Units		S4500HB-11	1	05/19/2025 11:54	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 15:13	AKH	K
Specific Conductance	348		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	46.3		mg/L	2.0	EPA 300.0	2	05/10/2025 11:47	J1W	A



Results

Client Sample ID	FFMP031W	Collected	05/09/2025 09:17
Lab Sample ID	3414804001	Lab Receipt	05/09/2025 14:30

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	238		mg/L	25	SM2540C-15	1	05/12/2025 12:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2025 05:10	PAG	I
Turbidity	36		NTU	0.30	SM2130B-2011	1	05/10/2025 10:53	NPF	A



Results

Client Sample ID	FFMP002W	Collected	05/09/2025 09:37
Lab Sample ID	3414804002	Lab Receipt	05/09/2025 14:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	68.31		Feet		Field	1	05/09/2025 09:37	EMP	H
Dissolved Oxygen	4.67		mg/L	0.01	Field	1	05/09/2025 09:37	EMP	H
Elev Top MW Casing above MSL	613.20		Feet		Field	1	05/09/2025 09:37	EMP	H
Flow Rate	0.81		gal/min		Field	1	05/09/2025 09:37	EMP	H
Ground Water Elevation	544.89		ft/MSL		Field	1	05/09/2025 09:37	EMP	H
Oxidation-Reduction Potential	285		mV		Field	1	05/09/2025 09:37	EMP	H
pH, Field (SM4500B)	4.63		pH_Units		Field	1	05/09/2025 09:37	EMP	H
Sample Depth	85.00		Feet		Field	1	05/09/2025 09:37	EMP	H
Specific Conductance, Field	252		umhos/cm	1	Field	1	05/09/2025 09:37	EMP	H
Temperature	14.73		Deg. C		Field	1	05/09/2025 09:37	EMP	H
Total Well Depth	90.02		Feet		Field	1	05/09/2025 09:37	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/09/2025 09:37	EMP	H
Volume in Water Column	31.91		Gallons		Field	1	05/09/2025 09:37	EMP	H
Water Level After Purge	85.61		Feet		Field	1	05/09/2025 09:37	EMP	H
Well Volumes Purged	1.22		Vol		Field	1	05/09/2025 09:37	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/19/2025 16:26	IXK	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Barium, Dissolved	0.049		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Barium, Total	0.049		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Calcium, Dissolved	15.9		mg/L	0.11	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Calcium, Total	16.0		mg/L	0.11	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Cobalt, Total	0.041		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Copper, Dissolved	0.036		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Copper, Total	0.041		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Iron, Total	0.087		mg/L	0.056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Lead, Dissolved	0.012		mg/L	0.0022	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Lead, Total	0.013		mg/L	0.0022	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Magnesium, Dissolved	7.0		mg/L	0.11	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Magnesium, Total	7.1		mg/L	0.11	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Manganese, Dissolved	0.25		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:31	KXH	D1



Results

Client Sample ID	FFMP002W	Collected	05/09/2025 09:37
Lab Sample ID	3414804002	Lab Receipt	05/09/2025 14:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.26		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/15/2025 10:53	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/15/2025 10:23	AJN	F
Nickel, Total	0.099		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Potassium, Dissolved	2.5		mg/L	0.11	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Potassium, Total	2.5		mg/L	0.11	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Sodium, Dissolved	14.2		mg/L	0.11	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Sodium, Total	14.7		mg/L	0.11	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/20/2025 13:25	KXH	F1
Zinc, Dissolved	0.076		mg/L	0.0056	SW846 6020A	1	05/22/2025 10:31	KXH	D1
Zinc, Total	0.078		mg/L	0.0056	SW846 6020A	1	05/20/2025 13:25	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L



Results

Client Sample ID	FFMP002W	Collected	05/09/2025 09:37
Lab Sample ID	3414804002	Lab Receipt	05/09/2025 14:30

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/19/2025 16:26	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/19/2025 16:26	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	05/19/2025 16:26	
4-Bromofluorobenzene	460-00-4	98.1%	79 – 114	05/19/2025 16:26	
Dibromofluoromethane	1868-53-7	103%	78 – 116	05/19/2025 16:26	
Toluene-d8	2037-26-5	95%	76 – 127	05/19/2025 16:26	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	05/19/2025 12:05	JXK	A
Alkalinity, Total	ND	ND,11	mg/L	5	SM2320B-2011	1	05/19/2025 12:05	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/12/2025 20:48	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/12/2025 14:24	KMS	C
Chloride	17.5		mg/L	2.0	EPA 300.0	2	05/10/2025 12:00	J1W	A
Fluoride	0.26		mg/L	0.20	EPA 300.0	2	05/10/2025 12:00	J1W	A
Nitrate-N	11.9		mg/L	1.0	EPA 300.0	2	05/10/2025 12:00	J1W	A
pH	6.33	12	pH_Units		S4500HB-11	1	05/19/2025 12:05	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 15:09	AKH	K
Specific Conductance	247		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	33.4		mg/L	2.0	EPA 300.0	2	05/10/2025 12:00	J1W	A



Results

Client Sample ID	FFMP002W	Collected	05/09/2025 09:37
Lab Sample ID	3414804002	Lab Receipt	05/09/2025 14:30

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	195		mg/L	25	SM2540C-15	1	05/12/2025 12:50	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/13/2025 05:10	PAG	I
Turbidity	1.2		NTU	0.30	SM2130B-2011	1	05/10/2025 10:53	NPF	A



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3414804001	FFMP031W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3414804002	FFMP002W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	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
3414804001	FFMP031W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1439032	05/21/2025 14:48	J1K	SW846 6020A	1439259
		SW846 3015A	1435855	05/19/2025 11:06	J1K	SW846 6020A	1437491
		SW846 7470A	1434946	05/15/2025 06:24	AJN	SW846 7470A	1435161
		SW846 7470A	1434944	05/15/2025 06:24	AJN	SW846 7470A	1435160
		N/A	N/A	N/A		Lib Search VOC	1437898
		N/A	N/A	N/A		SW846 8260B	1437595
		N/A	N/A	N/A		EPA 300.0	1431333
		N/A	N/A	N/A		EPA 410.4	1432628
		N/A	N/A	N/A		S4500HB-11	1435818
		N/A	N/A	N/A		SM 4500-NH3G	1432571
		N/A	N/A	N/A		SM2130B-2011	1431429
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1432559
		N/A	N/A	N/A		SM5310B-14	1432850
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3414804002	FFMP002W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1439032	05/21/2025 14:48	J1K	SW846 6020A	1439259
		SW846 3015A	1435855	05/19/2025 11:06	J1K	SW846 6020A	1437491
		SW846 7470A	1434946	05/15/2025 06:24	AJN	SW846 7470A	1435161
		SW846 7470A	1434944	05/15/2025 06:24	AJN	SW846 7470A	1435160
		N/A	N/A	N/A		Lib Search VOC	1437898
		N/A	N/A	N/A		SW846 8260B	1437595
		N/A	N/A	N/A		EPA 300.0	1431333
		N/A	N/A	N/A		EPA 410.4	1432628
		N/A	N/A	N/A		S4500HB-11	1435818
		N/A	N/A	N/A		SM 4500-NH3G	1432571
		N/A	N/A	N/A		SM2130B-2011	1431429
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1432559
		N/A	N/A	N/A		SM5310B-14	1432850
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993

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.

3414804

Logged By: SLS
PH: SJB



of

Client Name: Lancaster County Solid Waste MA		Container Type	AG	AN	CG	P	P	P	P
Address: 1299 Harrisburg Pike Lancaster PA 17604		Container Size	40ml	125ml	40ml	1L	500ml	250ml	125ml
		Preservative	HCL	H2SO4	HCL	UNP	UNP	H2SO4	HNO3
Contact: Dan Brown		ANALYSIS / METHOD REQUESTED							
Phone#: 717-553-5864									
Project Name/ID: Frey Farm Annual									
Bill To: Lancaster County Solid Waste MA									
Purchase Order #:									
TAT ☒ Normal-Standard TAT is 10-12 business days.									
Date Required: ☐ Rush-Subject to ALS approval and surcharges.									
Email? ☒ dbrown@lcswna.org									
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm						
1	FEUP031W	5-9-25	0917						
2	FEUP031W	5-9-25	0917						
3									
4									
5									
6									
7									
8									
9									
10									
Circle Sample Collector: ALS Tech / Client Name: Evan P				Received By / Company Name: <i>[Signature]</i>					
Date: 5-9-25 1420				Date: 5-9-25 1420					
1				2					
3				4					
5				6					
7				8					
9				10					
Comments:									
SDWA Sample Type (see key)				Enter Number of Containers Per Sample or Field Results Below.					
*G or C				O-H					
VOC (form 19A) + S + Subtitle D				pH, CL, SpC, F, SO4, NO3, TP, TDS					
Alkalinity, HCO3				Sample Depth for AUX Data					
TM				NH3-N, COD					
Dis Metals Fe, Mn, Na, Ba, Cr, Cu, Pb, Mg, K, Zn, As, Cd, Se, Ag, Hg, Ca				Total Metals Form 19A + Subtitle D					
SDWA State of Origin?				PWSID #					
Reportable SDWA Sample(s)?				Sample(s) for Radiation testing?					
New Source Contact:				Rad Screen (uCi)					
New Source?				Y N					
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					
Standard Lvl 1				CLP-like					
Standard Lvl 2				DOD					
Standard Lvl 3				NJ RED					
Standard Lvl 4				NJ Full					
Excel Summary				Sample Disposal					
Equis				Lab					
Custom				Special					
EDDS:				Format Type					
Data Deliverables				State Samples Collected In					
				NY					
				NJ					
				PA					
				WV					
				FL					
				other					



Apix Solutions
1001, 7-0000

Middletown Sample Condition Form

Client Lancaster County

Workorder 3414804

Temp °C 1

Therm ID 649

Ice?

Y

N

N/A

Initials & Date 5/9/25 DG

Fedex

UPS

Client

ALS

Other

Tracking #

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

¹ If No, provide comment

Rad Screen (uCi)

PM - PM to contact client

N/A - Not Applicable

UC - Updated coc with missing information

Review Comments:

5/27/2025 9:58 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 2ND QTR 2025 FFMP-FORM 19A
Workorder 3414236
Report ID 419578 on 5/22/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 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

Susan Scherer

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

Susan Scherer
Project Coordinator

(ALS Digital Signature)



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3414236001	FFMP017W	Ground Water	05/07/2025 10:28	05/07/2025 17:00	EMP	ALS Environmental-Middletown
3414236002	FFMP02DW	Ground Water	05/07/2025 11:40	05/07/2025 17:00	EMP	ALS Environmental-Middletown
3414236003	FFMP038W	Ground Water	05/07/2025 13:43	05/07/2025 17:00	EMP	ALS Environmental-Middletown
3414236004	FFMP039W	Ground Water	05/07/2025 14:10	05/07/2025 17:00	EMP	ALS Environmental-Middletown
3414236005	TRIP BLANK	Water	05/07/2025 00:00	05/07/2025 17:00	EMP	ALS Environmental-Middletown



Reference

Notes

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

Standard Acronyms/Flags

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



Project Notations

Sample Notations

Lab ID	Sample ID
--------	-----------

Result Notations

Notation Ref.	
1	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Bromoform.
2	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Chloroethane.
3	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Dichlorodifluoromethane.
4	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Iodomethane.
5	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
6	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.
7	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Selenium. The % RSD was reported as 26.1 and the control limits were 0 to 20.



Detected Results Summary

Client Sample ID	FFMP017W	Collected	05/07/2025 10:28
Lab Sample ID	3414236001	Lab Receipt	05/07/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	44.29	Feet		Field	#
Dissolved Oxygen	1.01	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	480.70	Feet		Field	#
Flow Rate	1.94	gal/min		Field	#
Ground Water Elevation	436.41	ft/MSL		Field	#
Oxidation-Reduction Potential	207	mV		Field	#
pH, Field (SM4500B)	5.99	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	1947	umhos/cm	1	Field	#
Temperature	12.71	Deg. C		Field	#
Total Well Depth	150.50	Feet		Field	#
Volume in Water Column	156.13	Gallons		Field	#
Water Level After Purge	50.93	Feet		Field	#
Well Volumes Purged	1.12	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.11	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.11	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	134	mg/L	0.11	SW846 6020A	#
Calcium, Total	136	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.0097	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	46.8	mg/L	0.11	SW846 6020A	#
Magnesium, Total	46.3	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	1.2	mg/L	0.0056	SW846 6020A	#
Manganese, Total	1.2	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0080	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	14.8	mg/L	0.11	SW846 6020A	#
Potassium, Total	14.6	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	173	mg/L	11.0	SW846 6020A	#
Sodium, Total	154	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.012	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0095	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	98	mg/L	5	SM2320B-2011	#
Alkalinity, Total	98	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.17	mg/L	0.10	SM 4500-NH3G	#
Chloride	515	mg/L	10.0	EPA 300.0	#
Nitrate-N	3.5	mg/L	2.5	EPA 300.0	#
pH	7.90	pH_Units		S4500HB-11	#
Specific Conductance	2030	umhos/cm	5	SM2510B-2011	#
Sulfate	130	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1190	mg/L	25	SM2540C-15	#
Turbidity	2.0	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP02DW	Collected	05/07/2025 11:40
Lab Sample ID	3414236002	Lab Receipt	05/07/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	29.87	Feet		Field	#
Dissolved Oxygen	0.05	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	509.60	Feet		Field	#
Flow Rate	1.88	gal/min		Field	#
Ground Water Elevation	479.73	ft/MSL		Field	#
Oxidation-Reduction Potential	21	mV		Field	#
pH, Field (SM4500B)	7.30	pH_Units		Field	#
Sample Depth	120.00	Feet		Field	#
Specific Conductance, Field	1508	umhos/cm	1	Field	#
Temperature	20.25	Deg. C		Field	#
Total Well Depth	153.00	Feet		Field	#
Turbidity, Field	5	NTU	1	Field	#
Volume in Water Column	181.00	Gallons		Field	#
Water Level After Purge	77.45	Feet		Field	#
Well Volumes Purged	1.04	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.17	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.17	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	114	mg/L	0.11	SW846 6020A	#
Calcium, Total	110	mg/L	0.11	SW846 6020A	#
Iron, Total	0.49	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	19.1	mg/L	0.11	SW846 6020A	#
Magnesium, Total	18.9	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.033	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.030	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0093	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.5	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.4	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	142	mg/L	11.0	SW846 6020A	#
Sodium, Total	126	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	126	mg/L	5	SM2320B-2011	#
Alkalinity, Total	126	mg/L	5	SM2320B-2011	#
Chloride	354	mg/L	5.0	EPA 300.0	#
Nitrate-N	7.2	mg/L	2.5	EPA 300.0	#
pH	8.14	pH_Units		S4500HB-11	#
Specific Conductance	1460	umhos/cm	5	SM2510B-2011	#
Sulfate	43.6	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	900	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.93	mg/L	0.50	SM5310B-14	#
Turbidity	7.2	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP038W	Collected	05/07/2025 13:43
Lab Sample ID	3414236003	Lab Receipt	05/07/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	22.48	Feet		Field	#
Dissolved Oxygen	0.03	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	454.05	Feet		Field	#
Flow Rate	0.35	gal/min		Field	#
Ground Water Elevation	431.57	ft/MSL		Field	#
Oxidation-Reduction Potential	-192	mV		Field	#
pH, Field (SM4500B)	8.14	pH_Units		Field	#
Sample Depth	46.00	Feet		Field	#
Specific Conductance, Field	464	umhos/cm	1	Field	#
Temperature	10.41	Deg. C		Field	#
Total Well Depth	52.00	Feet		Field	#
Turbidity, Field	2	NTU	1	Field	#
Volume in Water Column	43.39	Gallons		Field	#
Water Level After Purge	32.41	Feet		Field	#
Well Volumes Purged	1.13	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.098	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.10	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	61.9	mg/L	0.11	SW846 6020A	#
Calcium, Total	62.4	mg/L	0.11	SW846 6020A	#
Iron, Dissolved	1.0	mg/L	0.056	SW846 6020A	#
Iron, Total	0.78	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	5.8	mg/L	0.11	SW846 6020A	#
Magnesium, Total	5.7	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.067	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.053	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	0.94	mg/L	0.11	SW846 6020A	#
Potassium, Total	0.90	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	13.3	mg/L	0.11	SW846 6020A	#
Sodium, Total	11.4	mg/L	0.11	SW846 6020A	#
VOLATILE ORGANICS					
Toluene	1.1	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	79	mg/L	5	SM2320B-2011	#
Alkalinity, Total	79	mg/L	5	SM2320B-2011	#
Chloride	97.0	mg/L	2.0	EPA 300.0	#
pH	8.18	pH_Units		S4500HB-11	#
Specific Conductance	490	umhos/cm	5	SM2510B-2011	#
Sulfate	14.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	334	mg/L	25	SM2540C-15	#
Turbidity	7.9	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP039W	Collected	05/07/2025 14:10
Lab Sample ID	3414236004	Lab Receipt	05/07/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	16.44	Feet		Field	#
Elev Top MW Casing above MSL	455.65	Feet		Field	#
Flow Rate	1.88	gal/min		Field	#
Ground Water Elevation	439.21	ft/MSL		Field	#
Oxidation-Reduction Potential	112	mV		Field	#
pH, Field (SM4500B)	5.82	pH_Units		Field	#
Sample Depth	118.00	Feet		Field	#
Specific Conductance, Field	921	umhos/cm	1	Field	#
Temperature	14.12	Deg. C		Field	#
Total Well Depth	131.50	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	169.14	Gallons		Field	#
Water Level After Purge	22.07	Feet		Field	#
Well Volumes Purged	1.06	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.094	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.097	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	73.8	mg/L	0.11	SW846 6020A	#
Calcium, Total	70.1	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.0059	mg/L	0.0056	SW846 6020A	#
Iron, Dissolved	1.4	mg/L	0.056	SW846 6020A	#
Iron, Total	16.7	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	26.9	mg/L	0.11	SW846 6020A	#
Magnesium, Total	26.7	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.84	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.85	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0075	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	6.7	mg/L	0.11	SW846 6020A	#
Potassium, Total	6.5	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	79.6	mg/L	1.1	SW846 6020A	#
Sodium, Total	74.6	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0064	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0072	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	47	mg/L	5	SM2320B-2011	#
Alkalinity, Total	47	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.32	mg/L	0.10	SM 4500-NH3G	#
Chloride	285	mg/L	5.0	EPA 300.0	#
Nitrate-N	2.6	mg/L	2.5	EPA 300.0	#
pH	7.63	pH_Units		S4500HB-11	#
Specific Conductance	1100	umhos/cm	5	SM2510B-2011	#
Sulfate	43.2	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	680	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.2	mg/L	0.50	SM5310B-14	#
Turbidity	170	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - FFMP039W (cont.)					
<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>



Detected Results Summary

Client Sample ID	TRIP BLANK	Collected	05/07/2025 00:00
Lab Sample ID	3414236005	Lab Receipt	05/07/2025 17:00

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#



Results

Client Sample ID	FFMP017W	Collected	05/07/2025 10:28
Lab Sample ID	3414236001	Lab Receipt	05/07/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	44.29		Feet		Field	1	05/07/2025 10:28	EMP	H
Dissolved Oxygen	1.01		mg/L	0.01	Field	1	05/07/2025 10:28	EMP	H
Elev Top MW Casing above MSL	480.70		Feet		Field	1	05/07/2025 10:28	EMP	H
Flow Rate	1.94		gal/min		Field	1	05/07/2025 10:28	EMP	H
Ground Water Elevation	436.41		ft/MSL		Field	1	05/07/2025 10:28	EMP	H
Oxidation-Reduction Potential	207		mV		Field	1	05/07/2025 10:28	EMP	H
pH, Field (SM4500B)	5.99		pH_Units		Field	1	05/07/2025 10:28	EMP	H
Sample Depth	135.00		Feet		Field	1	05/07/2025 10:28	EMP	H
Specific Conductance, Field	1947		umhos/cm	1	Field	1	05/07/2025 10:28	EMP	H
Temperature	12.71		Deg. C		Field	1	05/07/2025 10:28	EMP	H
Total Well Depth	150.50		Feet		Field	1	05/07/2025 10:28	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/07/2025 10:28	EMP	H
Volume in Water Column	156.13		Gallons		Field	1	05/07/2025 10:28	EMP	H
Water Level After Purge	50.93		Feet		Field	1	05/07/2025 10:28	EMP	H
Well Volumes Purged	1.12		Vol		Field	1	05/07/2025 10:28	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 17:12	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Barium, Dissolved	0.11		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Barium, Total	0.11		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Calcium, Dissolved	134		mg/L	0.11	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Calcium, Total	136		mg/L	0.11	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Cobalt, Total	0.0097		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Magnesium, Dissolved	46.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Magnesium, Total	46.3		mg/L	0.11	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Manganese, Dissolved	1.2		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:10	KXH	D1



Results

Client Sample ID	FFMP017W	Collected	05/07/2025 10:28
Lab Sample ID	3414236001	Lab Receipt	05/07/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	1.2		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:57	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:37	AJN	F
Nickel, Total	0.0080		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Potassium, Dissolved	14.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Potassium, Total	14.6		mg/L	0.11	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Selenium, Dissolved	ND	ND,7	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Sodium, Dissolved	173		mg/L	11.0	SW846 6020A	100	05/16/2025 11:21	KXH	D1
Sodium, Total	154		mg/L	0.11	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:20	KXH	F1
Zinc, Dissolved	0.012		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:10	KXH	D1
Zinc, Total	0.0095		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:20	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L



Results

Client Sample ID	FFMP017W	Collected	05/07/2025 10:28
Lab Sample ID	3414236001	Lab Receipt	05/07/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:12	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:12	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.6%	62 – 133	05/15/2025 17:12	
4-Bromofluorobenzene	460-00-4	91.1%	79 – 114	05/15/2025 17:12	
Dibromofluoromethane	1868-53-7	88%	78 – 116	05/15/2025 17:12	
Toluene-d8	2037-26-5	93.3%	76 – 127	05/15/2025 17:12	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	98		mg/L	5	SM2320B-2011	1	05/18/2025 05:53	JXK	A
Alkalinity, Total	98	5	mg/L	5	SM2320B-2011	1	05/18/2025 05:53	JXK	A
Ammonia-N, Low Level	0.17		mg/L	0.10	SM 4500-NH3G	1	05/12/2025 20:24	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/09/2025 11:05	KMS	C
Chloride	515		mg/L	10.0	EPA 300.0	10	05/10/2025 21:38	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	05/08/2025 14:20	J1W	A
Nitrate-N	3.5		mg/L	2.5	EPA 300.0	5	05/08/2025 14:20	J1W	A
pH	7.90	6	pH_Units		S4500HB-11	1	05/18/2025 05:53	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 17:33	AKH	K
Specific Conductance	2030		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	130		mg/L	5.0	EPA 300.0	5	05/08/2025 14:20	J1W	A



Results

Client Sample ID	FFMP017W	Collected	05/07/2025 10:28
Lab Sample ID	3414236001	Lab Receipt	05/07/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	1190		mg/L	25	SM2540C-15	1	05/08/2025 15:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	2.0		NTU	0.30	SM2130B-2011	1	05/08/2025 09:44	NPF	A



Results

Client Sample ID	FFMP02DW	Collected	05/07/2025 11:40
Lab Sample ID	3414236002	Lab Receipt	05/07/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	29.87		Feet		Field	1	05/07/2025 11:40	EMP	H
Dissolved Oxygen	0.05		mg/L	0.01	Field	1	05/07/2025 11:40	EMP	H
Elev Top MW Casing above MSL	509.60		Feet		Field	1	05/07/2025 11:40	EMP	H
Flow Rate	1.88		gal/min		Field	1	05/07/2025 11:40	EMP	H
Ground Water Elevation	479.73		ft/MSL		Field	1	05/07/2025 11:40	EMP	H
Oxidation-Reduction Potential	21		mV		Field	1	05/07/2025 11:40	EMP	H
pH, Field (SM4500B)	7.30		pH_Units		Field	1	05/07/2025 11:40	EMP	H
Sample Depth	120.00		Feet		Field	1	05/07/2025 11:40	EMP	H
Specific Conductance, Field	1508		umhos/cm	1	Field	1	05/07/2025 11:40	EMP	H
Temperature	20.25		Deg. C		Field	1	05/07/2025 11:40	EMP	H
Total Well Depth	153.00		Feet		Field	1	05/07/2025 11:40	EMP	H
Turbidity, Field	5		NTU	1	Field	1	05/07/2025 11:40	EMP	H
Volume in Water Column	181.00		Gallons		Field	1	05/07/2025 11:40	EMP	H
Water Level After Purge	77.45		Feet		Field	1	05/07/2025 11:40	EMP	H
Well Volumes Purged	1.04		Vol		Field	1	05/07/2025 11:40	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 17:32	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Barium, Dissolved	0.17		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Barium, Total	0.17		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Calcium, Dissolved	114		mg/L	0.11	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Calcium, Total	110		mg/L	0.11	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Iron, Total	0.49		mg/L	0.056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Magnesium, Dissolved	19.1		mg/L	0.11	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Magnesium, Total	18.9		mg/L	0.11	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Manganese, Dissolved	0.033		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:13	KXH	D1



Results

Client Sample ID	FFMP02DW	Collected	05/07/2025 11:40
Lab Sample ID	3414236002	Lab Receipt	05/07/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.030		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:56	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:23	AJN	F
Nickel, Total	0.0093		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Potassium, Dissolved	1.5		mg/L	0.11	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Potassium, Total	1.4		mg/L	0.11	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Selenium, Dissolved	ND	ND,7	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Sodium, Dissolved	142		mg/L	11.0	SW846 6020A	100	05/16/2025 11:23	KXH	D1
Sodium, Total	126		mg/L	0.11	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:23	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:13	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:23	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L



Results

Client Sample ID	FFMP02DW	Collected	05/07/2025 11:40
Lab Sample ID	3414236002	Lab Receipt	05/07/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:32	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:32	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	05/15/2025 17:32	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	05/15/2025 17:32	
Dibromofluoromethane	1868-53-7	90.6%	78 – 116	05/15/2025 17:32	
Toluene-d8	2037-26-5	97.8%	76 – 127	05/15/2025 17:32	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	126		mg/L	5	SM2320B-2011	1	05/18/2025 06:03	JXK	A
Alkalinity, Total	126	5	mg/L	5	SM2320B-2011	1	05/18/2025 06:03	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/12/2025 21:00	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/09/2025 11:05	KMS	C
Chloride	354		mg/L	5.0	EPA 300.0	5	05/08/2025 14:32	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	05/08/2025 14:32	J1W	A
Nitrate-N	7.2		mg/L	2.5	EPA 300.0	5	05/08/2025 14:32	J1W	A
pH	8.14	6	pH_Units		S4500HB-11	1	05/18/2025 06:03	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 17:36	AKH	K
Specific Conductance	1460		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	43.6		mg/L	5.0	EPA 300.0	5	05/08/2025 14:32	J1W	A



Results

Client Sample ID	FFMP02DW	Collected	05/07/2025 11:40
Lab Sample ID	3414236002	Lab Receipt	05/07/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	900		mg/L	25	SM2540C-15	1	05/08/2025 15:05	RAG	A
Total Organic Carbon (TOC)	0.93		mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	7.2		NTU	0.30	SM2130B-2011	1	05/08/2025 09:44	NPF	A



Results

Client Sample ID	FFMP038W	Collected	05/07/2025 13:43
Lab Sample ID	3414236003	Lab Receipt	05/07/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	22.48		Feet		Field	1	05/07/2025 13:11	BGS	H
Dissolved Oxygen	0.03		mg/L	0.01	Field	1	05/07/2025 13:11	BGS	H
Elev Top MW Casing above MSL	454.05		Feet		Field	1	05/07/2025 13:11	BGS	H
Flow Rate	0.35		gal/min		Field	1	05/07/2025 13:11	BGS	H
Ground Water Elevation	431.57		ft/MSL		Field	1	05/07/2025 13:11	BGS	H
Oxidation-Reduction Potential	-192		mV		Field	1	05/07/2025 13:11	BGS	H
pH, Field (SM4500B)	8.14		pH_Units		Field	1	05/07/2025 13:11	BGS	H
Sample Depth	46.00		Feet		Field	1	05/07/2025 13:11	BGS	H
Specific Conductance, Field	464		umhos/cm	1	Field	1	05/07/2025 13:11	BGS	H
Temperature	10.41		Deg. C		Field	1	05/07/2025 13:11	BGS	H
Total Well Depth	52.00		Feet		Field	1	05/07/2025 13:11	BGS	H
Turbidity, Field	2		NTU	1	Field	1	05/07/2025 13:11	BGS	H
Volume in Water Column	43.39		Gallons		Field	1	05/07/2025 13:11	BGS	H
Water Level After Purge	32.41		Feet		Field	1	05/07/2025 13:11	BGS	H
Well Volumes Purged	1.13		Vol		Field	1	05/07/2025 13:11	BGS	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 17:52	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Barium, Dissolved	0.098		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Barium, Total	0.10		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Calcium, Dissolved	61.9		mg/L	0.11	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Calcium, Total	62.4		mg/L	0.11	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Iron, Dissolved	1.0		mg/L	0.056	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Iron, Total	0.78		mg/L	0.056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Magnesium, Dissolved	5.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Magnesium, Total	5.7		mg/L	0.11	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Manganese, Dissolved	0.067		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:15	KXH	D1



Results

Client Sample ID	FFMP038W	Collected	05/07/2025 13:43
Lab Sample ID	3414236003	Lab Receipt	05/07/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.053		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:58	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:36	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Potassium, Dissolved	0.94		mg/L	0.11	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Potassium, Total	0.90		mg/L	0.11	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Selenium, Dissolved	ND	ND,7	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Sodium, Dissolved	13.3		mg/L	0.11	SW846 6020A	1	05/16/2025 11:25	KXH	D1
Sodium, Total	11.4		mg/L	0.11	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:25	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:15	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:25	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L



Results

Client Sample ID	FFMP038W	Collected	05/07/2025 13:43
Lab Sample ID	3414236003	Lab Receipt	05/07/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Toluene	1.1		ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:52	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:52	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.5%	62 – 133	05/15/2025 17:52	
4-Bromofluorobenzene	460-00-4	96%	79 – 114	05/15/2025 17:52	
Dibromofluoromethane	1868-53-7	88.5%	78 – 116	05/15/2025 17:52	
Toluene-d8	2037-26-5	94.1%	76 – 127	05/15/2025 17:52	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	79		mg/L	5	SM2320B-2011	1	05/18/2025 06:14	JXK	A
Alkalinity, Total	79	5	mg/L	5	SM2320B-2011	1	05/18/2025 06:14	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/12/2025 20:15	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/09/2025 11:05	KMS	C
Chloride	97.0		mg/L	2.0	EPA 300.0	2	05/08/2025 14:43	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/08/2025 14:43	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/08/2025 14:43	J1W	A
pH	8.18	6	pH_Units		S4500HB-11	1	05/18/2025 06:14	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 18:29	AKH	K
Specific Conductance	490		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	14.1		mg/L	2.0	EPA 300.0	2	05/08/2025 14:43	J1W	A



Results

Client Sample ID	FFMP038W	Collected	05/07/2025 13:43
Lab Sample ID	3414236003	Lab Receipt	05/07/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	334		mg/L	25	SM2540C-15	1	05/08/2025 15:05	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	7.9		NTU	0.30	SM2130B-2011	1	05/08/2025 09:44	NPF	A



Results

Client Sample ID	FFMP039W	Collected	05/07/2025 14:10
Lab Sample ID	3414236004	Lab Receipt	05/07/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	16.44		Feet		Field	1	05/07/2025 12:07	BGS	H
Dissolved Oxygen	ND	ND	mg/L	0.01	Field	1	05/07/2025 12:07	BGS	H
Elev Top MW Casing above MSL	455.65		Feet		Field	1	05/07/2025 12:07	BGS	H
Flow Rate	1.88		gal/min		Field	1	05/07/2025 12:07	BGS	H
Ground Water Elevation	439.21		ft/MSL		Field	1	05/07/2025 12:07	BGS	H
Oxidation-Reduction Potential	112		mV		Field	1	05/07/2025 12:07	BGS	H
pH, Field (SM4500B)	5.82		pH_Units		Field	1	05/07/2025 12:07	BGS	H
Sample Depth	118.00		Feet		Field	1	05/07/2025 12:07	BGS	H
Specific Conductance, Field	921		umhos/cm	1	Field	1	05/07/2025 12:07	BGS	H
Temperature	14.12		Deg. C		Field	1	05/07/2025 12:07	BGS	H
Total Well Depth	131.50		Feet		Field	1	05/07/2025 12:07	BGS	H
Turbidity, Field	4		NTU	1	Field	1	05/07/2025 12:07	BGS	H
Volume in Water Column	169.14		Gallons		Field	1	05/07/2025 12:07	BGS	H
Water Level After Purge	22.07		Feet		Field	1	05/07/2025 12:07	BGS	H
Well Volumes Purged	1.06		Vol		Field	1	05/07/2025 12:07	BGS	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 18:12	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Barium, Dissolved	0.094		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Barium, Total	0.097		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Calcium, Dissolved	73.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Calcium, Total	70.1		mg/L	0.11	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Cobalt, Total	0.0059		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Iron, Dissolved	1.4		mg/L	0.056	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Iron, Total	16.7		mg/L	0.056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Magnesium, Dissolved	26.9		mg/L	0.11	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Magnesium, Total	26.7		mg/L	0.11	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Manganese, Dissolved	0.84		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:17	KXH	D1



Results

Client Sample ID	FFMP039W	Collected	05/07/2025 14:10
Lab Sample ID	3414236004	Lab Receipt	05/07/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.85		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:59	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:24	AJN	F
Nickel, Total	0.0075		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Potassium, Dissolved	6.7		mg/L	0.11	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Potassium, Total	6.5		mg/L	0.11	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Selenium, Dissolved	ND	ND,7	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Sodium, Dissolved	79.6		mg/L	1.1	SW846 6020A	10	05/16/2025 11:27	KXH	D1
Sodium, Total	74.6		mg/L	0.11	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:27	KXH	F1
Zinc, Dissolved	0.0064		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:17	KXH	D1
Zinc, Total	0.0072		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:27	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L



Results

Client Sample ID	FFMP039W	Collected	05/07/2025 14:10
Lab Sample ID	3414236004	Lab Receipt	05/07/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:12	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:12	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.9%	62 – 133	05/15/2025 18:12	
4-Bromofluorobenzene	460-00-4	96.1%	79 – 114	05/15/2025 18:12	
Dibromofluoromethane	1868-53-7	88.3%	78 – 116	05/15/2025 18:12	
Toluene-d8	2037-26-5	94.7%	76 – 127	05/15/2025 18:12	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	47		mg/L	5	SM2320B-2011	1	05/18/2025 06:26	JXK	A
Alkalinity, Total	47	5	mg/L	5	SM2320B-2011	1	05/18/2025 06:26	JXK	A
Ammonia-N, Low Level	0.32		mg/L	0.10	SM 4500-NH3G	1	05/12/2025 15:33	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/09/2025 11:05	KMS	C
Chloride	285		mg/L	5.0	EPA 300.0	5	05/08/2025 14:55	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	05/08/2025 14:55	J1W	A
Nitrate-N	2.6		mg/L	2.5	EPA 300.0	5	05/08/2025 14:55	J1W	A
pH	7.63	6	pH_Units		S4500HB-11	1	05/18/2025 06:26	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 18:23	AKH	K
Specific Conductance	1100		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	43.2		mg/L	5.0	EPA 300.0	5	05/08/2025 14:55	J1W	A



Results

Client Sample ID	FFMP039W	Collected	05/07/2025 14:10
Lab Sample ID	3414236004	Lab Receipt	05/07/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	680		mg/L	25	SM2540C-15	1	05/08/2025 15:05	RAG	A
Total Organic Carbon (TOC)	1.2		mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	170		NTU	0.30	SM2130B-2011	1	05/08/2025 09:44	NPF	A



Results

Client Sample ID	TRIP BLANK	Collected	05/07/2025 00:00
Lab Sample ID	3414236005	Lab Receipt	05/07/2025 17:00

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/05/2025 15:53	CHS	A

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A



Results

Client Sample ID	TRIP BLANK	Collected	05/07/2025 00:00
Lab Sample ID	3414236005	Lab Receipt	05/07/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 15:53	JTH	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 15:53	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	05/15/2025 15:53	
4-Bromofluorobenzene	460-00-4	94.7%	79 – 114	05/15/2025 15:53	
Dibromofluoromethane	1868-53-7	88.8%	78 – 116	05/15/2025 15:53	
Toluene-d8	2037-26-5	92.9%	76 – 127	05/15/2025 15:53	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3414236001	FFMP017W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		SW846 8260B	N/A	
		EPA 300.0	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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3414236002	FFMP02DW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3414236003	FFMP038W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3414236004	FFMP039W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3414236005	TRIP BLANK	Lib Search VOC	N/A	
		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
3414236001	FFMP017W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1431156
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1432870
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1431333
		N/A	N/A	N/A		EPA 300.0	1430852
		N/A	N/A	N/A		EPA 410.4	1431085
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1430857
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430907
		N/A	N/A	N/A		SM5310B-14	1430958
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3414236002	FFMP02DW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1431156
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1432870
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1430852
		N/A	N/A	N/A		EPA 410.4	1431085
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1430857
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430907
		N/A	N/A	N/A		SM5310B-14	1430958
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3414236003	FFMP038W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1432870
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1431156
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1430852
		N/A	N/A	N/A		EPA 410.4	1431085
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1430857
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430907
		N/A	N/A	N/A		SM5310B-14	1430958
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3414236004	FFMP039W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1431156
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1432870
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1430852
		N/A	N/A	N/A		EPA 410.4	1431085
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1430857
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430907
		N/A	N/A	N/A		SM5310B-14	1430958
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3414236005	TRIP BLANK	N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169

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.



3414236

Logged By: SLS
PM: SJB



of

Client Name: Lancaster County Solid Waste MA		Container Type	AG	AN	CG	P	P	P	P	P	P	P					
Address: 1299 Harrisburg Pike Lancaster PA 17604		Container Size	40ml	125ml	40ml	1L	500ml		250ml	125ml	125ml	125ml					
		Preservative	HCL	H2SO4	HCL	UNP	UNP		H2SO4	HNO3	HNO3	HNO3					
		Orthophosphate Filtered?	Yes	No	Hexavalent Chromium Filtered?	Yes	No			Yes	No	No					
ANALYSIS / METHOD REQUESTED																	
Contact: Dan Brown																	
Phone#: 717-553-5864																	
Project Name#: Frey Farm Annual																	
Bill To: Lancaster County Solid Waste MA																	
Purchase Order #:																	
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.																	
Date Required: Approved?																	
Email? ☒ dbrown@lcswwma.org																	
Sample Description/Location (as it will appear on the lab report)		Date Collected mm/dd/yy	Time hh:mm														
1	FWP017W	5/7/25	1038	SDWA Sample Type (see key)	G	GW	**Matrix (See bottom of COC)	TOC	O-OH	VOC (form 19A) +LS + Subtitle D	pH, CL, SpC, F, SO4, NO3, TP, TDS	Alkalinity, HCO3	FM	Sample Depth for AUX Data	NH3-N, COD	Dis Metals Fe, Mn, Na, Ba, Cr, Cu, Pb, Mg, K, Zn, As, Cd, Se, Ag, Hg, Ca	Total Metals Form 19A + Subtitle D
2	FWP020W	5/7/25	1140		G	GW		2	1	3	1	1	1	1	1	2	2
3	FWP028W	5/7/25	1243		G	GW		2	1	3	1	1	1	1	1	2	2
4	FWP029W	5/7/25	1140		G	GW		2	1	3	1	1	1	1	1	2	2
5		5/7/25															
6		5/7/25															
7		5/7/25															
8																	
9																	
10																	
Circle Sample Collector: ALS Tech / Client		Comments:															
Name:	Evan	ID:															
Date:	5/7/2025	Relinquished By / Company Name	Received By / Company Name														
	1700	1	Evan Poe (ALS)														
		3															
		5															
		7															
		9															
		10															
Data Deliverables		State Samples Collected In															
		Standard Lvl 1 ☐ CLP-like ☐ HSCA ☐ NY ☐															
		Standard Lvl 2 ☐ DOD ☐ Landfill ☐ NJ ☐															
		Standard Lvl 3 ☐ NJ RED ☐ NJ GW ☐ PA ☒															
		Standard Lvl 4 ☐ NJ Full ☐ WV ☐															
EDDs		Sample Disposal															
		Excel Summary ☐ Lab ☒ Special ☐															
		Equis ☐															
		Custom ☐															
EDDS:		Formal Type															
		other															
Contains Short Hold Testing		YES NO															
		Internal Use: If less than 48 hours - notify lab upon receipt															
Sample/COC Remarks		2 gHCL trip blanks MP 5/7/25															
SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup																	
PWSID #		PWS Contact: PWS Phone #:															
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:															
Client contact:		Date/Tech:															
Coolers & Samples Intact		Y N NA															
Correct Containers Provided		Y N NA															
Sample Label/COC Agree		Y N NA															
Adequate Sample Volumes		Y N NA															
VOA only: Trip Blank		Y N NA															
NJ ≤ 4 days?		Y N															
Courier/Tracking #																	
Temp Taken By:		Therm ID: WO Temp (°C)															
Receipt info completed by:		WV Containers 0-5°C Y N NA															
Cooler Custody Seals Intact		Y N NA Deviations? NO YES															
Sample Custody Seal Intact		Y N NA If YES, list below															
Received on Ice		Y N NA															

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

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

Rev 07.06 2023



Middletown Sample Condition Form

Client LANCASTER COUNTY SOLID WASTE Workorder 3414236

Temp °C 3 Therm ID 569 Ice? (Y) N N/A Initials & Date MP 5/7/25

Fedex UPS Client (ALS) Other Tracking # _____

	Yes	No ¹	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present <i>If not present, must contact PM/client to request name.</i>	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation				
•Number of containers				
•Composite or grab				
•Matrix				
Proper containers, preservation, and volume per method				
Received within hold time				
Containers intact	↓			
Trip blanks present (EPA 504, EPA 524)	✓			UC
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 2ND QTR 2025 FFMP-FORM 19A
Workorder 3414541
Report ID 419575 on 5/22/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 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
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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Susan Scherer
Project Coordinator

(ALS Digital Signature)



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3414541001	FFMP032W	Ground Water	05/08/2025 12:30	05/08/2025 16:00	EMP	ALS Environmental-Middletown
3414541002	FFMP02SW	Ground Water	05/08/2025 12:55	05/08/2025 16:00	EMP	ALS Environmental-Middletown



Reference

Notes

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

Standard Acronyms/Flags

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



Project Notations

Sample Notations

Lab ID Sample ID

Result Notations

Notation Ref.

1	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Bromoform.
2	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Chloroethane.
3	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Dichlorodifluoromethane.
4	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Iodomethane.
5	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
6	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.
7	The QC sample type MS for method SW846 9066 was outside the control limits for the analyte Phenolics. The % Recovery was reported as 88.1 and the control limits were 90 to 110.



Detected Results Summary

Client Sample ID	FFMP032W	Collected	05/08/2025 12:30
Lab Sample ID	3414541001	Lab Receipt	05/08/2025 16:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	53.01	Feet		Field	#
Dissolved Oxygen	0.12	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	594.09	Feet		Field	#
Flow Rate	0.47	gal/min		Field	#
Ground Water Elevation	541.08	ft/MSL		Field	#
Oxidation-Reduction Potential	-70	mV		Field	#
pH, Field (SM4500B)	6.21	pH_Units		Field	#
Sample Depth	62.00	Feet		Field	#
Specific Conductance, Field	250	umhos/cm	1	Field	#
Temperature	16.14	Deg. C		Field	#
Total Well Depth	77.60	Feet		Field	#
Turbidity, Field	39	NTU	1	Field	#
Volume in Water Column	36.15	Gallons		Field	#
Water Level After Purge	58.11	Feet		Field	#
Well Volumes Purged	0.18	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Calcium, Dissolved	17.8	mg/L	0.11	SW846 6020A	#
Calcium, Total	17.2	mg/L	0.11	SW846 6020A	#
Iron, Dissolved	8.5	mg/L	0.056	SW846 6020A	#
Iron, Total	8.7	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	6.8	mg/L	0.11	SW846 6020A	#
Magnesium, Total	6.3	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.81	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.75	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.4	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.3	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	12.8	mg/L	0.11	SW846 6020A	#
Sodium, Total	12.2	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	58	mg/L	5	SM2320B-2011	#
Alkalinity, Total	58	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.51	mg/L	0.10	SM 4500-NH3G	#
Chloride	31.9	mg/L	2.0	EPA 300.0	#
pH	8.05	pH_Units		S4500HB-11	#
Specific Conductance	228	umhos/cm	5	SM2510B-2011	#
Total Dissolved Solids	126	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.66	mg/L	0.50	SM5310B-14	#
Turbidity	75	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP02SW	Collected	05/08/2025 12:55
Lab Sample ID	3414541002	Lab Receipt	05/08/2025 16:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	14.93	Feet		Field	#
Dissolved Oxygen	7.92	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	509.90	Feet		Field	#
Flow Rate	1.00	gal/min		Field	#
Ground Water Elevation	494.97	ft/MSL		Field	#
Oxidation-Reduction Potential	191	mV		Field	#
pH, Field (SM4500B)	5.19	pH_Units		Field	#
Sample Depth	18.00	Feet		Field	#
Specific Conductance, Field	282	umhos/cm	1	Field	#
Temperature	13.65	Deg. C		Field	#
Total Well Depth	22.70	Feet		Field	#
Turbidity, Field	28	NTU	1	Field	#
Volume in Water Column	5.05	Gallons		Field	#
Water Level After Purge	19.31	Feet		Field	#
Well Volumes Purged	2.77	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.053	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.051	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	16.5	mg/L	0.11	SW846 6020A	#
Calcium, Total	15.6	mg/L	0.11	SW846 6020A	#
Copper, Dissolved	0.0076	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.0088	mg/L	0.0056	SW846 6020A	#
Iron, Total	0.23	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	6.3	mg/L	0.11	SW846 6020A	#
Magnesium, Total	5.7	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.011	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.012	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	4.5	mg/L	0.11	SW846 6020A	#
Potassium, Total	4.0	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	26.1	mg/L	0.11	SW846 6020A	#
Sodium, Total	24.3	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.025	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.025	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	21	mg/L	5	SM2320B-2011	#
Alkalinity, Total	21	mg/L	5	SM2320B-2011	#
Chloride	30.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	7.7	mg/L	1.0	EPA 300.0	#
pH	7.50	pH_Units		S4500HB-11	#
Specific Conductance	292	umhos/cm	5	SM2510B-2011	#
Sulfate	36.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	186	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.0	mg/L	0.50	SM5310B-14	#
Turbidity	7.2	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - FFMP02SW (cont.)					
Compound	Result	Units	RDL	Method	Flag



Results

Client Sample ID	FFMP032W	Collected	05/08/2025 12:30
Lab Sample ID	3414541001	Lab Receipt	05/08/2025 16:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	53.01		Feet		Field	1	05/08/2025 12:29	EMP	H
Dissolved Oxygen	0.12		mg/L	0.01	Field	1	05/08/2025 12:29	EMP	H
Elev Top MW Casing above MSL	594.09		Feet		Field	1	05/08/2025 12:29	EMP	H
Flow Rate	0.47		gal/min		Field	1	05/08/2025 12:29	EMP	H
Ground Water Elevation	541.08		ft/MSL		Field	1	05/08/2025 12:29	EMP	H
Oxidation-Reduction Potential	-70		mV		Field	1	05/08/2025 12:29	EMP	H
pH, Field (SM4500B)	6.21		pH_Units		Field	1	05/08/2025 12:29	EMP	H
Sample Depth	62.00		Feet		Field	1	05/08/2025 12:29	EMP	H
Specific Conductance, Field	250		umhos/cm	1	Field	1	05/08/2025 12:29	EMP	H
Temperature	16.14		Deg. C		Field	1	05/08/2025 12:29	EMP	H
Total Well Depth	77.60		Feet		Field	1	05/08/2025 12:29	EMP	H
Turbidity, Field	39		NTU	1	Field	1	05/08/2025 12:29	EMP	H
Volume in Water Column	36.15		Gallons		Field	1	05/08/2025 12:29	EMP	H
Water Level After Purge	58.11		Feet		Field	1	05/08/2025 12:29	EMP	H
Well Volumes Purged	0.18		Vol		Field	1	05/08/2025 12:29	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 18:32	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Barium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Barium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Calcium, Dissolved	17.8		mg/L	0.11	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Calcium, Total	17.2		mg/L	0.11	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Iron, Dissolved	8.5		mg/L	0.056	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Iron, Total	8.7		mg/L	0.056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Magnesium, Dissolved	6.8		mg/L	0.11	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Magnesium, Total	6.3		mg/L	0.11	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Manganese, Dissolved	0.81		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:43	KXH	D1



Results

Client Sample ID	FFMP032W	Collected	05/08/2025 12:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.75		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/13/2025 10:21	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/13/2025 10:59	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Potassium, Dissolved	1.4		mg/L	0.11	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Potassium, Total	1.3		mg/L	0.11	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Sodium, Dissolved	12.8		mg/L	0.11	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Sodium, Total	12.2		mg/L	0.11	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:29	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:43	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:29	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L



Results

Client Sample ID	FFMP032W	Collected	05/08/2025 12:30
Lab Sample ID	3414541001	Lab Receipt	05/08/2025 16:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:32	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:32	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100 %	62 – 133	05/15/2025 18:32	
4-Bromofluorobenzene	460-00-4	90 %	79 – 114	05/15/2025 18:32	
Dibromofluoromethane	1868-53-7	88.4 %	78 – 116	05/15/2025 18:32	
Toluene-d8	2037-26-5	92.5 %	76 – 127	05/15/2025 18:32	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	58		mg/L	5	SM2320B-2011	1	05/18/2025 12:49	JXK	A
Alkalinity, Total	58	5	mg/L	5	SM2320B-2011	1	05/18/2025 12:49	JXK	A
Ammonia-N, Low Level	0.51		mg/L	0.10	SM 4500-NH3G	1	05/12/2025 16:36	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/12/2025 14:24	KMS	C
Chloride	31.9		mg/L	2.0	EPA 300.0	2	05/09/2025 13:43	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/09/2025 13:43	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/09/2025 13:43	J1W	A
pH	8.05	6	pH_Units		S4500HB-11	1	05/18/2025 12:49	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 17:31	AKH	K
Specific Conductance	228		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	05/09/2025 13:43	J1W	A



Results

Client Sample ID	FFMP032W	Collected	05/08/2025 12:30
Lab Sample ID	3414541001	Lab Receipt	05/08/2025 16:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	126		mg/L	25	SM2540C-15	1	05/09/2025 16:30	RAG	A
Total Organic Carbon (TOC)	0.66		mg/L	0.50	SM5310B-14	1	05/10/2025 00:28	PAG	I
Turbidity	75		NTU	0.30	SM2130B-2011	1	05/09/2025 09:20	NPF	A



Results

Client Sample ID	FFMP02SW	Collected	05/08/2025 12:55
Lab Sample ID	3414541002	Lab Receipt	05/08/2025 16:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	14.93		Feet		Field	1	05/08/2025 12:55	EMP	H
Dissolved Oxygen	7.92		mg/L	0.01	Field	1	05/08/2025 12:55	EMP	H
Elev Top MW Casing above MSL	509.90		Feet		Field	1	05/08/2025 12:55	EMP	H
Flow Rate	1.00		gal/min		Field	1	05/08/2025 12:55	EMP	H
Ground Water Elevation	494.97		ft/MSL		Field	1	05/08/2025 12:55	EMP	H
Oxidation-Reduction Potential	191		mV		Field	1	05/08/2025 12:55	EMP	H
pH, Field (SM4500B)	5.19		pH_Units		Field	1	05/08/2025 12:55	EMP	H
Sample Depth	18.00		Feet		Field	1	05/08/2025 12:55	EMP	H
Specific Conductance, Field	282		umhos/cm	1	Field	1	05/08/2025 12:55	EMP	H
Temperature	13.65		Deg. C		Field	1	05/08/2025 12:55	EMP	H
Total Well Depth	22.70		Feet		Field	1	05/08/2025 12:55	EMP	H
Turbidity, Field	28		NTU	1	Field	1	05/08/2025 12:55	EMP	H
Volume in Water Column	5.05		Gallons		Field	1	05/08/2025 12:55	EMP	H
Water Level After Purge	19.31		Feet		Field	1	05/08/2025 12:55	EMP	H
Well Volumes Purged	2.77		Vol		Field	1	05/08/2025 12:55	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 18:52	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Barium, Dissolved	0.053		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Barium, Total	0.051		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Calcium, Dissolved	16.5		mg/L	0.11	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Calcium, Total	15.6		mg/L	0.11	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Copper, Dissolved	0.0076		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Copper, Total	0.0088		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Iron, Total	0.23		mg/L	0.056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Magnesium, Dissolved	6.3		mg/L	0.11	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Magnesium, Total	5.7		mg/L	0.11	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Manganese, Dissolved	0.011		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:46	KXH	D1



Results

Client Sample ID	FFMP02SW	Collected	05/08/2025 12:55
Lab Sample ID	3414541002	Lab Receipt	05/08/2025 16:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.012		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/13/2025 10:34	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/13/2025 10:55	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Potassium, Dissolved	4.5		mg/L	0.11	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Potassium, Total	4.0		mg/L	0.11	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Sodium, Dissolved	26.1		mg/L	0.11	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Sodium, Total	24.3		mg/L	0.11	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:31	KXH	F1
Zinc, Dissolved	0.025		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:46	KXH	D1
Zinc, Total	0.025		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:31	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L



Results

Client Sample ID	FFMP02SW	Collected	05/08/2025 12:55
Lab Sample ID	3414541002	Lab Receipt	05/08/2025 16:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 18:52	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 18:52	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	05/15/2025 18:52	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	05/15/2025 18:52	
Dibromofluoromethane	1868-53-7	88.1%	78 – 116	05/15/2025 18:52	
Toluene-d8	2037-26-5	95%	76 – 127	05/15/2025 18:52	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	21		mg/L	5	SM2320B-2011	1	05/18/2025 13:04	JXK	A
Alkalinity, Total	21	5	mg/L	5	SM2320B-2011	1	05/18/2025 13:04	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/12/2025 19:09	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/12/2025 14:24	KMS	C
Chloride	30.6		mg/L	2.0	EPA 300.0	2	05/09/2025 13:57	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/09/2025 13:57	J1W	A
Nitrate-N	7.7		mg/L	1.0	EPA 300.0	2	05/09/2025 13:57	J1W	A
pH	7.50	6	pH_Units		S4500HB-11	1	05/18/2025 13:04	JXK	A
Phenolics	ND	ND,7	mg/L	0.004	SW846 9066	1	05/21/2025 15:19	AKH	K
Specific Conductance	292		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	36.3		mg/L	2.0	EPA 300.0	2	05/09/2025 13:57	J1W	A



Results

Client Sample ID	FFMP02SW	Collected	05/08/2025 12:55
Lab Sample ID	3414541002	Lab Receipt	05/08/2025 16:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	186		mg/L	25	SM2540C-15	1	05/09/2025 16:30	RAG	A
Total Organic Carbon (TOC)	2.0		mg/L	0.50	SM5310B-14	1	05/10/2025 00:28	PAG	I
Turbidity	7.2		NTU	0.30	SM2130B-2011	1	05/09/2025 09:20	NPF	A



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3414541001	FFMP032W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3414541002	FFMP02SW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	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
3414541001	FFMP032W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1432594	05/13/2025 05:28	AJN	SW846 7470A	1433120
		SW846 7470A	1432586	05/13/2025 05:28	AJN	SW846 7470A	1433119
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1431070
		N/A	N/A	N/A		EPA 410.4	1432628
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432571
		N/A	N/A	N/A		SM2130B-2011	1431067
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1431118
		N/A	N/A	N/A		SM5310B-14	1431178
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3414541002	FFMP02SW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1432594	05/13/2025 05:28	AJN	SW846 7470A	1433120
		SW846 7470A	1432586	05/13/2025 05:28	AJN	SW846 7470A	1433119
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1431070
		N/A	N/A	N/A		EPA 410.4	1432628
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1431067
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1431118
		N/A	N/A	N/A		SM5310B-14	1431178
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993



**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

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

3414541

Logged By: SLS
PM: SJB



Client Name: Lancaster County Solid Waste MA										by Receiving Lab) WO Temp (°C) 2									
Address: 1299 Harrisburg Pike Lancaster PA 17604										Therm ID: _____									
Contact: Dan Brown Phone#: 717-553-5864 Project Name#: Frey Farm Annual Bill To: Lancaster County Solid Waste MA Purchase Order #:										Temp Taken By: _____									
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges. Date Required: _____ Approved? Email? ☒ dbrown@lcswwma.org										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 NJ ≤ 4 days? Y N Courier/Tracking # _____ Client contact: _____ Date/Tech: _____									
Sample Description/Location (as it will appear on the lab report)										Sample(s) for Radiation testing? Y N Reportable SDWA Sample(s)? Y N SDWA State of Origin? _____ PWSID # _____ PWS Contact: _____ PWS Phone #: _____									
1 FFW02AW 5-8-05 1230										SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup									
2 FFW02SW 5-8-05 1255										Sample/COC Remarks									
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Circle Sample Collector: ALS Tech / Client Name: Evan ID: _____										Contains Short Hold Testing YES NO Internal Use: If less than 48 hours - notify lab upon receipt									
Date: 5-8-05 1600										State Samples Collected In NY NJ PA WV FL other									
Relinquished By / Company Name: _____										Standard Lvl 1 CLP-like HSCA Standard Lvl 2 DOD Landfill Standard Lvl 3 NJ RED NJ GW Standard Lvl 4 NJ Full									
1 ALS 5-8-05										Sample Disposal Lab Special									
3																			
5																			
7																			
9																			
Comments: _____										Data Deliverables Excel Summary Equis Custom									
EDDS: 10										Format Type									



Middletown Sample Condition Form

Client Lancaster County Workorder 3414541
Temp °C 2 Therm ID 649 Ice? Y N N/A Initials & Date DB 5/8/25
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 <i>If not present, must contact PM/client to request name.</i>	✓			
COC/bottle labels complete & in agreement		⊗		
• Sample location	✓			
• Date and time of sample collection	✓			
• Type(s) of preservation	✓			
• Number of containers	✓			
• Composite or grab	✓			
• Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)			✓	
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:



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

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**
Project 2ND QTR 2025 FFMP-FORM 19A
Workorder 3413984
Report ID 422171 on 5/29/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 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

Susan Scherer

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

Susan Scherer
Project Coordinator

(ALS Digital Signature)



Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3413984001	FFMP03AW	Ground Water	05/06/2025 09:49	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984002	FFMP26RW	Ground Water	05/06/2025 12:37	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984003	FFMP005W	Ground Water	05/06/2025 13:07	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984004	FFMP035W	Ground Water	05/06/2025 14:55	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984005	FFMP036W	Ground Water	05/06/2025 15:35	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984006	FIELD BLANK	Water	05/06/2025 08:30	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984007	TRIP BLANK	Water	05/06/2025 17:00	05/06/2025 17:00	EMP	ALS Environmental-Middletown
3413984008	FFMP033W	Ground Water	05/06/2025 11:01	05/06/2025 17:00	CBC	Collected By Client



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 ICV recovery yielded 65.45% recovery (limits 70-130%) for method SW846 8260B for the analyte Chloroethane.
2	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
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 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.
6	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
7	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Bromoform.
8	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Chloroethane.
9	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Dichlorodifluoromethane.
10	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Iodomethane.
11	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Selenium. The % RSD was reported as 26.1 and the control limits were 0 to 20.



Detected Results Summary

Client Sample ID	FFMP03AW	Collected	05/06/2025 09:49
Lab Sample ID	3413984001	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	53.93	Feet		Field	#
Dissolved Oxygen	2.74	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	590.90	Feet		Field	#
Flow Rate	1.79	gal/min		Field	#
Ground Water Elevation	536.97	ft/MSL		Field	#
Oxidation-Reduction Potential	338	mV		Field	#
pH, Field (SM4500B)	5.01	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	397	umhos/cm	1	Field	#
Temperature	14.65	Deg. C		Field	#
Total Well Depth	148.40	Feet		Field	#
Volume in Water Column	138.87	Gallons		Field	#
Water Level After Purge	92.38	Feet		Field	#
Well Volumes Purged	1.03	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.066	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.063	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	21.1	mg/L	0.11	SW846 6020A	#
Calcium, Total	20.3	mg/L	0.11	SW846 6020A	#
Copper, Dissolved	0.0066	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.0063	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	18.6	mg/L	0.11	SW846 6020A	#
Magnesium, Total	17.3	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.38	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.37	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.012	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.6	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.5	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	18.0	mg/L	0.11	SW846 6020A	#
Sodium, Total	16.5	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.025	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.024	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	15	mg/L	5	SM2320B-2011	#
Alkalinity, Total	15	mg/L	5	SM2320B-2011	#
Chloride	57.8	mg/L	2.0	EPA 300.0	#
Nitrate-N	20.8	mg/L	1.0	EPA 300.0	#
pH	7.50	pH_Units		S4500HB-11	#
Specific Conductance	402	umhos/cm	5	SM2510B-2011	#
Sulfate	3.3	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	282	mg/L	25	SM2540C-15	#
Turbidity	0.75	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP26RW	Collected	05/06/2025 12:37
Lab Sample ID	3413984002	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	89.43	Feet		Field	#
Dissolved Oxygen	0.19	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	547.40	Feet		Field	#
Flow Rate	0.94	gal/min		Field	#
Ground Water Elevation	457.97	ft/MSL		Field	#
Oxidation-Reduction Potential	305	mV		Field	#
pH, Field (SM4500B)	5.59	pH_Units		Field	#
Sample Depth	105.00	Feet		Field	#
Specific Conductance, Field	791	umhos/cm	1	Field	#
Temperature	15.89	Deg. C		Field	#
Total Well Depth	118.30	Feet		Field	#
Volume in Water Column	42.44	Gallons		Field	#
Water Level After Purge	93.92	Feet		Field	#
Well Volumes Purged	1.11	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.078	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.073	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	62.4	mg/L	0.11	SW846 6020A	#
Calcium, Total	60.9	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.022	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	16.8	mg/L	0.11	SW846 6020A	#
Magnesium, Total	15.5	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.63	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.60	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	8.3	mg/L	0.11	SW846 6020A	#
Potassium, Total	7.7	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	55.7	mg/L	0.11	SW846 6020A	#
Sodium, Total	51.6	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0094	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0084	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	65	mg/L	5	SM2320B-2011	#
Alkalinity, Total	65	mg/L	5	SM2320B-2011	#
Chloride	140	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.6	mg/L	1.0	EPA 300.0	#
pH	8.04	pH_Units		S4500HB-11	#
Specific Conductance	797	umhos/cm	5	SM2510B-2011	#
Sulfate	97.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	468	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.9	mg/L	0.50	SM5310B-14	#



Detected Results Summary

Client Sample ID	FFMP005W	Collected	05/06/2025 13:07
Lab Sample ID	3413984003	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	64.58	Feet		Field	#
Dissolved Oxygen	0.64	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	537.40	Feet		Field	#
Flow Rate	1.79	gal/min		Field	#
Ground Water Elevation	472.82	ft/MSL		Field	#
Oxidation-Reduction Potential	271	mV		Field	#
pH, Field (SM4500B)	5.54	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	849	umhos/cm	1	Field	#
Temperature	13.84	Deg. C		Field	#
Total Well Depth	149.70	Feet		Field	#
Volume in Water Column	125.13	Gallons		Field	#
Water Level After Purge	83.70	Feet		Field	#
Well Volumes Purged	1.07	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.048	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.046	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	71.6	mg/L	0.11	SW846 6020A	#
Calcium, Total	68.9	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	19.1	mg/L	0.11	SW846 6020A	#
Magnesium, Total	17.8	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.17	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.15	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	3.3	mg/L	0.11	SW846 6020A	#
Potassium, Total	3.1	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	53.9	mg/L	0.11	SW846 6020A	#
Sodium, Total	50.4	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	62	mg/L	5	SM2320B-2011	#
Alkalinity, Total	62	mg/L	5	SM2320B-2011	#
Chloride	174	mg/L	2.0	EPA 300.0	#
Nitrate-N	2.1	mg/L	1.0	EPA 300.0	#
pH	8.00	pH_Units		S4500HB-11	#
Specific Conductance	864	umhos/cm	5	SM2510B-2011	#
Sulfate	84.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	576	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.5	mg/L	0.50	SM5310B-14	#
Turbidity	0.60	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP035W	Collected	05/06/2025 14:55
Lab Sample ID	3413984004	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	43.08	Feet		Field	#
Dissolved Oxygen	0.41	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	477.56	Feet		Field	#
Flow Rate	0.81	gal/min		Field	#
Ground Water Elevation	434.48	ft/MSL		Field	#
Oxidation-Reduction Potential	131	mV		Field	#
pH, Field (SM4500B)	6.58	pH_Units		Field	#
Sample Depth	65.00	Feet		Field	#
Specific Conductance, Field	919	umhos/cm	1	Field	#
Temperature	23.09	Deg. C		Field	#
Total Well Depth	71.80	Feet		Field	#
Turbidity, Field	3	NTU	1	Field	#
Volume in Water Column	42.22	Gallons		Field	#
Water Level After Purge	48.65	Feet		Field	#
Well Volumes Purged	1.25	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.10	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.096	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	95.5	mg/L	0.11	SW846 6020A	#
Calcium, Total	91.1	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	18.1	mg/L	0.11	SW846 6020A	#
Magnesium, Total	16.5	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.015	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.015	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0082	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	3.1	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.9	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	49.6	mg/L	0.11	SW846 6020A	#
Sodium, Total	45.8	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.013	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0098	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	138	mg/L	5	SM2320B-2011	#
Alkalinity, Total	138	mg/L	5	SM2320B-2011	#
Chloride	162	mg/L	2.0	EPA 300.0	#
Nitrate-N	7.1	mg/L	1.0	EPA 300.0	#
pH	8.18	pH_Units		S4500HB-11	#
Phenolics	0.005	mg/L	0.004	SW846 9066	#
Specific Conductance	877	umhos/cm	5	SM2510B-2011	#
Sulfate	45.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	626	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.98	mg/L	0.50	SM5310B-14	#
Turbidity	1.2	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP036W	Collected	05/06/2025 15:35
Lab Sample ID	3413984005	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	50.90	Feet		Field	#
Dissolved Oxygen	0.06	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	478.23	Feet		Field	#
Flow Rate	1.66	gal/min		Field	#
Ground Water Elevation	427.33	ft/MSL		Field	#
Oxidation-Reduction Potential	-178	mV		Field	#
pH, Field (SM4500B)	7.98	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	373	umhos/cm	1	Field	#
Temperature	15.27	Deg. C		Field	#
Total Well Depth	142.60	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	134.80	Gallons		Field	#
Water Level After Purge	79.24	Feet		Field	#
Well Volumes Purged	1.35	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.15	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.15	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	52.6	mg/L	0.11	SW846 6020A	#
Calcium, Total	47.9	mg/L	0.11	SW846 6020A	#
Iron, Dissolved	0.67	mg/L	0.056	SW846 6020A	#
Iron, Total	0.99	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	5.5	mg/L	0.11	SW846 6020A	#
Magnesium, Total	5.0	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.10	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.090	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	0.89	mg/L	0.11	SW846 6020A	#
Potassium, Total	0.77	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	15.7	mg/L	0.11	SW846 6020A	#
Sodium, Total	14.3	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	103	mg/L	5	SM2320B-2011	#
Alkalinity, Total	103	mg/L	5	SM2320B-2011	#
Chloride	35.0	mg/L	2.0	EPA 300.0	#
Fluoride	0.27	mg/L	0.20	EPA 300.0	#
pH	8.41	pH_Units		S4500HB-11	#
Specific Conductance	380	umhos/cm	5	SM2510B-2011	#
Sulfate	34.1	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	234	mg/L	25	SM2540C-15	#
Turbidity	5.8	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FIELD BLANK	Collected	05/06/2025 08:30
Lab Sample ID	3413984006	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#



Detected Results Summary

Client Sample ID	TRIP BLANK	Collected	05/06/2025 17:00
Lab Sample ID	3413984007	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#



Detected Results Summary

Client Sample ID	FFMP033W	Collected	05/06/2025 11:01
Lab Sample ID	3413984008	Lab Receipt	05/06/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	20.70	Feet		Field	#
Dissolved Oxygen	1.05	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	516.52	Feet		Field	#
Flow Rate	1.63	gal/min		Field	#
Ground Water Elevation	495.82	ft/MSL		Field	#
Oxidation-Reduction Potential	147	mV		Field	#
pH, Field (SM4500B)	5.42	pH_Units		Field	#
Sample Depth	79.00	Feet		Field	#
Specific Conductance, Field	448	umhos/cm	1	Field	#
Temperature	15.71	Deg. C		Field	#
Total Well Depth	100.00	Feet		Field	#
Turbidity, Field	3	NTU	1	Field	#
Volume in Water Column	116.57	Gallons		Field	#
Water Level After Purge	38.83	Feet		Field	#
Well Volumes Purged	2.31	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.068	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.075	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	34.3	mg/L	0.11	SW846 6020A	#
Calcium, Total	34.4	mg/L	0.11	SW846 6020A	#
Chromium, Dissolved	0.0024	mg/L	0.0022	SW846 6020A	#
Iron, Dissolved	2.9	mg/L	0.056	SW846 6020A	#
Iron, Total	42.5	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	13.0	mg/L	0.11	SW846 6020A	#
Magnesium, Total	12.9	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.18	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.24	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.8	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.8	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	19.6	mg/L	0.11	SW846 6020A	#
Sodium, Total	18.5	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0089	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0069	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	33	mg/L	5	SM2320B-2011	#
Alkalinity, Total	33	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	0.23	mg/L	0.10	SM 4500-NH3G	#
Chloride	84.5	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.1	mg/L	1.0	EPA 300.0	#
pH	7.79	pH_Units		S4500HB-11	#
Specific Conductance	457	umhos/cm	5	SM2510B-2011	#
Sulfate	11.9	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	308	mg/L	25	SM2540C-15	#
Turbidity	150	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - FFMP033W (cont.)					
Compound	Result	Units	RDL	Method	Flag



Results

Client Sample ID	FFMP03AW	Collected	05/06/2025 09:49
Lab Sample ID	3413984001	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	53.93		Feet		Field	1	05/06/2025 09:49	EMP	H
Dissolved Oxygen	2.74		mg/L	0.01	Field	1	05/06/2025 09:49	EMP	H
Elev Top MW Casing above MSL	590.90		Feet		Field	1	05/06/2025 09:49	EMP	H
Flow Rate	1.79		gal/min		Field	1	05/06/2025 09:49	EMP	H
Ground Water Elevation	536.97		ft/MSL		Field	1	05/06/2025 09:49	EMP	H
Oxidation-Reduction Potential	338		mV		Field	1	05/06/2025 09:49	EMP	H
pH, Field (SM4500B)	5.01		pH_Units		Field	1	05/06/2025 09:49	EMP	H
Sample Depth	130.00		Feet		Field	1	05/06/2025 09:49	EMP	H
Specific Conductance, Field	397		umhos/cm	1	Field	1	05/06/2025 09:49	EMP	H
Temperature	14.65		Deg. C		Field	1	05/06/2025 09:49	EMP	H
Total Well Depth	148.40		Feet		Field	1	05/06/2025 09:49	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/06/2025 09:49	EMP	H
Volume in Water Column	138.87		Gallons		Field	1	05/06/2025 09:49	EMP	H
Water Level After Purge	92.38		Feet		Field	1	05/06/2025 09:49	EMP	H
Well Volumes Purged	1.03		Vol		Field	1	05/06/2025 09:49	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/15/2025 16:39	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Barium, Dissolved	0.066		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Barium, Total	0.063		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Calcium, Dissolved	21.1		mg/L	0.11	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Calcium, Total	20.3	6	mg/L	0.11	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Copper, Dissolved	0.0066		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Copper, Total	0.0063		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Magnesium, Dissolved	18.6		mg/L	0.11	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Magnesium, Total	17.3	6	mg/L	0.11	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Manganese, Dissolved	0.38		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:32	KXH	D2



Results

Client Sample ID	FFMP03AW	Collected	05/06/2025 09:49
Lab Sample ID	3413984001	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.37		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 10:10	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:31	AJN	F
Nickel, Total	0.012		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Potassium, Dissolved	1.6		mg/L	0.11	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Potassium, Total	1.5		mg/L	0.11	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Sodium, Dissolved	18.0		mg/L	0.11	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Sodium, Total	16.5	6	mg/L	0.11	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:43	KXH	F1
Zinc, Dissolved	0.025		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:32	KXH	D2
Zinc, Total	0.024		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:43	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L



Results

Client Sample ID	FFMP03AW	Collected	05/06/2025 09:49
Lab Sample ID	3413984001	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:39	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:39	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	112%	62 – 133	05/15/2025 16:39	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	05/15/2025 16:39	
Dibromofluoromethane	1868-53-7	101%	78 – 116	05/15/2025 16:39	
Toluene-d8	2037-26-5	105%	76 – 127	05/15/2025 16:39	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	15		mg/L	5	SM2320B-2011	1	05/19/2025 04:18	JXK	A
Alkalinity, Total	15	2	mg/L	5	SM2320B-2011	1	05/19/2025 04:18	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 21:33	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/08/2025 10:55	KMS	C
Chloride	57.8		mg/L	2.0	EPA 300.0	2	05/07/2025 17:34	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2025 17:34	J1W	A
Nitrate-N	20.8	E,3,4	mg/L	1.0	EPA 300.0	2	05/07/2025 17:34	J1W	A
pH	7.50	5	pH_Units		S4500HB-11	1	05/17/2025 13:25	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 18:37	AKH	K
Specific Conductance	402		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	3.3		mg/L	2.0	EPA 300.0	2	05/07/2025 17:34	J1W	A



Results

Client Sample ID	FFMP03AW	Collected	05/06/2025 09:49
Lab Sample ID	3413984001	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	282		mg/L	25	SM2540C-15	1	05/07/2025 15:55	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	0.75		NTU	0.30	SM2130B-2011	1	05/07/2025 08:35	NPF	A



Results

Client Sample ID	FFMP26RW	Collected	05/06/2025 12:37
Lab Sample ID	3413984002	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	89.43		Feet		Field	1	05/06/2025 12:37	EMP	H
Dissolved Oxygen	0.19		mg/L	0.01	Field	1	05/06/2025 12:37	EMP	H
Elev Top MW Casing above MSL	547.40		Feet		Field	1	05/06/2025 12:37	EMP	H
Flow Rate	0.94		gal/min		Field	1	05/06/2025 12:37	EMP	H
Ground Water Elevation	457.97		ft/MSL		Field	1	05/06/2025 12:37	EMP	H
Oxidation-Reduction Potential	305		mV		Field	1	05/06/2025 12:37	EMP	H
pH, Field (SM4500B)	5.59		pH_Units		Field	1	05/06/2025 12:37	EMP	H
Sample Depth	105.00		Feet		Field	1	05/06/2025 12:37	EMP	H
Specific Conductance, Field	791		umhos/cm	1	Field	1	05/06/2025 12:37	EMP	H
Temperature	15.89		Deg. C		Field	1	05/06/2025 12:37	EMP	H
Total Well Depth	118.30		Feet		Field	1	05/06/2025 12:37	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/06/2025 12:37	EMP	H
Volume in Water Column	42.44		Gallons		Field	1	05/06/2025 12:37	EMP	H
Water Level After Purge	93.92		Feet		Field	1	05/06/2025 12:37	EMP	H
Well Volumes Purged	1.11		Vol		Field	1	05/06/2025 12:37	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/15/2025 16:59	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Barium, Dissolved	0.078		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Barium, Total	0.073		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Calcium, Dissolved	62.4		mg/L	0.11	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Calcium, Total	60.9		mg/L	0.11	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Cobalt, Total	0.022		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Magnesium, Dissolved	16.8		mg/L	0.11	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Magnesium, Total	15.5		mg/L	0.11	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Manganese, Dissolved	0.63		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:35	KXH	D2



Results

Client Sample ID	FFMP26RW	Collected	05/06/2025 12:37
Lab Sample ID	3413984002	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.60		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 10:03	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:39	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Potassium, Dissolved	8.3		mg/L	0.11	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Potassium, Total	7.7		mg/L	0.11	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Sodium, Dissolved	55.7		mg/L	0.11	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Sodium, Total	51.6		mg/L	0.11	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:50	KXH	F1
Zinc, Dissolved	0.0094		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:35	KXH	D2
Zinc, Total	0.0084		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:50	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L



Results

Client Sample ID	FFMP26RW	Collected	05/06/2025 12:37
Lab Sample ID	3413984002	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:59	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:59	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	117%	62 – 133	05/15/2025 16:59	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	05/15/2025 16:59	
Dibromofluoromethane	1868-53-7	105%	78 – 116	05/15/2025 16:59	
Toluene-d8	2037-26-5	112%	76 – 127	05/15/2025 16:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	65		mg/L	5	SM2320B-2011	1	05/19/2025 04:29	JXK	A
Alkalinity, Total	65	2	mg/L	5	SM2320B-2011	1	05/19/2025 04:29	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 21:21	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/08/2025 10:55	KMS	C
Chloride	140		mg/L	2.0	EPA 300.0	2	05/07/2025 17:47	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2025 17:47	J1W	A
Nitrate-N	1.6		mg/L	1.0	EPA 300.0	2	05/07/2025 17:47	J1W	A
pH	8.04	5	pH_Units		S4500HB-11	1	05/17/2025 13:36	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/28/2025 17:58	AKH	K
Specific Conductance	797		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	97.9		mg/L	2.0	EPA 300.0	2	05/07/2025 17:47	J1W	A



Results

Client Sample ID	FFMP26RW	Collected	05/06/2025 12:37
Lab Sample ID	3413984002	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	468		mg/L	25	SM2540C-15	1	05/07/2025 15:55	RAG	A
Total Organic Carbon (TOC)	1.9		mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/07/2025 08:35	NPF	A



Results

Client Sample ID	FFMP005W	Collected	05/06/2025 13:07
Lab Sample ID	3413984003	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	64.58		Feet		Field	1	05/06/2025 13:06	EMP	H
Dissolved Oxygen	0.64		mg/L	0.01	Field	1	05/06/2025 13:06	EMP	H
Elev Top MW Casing above MSL	537.40		Feet		Field	1	05/06/2025 13:06	EMP	H
Flow Rate	1.79		gal/min		Field	1	05/06/2025 13:06	EMP	H
Ground Water Elevation	472.82		ft/MSL		Field	1	05/06/2025 13:06	EMP	H
Oxidation-Reduction Potential	271		mV		Field	1	05/06/2025 13:06	EMP	H
pH, Field (SM4500B)	5.54		pH_Units		Field	1	05/06/2025 13:06	EMP	H
Sample Depth	135.00		Feet		Field	1	05/06/2025 13:06	EMP	H
Specific Conductance, Field	849		umhos/cm	1	Field	1	05/06/2025 13:06	EMP	H
Temperature	13.84		Deg. C		Field	1	05/06/2025 13:06	EMP	H
Total Well Depth	149.70		Feet		Field	1	05/06/2025 13:06	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/06/2025 13:06	EMP	H
Volume in Water Column	125.13		Gallons		Field	1	05/06/2025 13:06	EMP	H
Water Level After Purge	83.70		Feet		Field	1	05/06/2025 13:06	EMP	H
Well Volumes Purged	1.07		Vol		Field	1	05/06/2025 13:06	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/15/2025 17:19	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Barium, Dissolved	0.048		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Barium, Total	0.046		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Calcium, Dissolved	71.6		mg/L	0.11	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Calcium, Total	68.9		mg/L	0.11	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Magnesium, Dissolved	19.1		mg/L	0.11	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Magnesium, Total	17.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Manganese, Dissolved	0.17		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:37	KXH	D2



Results

Client Sample ID	FFMP005W	Collected	05/06/2025 13:07
Lab Sample ID	3413984003	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.15		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 10:04	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:41	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Potassium, Dissolved	3.3		mg/L	0.11	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Potassium, Total	3.1		mg/L	0.11	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Sodium, Dissolved	53.9		mg/L	0.11	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Sodium, Total	50.4		mg/L	0.11	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:52	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:37	KXH	D2
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:52	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L



Results

Client Sample ID	FFMP005W	Collected	05/06/2025 13:07
Lab Sample ID	3413984003	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:19	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:19	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	113%	62 – 133	05/15/2025 17:19	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	05/15/2025 17:19	
Dibromofluoromethane	1868-53-7	101%	78 – 116	05/15/2025 17:19	
Toluene-d8	2037-26-5	106%	76 – 127	05/15/2025 17:19	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	62		mg/L	5	SM2320B-2011	1	05/19/2025 04:41	JXK	A
Alkalinity, Total	62	2	mg/L	5	SM2320B-2011	1	05/19/2025 04:41	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 22:09	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/08/2025 10:55	KMS	C
Chloride	174		mg/L	2.0	EPA 300.0	2	05/07/2025 18:01	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2025 18:01	J1W	A
Nitrate-N	2.1		mg/L	1.0	EPA 300.0	2	05/07/2025 18:01	J1W	A
pH	8.00	5	pH_Units		S4500HB-11	1	05/17/2025 13:46	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 17:46	AKH	K
Specific Conductance	864		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	84.1		mg/L	2.0	EPA 300.0	2	05/07/2025 18:01	J1W	A



Results

Client Sample ID	FFMP005W	Collected	05/06/2025 13:07
Lab Sample ID	3413984003	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	576		mg/L	25	SM2540C-15	1	05/07/2025 15:55	RAG	A
Total Organic Carbon (TOC)	1.5		mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	0.60		NTU	0.30	SM2130B-2011	1	05/07/2025 08:35	NPF	A



Results

Client Sample ID	FFMP035W	Collected	05/06/2025 14:55
Lab Sample ID	3413984004	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	43.08		Feet		Field	1	05/06/2025 14:55	EMP	H
Dissolved Oxygen	0.41		mg/L	0.01	Field	1	05/06/2025 14:55	EMP	H
Elev Top MW Casing above MSL	477.56		Feet		Field	1	05/06/2025 14:55	EMP	H
Flow Rate	0.81		gal/min		Field	1	05/06/2025 14:55	EMP	H
Ground Water Elevation	434.48		ft/MSL		Field	1	05/06/2025 14:55	EMP	H
Oxidation-Reduction Potential	131		mV		Field	1	05/06/2025 14:55	EMP	H
pH, Field (SM4500B)	6.58		pH_Units		Field	1	05/06/2025 14:55	EMP	H
Sample Depth	65.00		Feet		Field	1	05/06/2025 14:55	EMP	H
Specific Conductance, Field	919		umhos/cm	1	Field	1	05/06/2025 14:55	EMP	H
Temperature	23.09		Deg. C		Field	1	05/06/2025 14:55	EMP	H
Total Well Depth	71.80		Feet		Field	1	05/06/2025 14:55	EMP	H
Turbidity, Field	3		NTU	1	Field	1	05/06/2025 14:55	EMP	H
Volume in Water Column	42.22		Gallons		Field	1	05/06/2025 14:55	EMP	H
Water Level After Purge	48.65		Feet		Field	1	05/06/2025 14:55	EMP	H
Well Volumes Purged	1.25		Vol		Field	1	05/06/2025 14:55	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/15/2025 17:39	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Barium, Dissolved	0.10		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Barium, Total	0.096		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Calcium, Dissolved	95.5		mg/L	0.11	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Calcium, Total	91.1		mg/L	0.11	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Magnesium, Dissolved	18.1		mg/L	0.11	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Magnesium, Total	16.5		mg/L	0.11	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Manganese, Dissolved	0.015		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:39	KXH	D2



Results

Client Sample ID	FFMP035W	Collected	05/06/2025 14:55
Lab Sample ID	3413984004	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.015		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 10:08	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:42	AJN	F
Nickel, Total	0.0082		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Potassium, Dissolved	3.1		mg/L	0.11	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Potassium, Total	2.9		mg/L	0.11	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Sodium, Dissolved	49.6		mg/L	0.11	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Sodium, Total	45.8		mg/L	0.11	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:14	KXH	F1
Zinc, Dissolved	0.013		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:39	KXH	D2
Zinc, Total	0.0098		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:14	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L



Results

Client Sample ID	FFMP035W	Collected	05/06/2025 14:55
Lab Sample ID	3413984004	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:39	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:39	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	05/15/2025 17:39	
4-Bromofluorobenzene	460-00-4	97.7%	79 – 114	05/15/2025 17:39	
Dibromofluoromethane	1868-53-7	97.5%	78 – 116	05/15/2025 17:39	
Toluene-d8	2037-26-5	102%	76 – 127	05/15/2025 17:39	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	138		mg/L	5	SM2320B-2011	1	05/19/2025 04:52	JXK	A
Alkalinity, Total	138	2	mg/L	5	SM2320B-2011	1	05/19/2025 04:52	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 22:12	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/08/2025 10:55	KMS	C
Chloride	162		mg/L	2.0	EPA 300.0	2	05/07/2025 18:14	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/07/2025 18:14	J1W	A
Nitrate-N	7.1		mg/L	1.0	EPA 300.0	2	05/07/2025 18:14	J1W	A
pH	8.18	5	pH_Units		S4500HB-11	1	05/17/2025 14:09	JXK	A
Phenolics	0.005		mg/L	0.004	SW846 9066	1	05/21/2025 18:43	AKH	K
Specific Conductance	877		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	45.9		mg/L	2.0	EPA 300.0	2	05/07/2025 18:14	J1W	A



Results

Client Sample ID	FFMP035W	Collected	05/06/2025 14:55
Lab Sample ID	3413984004	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	626		mg/L	25	SM2540C-15	1	05/07/2025 15:55	RAG	A
Total Organic Carbon (TOC)	0.98		mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	1.2		NTU	0.30	SM2130B-2011	1	05/07/2025 08:35	NPF	A



Results

Client Sample ID	FFMP036W	Collected	05/06/2025 15:35
Lab Sample ID	3413984005	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	50.90		Feet		Field	1	05/06/2025 15:35	EMP	H
Dissolved Oxygen	0.06		mg/L	0.01	Field	1	05/06/2025 15:35	EMP	H
Elev Top MW Casing above MSL	478.23		Feet		Field	1	05/06/2025 15:35	EMP	H
Flow Rate	1.66		gal/min		Field	1	05/06/2025 15:35	EMP	H
Ground Water Elevation	427.33		ft/MSL		Field	1	05/06/2025 15:35	EMP	H
Oxidation-Reduction Potential	-178		mV		Field	1	05/06/2025 15:35	EMP	H
pH, Field (SM4500B)	7.98		pH_Units		Field	1	05/06/2025 15:35	EMP	H
Sample Depth	135.00		Feet		Field	1	05/06/2025 15:35	EMP	H
Specific Conductance, Field	373		umhos/cm	1	Field	1	05/06/2025 15:35	EMP	H
Temperature	15.27		Deg. C		Field	1	05/06/2025 15:35	EMP	H
Total Well Depth	142.60		Feet		Field	1	05/06/2025 15:35	EMP	H
Turbidity, Field	1		NTU	1	Field	1	05/06/2025 15:35	EMP	H
Volume in Water Column	134.80		Gallons		Field	1	05/06/2025 15:35	EMP	H
Water Level After Purge	79.24		Feet		Field	1	05/06/2025 15:35	EMP	H
Well Volumes Purged	1.35		Vol		Field	1	05/06/2025 15:35	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/15/2025 17:59	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Barium, Dissolved	0.15		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Barium, Total	0.15		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Calcium, Dissolved	52.6		mg/L	0.11	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Calcium, Total	47.9		mg/L	0.11	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Iron, Dissolved	0.67		mg/L	0.056	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Iron, Total	0.99		mg/L	0.056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Magnesium, Dissolved	5.5		mg/L	0.11	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Magnesium, Total	5.0		mg/L	0.11	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Manganese, Dissolved	0.10		mg/L	0.0056	SW846 6020A	1	05/16/2025 15:41	KXH	D2



Results

Client Sample ID	FFMP036W	Collected	05/06/2025 15:35
Lab Sample ID	3413984005	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.090		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/15/2025 10:54	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:43	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Potassium, Dissolved	0.89		mg/L	0.11	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Potassium, Total	0.77		mg/L	0.11	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Sodium, Dissolved	15.7		mg/L	0.11	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Sodium, Total	14.3		mg/L	0.11	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:16	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/16/2025 15:41	KXH	D2
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:16	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L



Results

Client Sample ID	FFMP036W	Collected	05/06/2025 15:35
Lab Sample ID	3413984005	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 17:59	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 17:59	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	113%	62 – 133	05/15/2025 17:59	
4-Bromofluorobenzene	460-00-4	96.4%	79 – 114	05/15/2025 17:59	
Dibromofluoromethane	1868-53-7	101%	78 – 116	05/15/2025 17:59	
Toluene-d8	2037-26-5	104%	76 – 127	05/15/2025 17:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	103		mg/L	5	SM2320B-2011	1	05/19/2025 05:02	JXK	A
Alkalinity, Total	103	2	mg/L	5	SM2320B-2011	1	05/19/2025 05:02	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 22:16	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/08/2025 10:55	KMS	C
Chloride	35.0		mg/L	2.0	EPA 300.0	2	05/07/2025 18:28	J1W	A
Fluoride	0.27		mg/L	0.20	EPA 300.0	2	05/07/2025 18:28	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/07/2025 18:28	J1W	A
pH	8.41	5	pH_Units		S4500HB-11	1	05/17/2025 14:24	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 17:49	AKH	K
Specific Conductance	380		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	34.1		mg/L	2.0	EPA 300.0	2	05/07/2025 18:28	J1W	A

Results

Client Sample ID	FFMP036W	Collected	05/06/2025 15:35
Lab Sample ID	3413984005	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	234		mg/L	25	SM2540C-15	1	05/07/2025 16:20	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	5.8		NTU	0.30	SM2130B-2011	1	05/07/2025 08:35	NPF	A



Results

Client Sample ID	FIELD BLANK	Collected	05/06/2025 08:30
Lab Sample ID	3413984006	Lab Receipt	05/06/2025 17:00

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/05/2025 16:32	CHS	A

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Bromoform	ND	ND,7	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Chloroethane	ND	ND,8	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Dichlorodifluoromethane	ND	ND,9	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Iodomethane	ND	ND,10	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A



Results

Client Sample ID	FIELD BLANK	Collected	05/06/2025 08:30
Lab Sample ID	3413984006	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 16:32	JTH	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 16:32	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.5%	62 – 133	05/15/2025 16:32	
4-Bromofluorobenzene	460-00-4	97%	79 – 114	05/15/2025 16:32	
Dibromofluoromethane	1868-53-7	86.3%	78 – 116	05/15/2025 16:32	
Toluene-d8	2037-26-5	91.6%	76 – 127	05/15/2025 16:32	



Results

Client Sample ID	TRIP BLANK	Collected	05/06/2025 17:00
Lab Sample ID	3413984007	Lab Receipt	05/06/2025 17:00

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/15/2025 13:40	CHS	A

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Chloroethane	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A



Results

Client Sample ID	TRIP BLANK	Collected	05/06/2025 17:00
Lab Sample ID	3413984007	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 13:40	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 13:40	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	118%	62 – 133	05/15/2025 13:40	
4-Bromofluorobenzene	460-00-4	109%	79 – 114	05/15/2025 13:40	
Dibromofluoromethane	1868-53-7	105%	78 – 116	05/15/2025 13:40	
Toluene-d8	2037-26-5	112%	76 – 127	05/15/2025 13:40	



Results

Client Sample ID	FFMP033W	Collected	05/06/2025 11:01
Lab Sample ID	3413984008	Lab Receipt	05/06/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	20.70		Feet		Field	1	05/06/2025 11:01	EMP	H
Dissolved Oxygen	1.05		mg/L	0.01	Field	1	05/06/2025 11:01	EMP	H
Elev Top MW Casing above MSL	516.52		Feet		Field	1	05/06/2025 11:01	EMP	H
Flow Rate	1.63		gal/min		Field	1	05/06/2025 11:01	EMP	H
Ground Water Elevation	495.82		ft/MSL		Field	1	05/06/2025 11:01	EMP	H
Oxidation-Reduction Potential	147		mV		Field	1	05/06/2025 11:01	EMP	H
pH, Field (SM4500B)	5.42		pH_Units		Field	1	05/06/2025 11:01	EMP	H
Sample Depth	79.00		Feet		Field	1	05/06/2025 11:01	EMP	H
Specific Conductance, Field	448		umhos/cm	1	Field	1	05/06/2025 11:01	EMP	H
Temperature	15.71		Deg. C		Field	1	05/06/2025 11:01	EMP	H
Total Well Depth	100.00		Feet		Field	1	05/06/2025 11:01	EMP	H
Turbidity, Field	3		NTU	1	Field	1	05/06/2025 11:01	EMP	H
Volume in Water Column	116.57		Gallons		Field	1	05/06/2025 11:01	EMP	H
Water Level After Purge	38.83		Feet		Field	1	05/06/2025 11:01	EMP	H
Well Volumes Purged	2.31		Vol		Field	1	05/06/2025 11:01	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/05/2025 19:31	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Barium, Dissolved	0.068		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Barium, Total	0.075		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Calcium, Dissolved	34.3		mg/L	0.11	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Calcium, Total	34.4		mg/L	0.11	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Chromium, Dissolved	0.0024		mg/L	0.0022	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Iron, Dissolved	2.9		mg/L	0.056	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Iron, Total	42.5		mg/L	0.056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Magnesium, Dissolved	13.0		mg/L	0.11	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Magnesium, Total	12.9		mg/L	0.11	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Manganese, Dissolved	0.18		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:08	KXH	D1



Results

Client Sample ID	FFMP033W	Collected	05/06/2025 11:01
Lab Sample ID	3413984008	Lab Receipt	05/06/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.24		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:49	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/09/2025 09:35	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Potassium, Dissolved	1.8		mg/L	0.11	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Potassium, Total	1.8		mg/L	0.11	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Selenium, Dissolved	ND	ND,11	mg/L	0.0056	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Sodium, Dissolved	19.6		mg/L	0.11	SW846 6020A	1	05/16/2025 11:18	KXH	D1
Sodium, Total	18.5		mg/L	0.11	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 13:18	KXH	F1
Zinc, Dissolved	0.0089		mg/L	0.0056	SW846 6020A	1	05/12/2025 12:08	KXH	D1
Zinc, Total	0.0069		mg/L	0.0056	SW846 6020A	1	05/12/2025 13:18	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Bromoform	ND	ND,7	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L



Results

Client Sample ID	FFMP033W	Collected	05/06/2025 11:01
Lab Sample ID	3413984008	Lab Receipt	05/06/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Chloroethane	ND	ND,8	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Dichlorodifluoromethane	ND	ND,9	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Iodomethane	ND	ND,10	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/15/2025 19:31	JTH	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/15/2025 19:31	JTH	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	62 – 133	05/15/2025 19:31	
4-Bromofluorobenzene	460-00-4	92.1%	79 – 114	05/15/2025 19:31	
Dibromofluoromethane	1868-53-7	87.4%	78 – 116	05/15/2025 19:31	
Toluene-d8	2037-26-5	92.9%	76 – 127	05/15/2025 19:31	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	33		mg/L	5	SM2320B-2011	1	05/19/2025 05:14	JXK	A
Alkalinity, Total	33	2	mg/L	5	SM2320B-2011	1	05/19/2025 05:14	JXK	A
Ammonia-N, Low Level	0.23		mg/L	0.10	SM 4500-NH3G	1	05/12/2025 15:36	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/09/2025 11:05	KMS	C
Chloride	84.5		mg/L	2.0	EPA 300.0	2	05/08/2025 08:25	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/08/2025 08:25	J1W	A
Nitrate-N	10.1		mg/L	1.0	EPA 300.0	2	05/08/2025 08:25	J1W	A
pH	7.79	5	pH_Units		S4500HB-11	1	05/17/2025 14:36	JXK	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/21/2025 18:26	AKH	K
Specific Conductance	457		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	11.9		mg/L	2.0	EPA 300.0	2	05/08/2025 08:25	J1W	A

Results

Client Sample ID	FFMP033W	Collected	05/06/2025 11:01
Lab Sample ID	3413984008	Lab Receipt	05/06/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	308		mg/L	25	SM2540C-15	1	05/08/2025 14:40	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/08/2025 22:55	PAG	I
Turbidity	150		NTU	0.30	SM2130B-2011	1	05/08/2025 09:44	NPF	A



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3413984001	FFMP03AW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413984002	FFMP26RW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413984003	FFMP005W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3413984004	FFMP035W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413984005	FFMP036W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413984006	FIELD BLANK	Lib Search VOC	N/A	
		SW846 8260B	N/A	
3413984007	TRIP BLANK	Lib Search VOC	N/A	
		SW846 8260B	N/A	
3413984008	FFMP033W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	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
3413984001	FFMP03AW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
		N/A	N/A	N/A		EPA 300.0	1430640
		N/A	N/A	N/A		EPA 410.4	1430858
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430654
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430687
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3413984002	FFMP26RW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
		N/A	N/A	N/A		EPA 300.0	1430640
		N/A	N/A	N/A		EPA 410.4	1430858
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430654
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430687
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1440676	05/28/2025 10:19	AKH	SW846 9066	1440678
3413984003	FFMP005W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
		N/A	N/A	N/A		EPA 300.0	1430640
		N/A	N/A	N/A		EPA 410.4	1430858
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430654
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430687
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3413984004	FFMP035W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
		N/A	N/A	N/A		EPA 300.0	1430640
		N/A	N/A	N/A		EPA 410.4	1430858
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430654
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430687
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3413984005	FFMP036W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1431093	05/09/2025 09:48	ANN	SW846 6020A	1432607
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1434946	05/15/2025 06:24	AJN	SW846 7470A	1435161
		N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
		N/A	N/A	N/A		EPA 300.0	1430640
		N/A	N/A	N/A		EPA 410.4	1430858
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430654
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430689
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993
3413984006	FIELD BLANK	N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
3413984007	TRIP BLANK	N/A	N/A	N/A		Lib Search VOC	1438796
		N/A	N/A	N/A		SW846 8260B	1435168
3413984008	FFMP033W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1431071	05/09/2025 12:18	ANN	SW846 6020A	1432629
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1431156
		SW846 3015A	1430846	05/08/2025 12:48	ANN	SW846 6020A	1432870
		SW846 7470A	1431060	05/09/2025 05:47	AJN	SW846 7470A	1431115
		SW846 7470A	1431061	05/09/2025 05:47	AJN	SW846 7470A	1431116
		N/A	N/A	N/A		Lib Search VOC	1439096
		N/A	N/A	N/A		SW846 8260B	1435169
		N/A	N/A	N/A		EPA 300.0	1430852
		N/A	N/A	N/A		EPA 410.4	1431085
		N/A	N/A	N/A		S4500HB-11	1435643
		N/A	N/A	N/A		SM 4500-NH3G	1432565
		N/A	N/A	N/A		SM2130B-2011	1430857
		N/A	N/A	N/A		SM2320B-2011	1435818
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430906
		N/A	N/A	N/A		SM5310B-14	1430956
		SW846 9066	1438990	05/21/2025 10:27	AKH	SW846 9066	1438993



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

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC
ALS

3413984

Logged By: D1G
PH: SJB



Client Name: Lancaster County Solid Waste MA		Container Type	AG	AN	CG	P	P	P	P	P	P	Temp Taken By:	Therm ID:	WO Temp (°C)	2
Address: 1299 Harrisburg Pike		Container Size	40ml	125ml	40ml	1L	500ml					Receipt Info completed by: WV Containers 0-6°C Y N NA			
Lancaster PA 17604		Preservative	HCL	H2SO4	HCL	UNP	UNP					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 NA			
												Correct Containers Provided Y N NA			
												Sample Label/COC Agree Y N NA			
												Adequate Sample Volumes Y N NA			
												VOA only: Trip Blank Y N NA			
												NJ ≤ 4 days? Y N NA			
												Courier/Tracking #			
												Client contact:			
												Date/Tech:			
												Sample(s) for Radiation testing? Y N Rad Screen (uCi)			
												Reportable SDWA Sample(s)? Y N New Source? Y N			
												SDWA State of Origin? New Source Contact:			
												PWSID #			
												PWS Contact: PWS Phone #			
												SDWA Sample Type Key: D=Distribution E=Entry Point			
												R=Raw P=Plant C=Check S=Special A=Annual Startup			
												Sample/COC Remarks			
												Contains Short Hold Testing YES NO			
												Internal Use: If less than 48 hours - notify lab upon receipt			
												State Samples Collected In			
												NY			
												NJ			
												PA			
												WV			
												FL			
												other			
												Data Deliverables			
												Standard Lvl 1			
												Standard Lvl 2			
												Standard Lvl 3			
												Standard Lvl 4			
												Exel Summary			
												Equis			
												Custom			
												EDDS:			
												Format Type			
												SW=Surface Water, WP=Wipe, WW=Wastewater			
												ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057			
												Rev 07.06.2023			



301 Filling 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.

3413984

Client Name: Lancaster County Solid Waste MA		COC #: _____		ALS Quote #: _____		of _____	
Address: 1299 Harrisburg Pike Lancaster PA 17604		Temp Taken By: _____		Therm ID: 20		WO Temp (°C) _____	
Container Type: Container		Receipt Info completed by: _____		WV Containers 0-6°C		Y N NA	
Container Size: 40ml		Cooler Custody Seals Intact		Y N NA		Deviations? NO YES	
Preservative: HCL		Sample Custody Seal Intact		Y N NA		If YES, list below	
Orthophosphate Filtered?		Received on Ice		Y N NA			
Yes		No		Hexavalent Chromium Filtered?		Yes No	
AN		CG		P		P	
AG		125ml		250ml		125ml	
HCL		H2SO4		H2SO4		HNO3	
UNP		UNP		UNP		HNO3	
ANALYSIS / METHOD REQUESTED		Sample Depth for AUX Data		FM		Alkalinity, HCO3	
pH, CL, SPC, F, SO4, NO3, TB, TDS		Enter Number of Containers Per Sample or Field Results Below.		G		GW	
TOC		O-OH		2		1	
SDWA Sample Type (see key)		Matrix (See bottom of COC)		G		GW	
Date Collected mm/dd/yy		5/6/25		1101			
Sample Description/Location (as it will appear on the lab report)		Trip Blank					
Time hh:mm		5/6/25		1101			
Date Collected mm/dd/yy		5/6/25		1101			
TAT ☒ Normal-Standard TAT is 10-12 business days.		TAT ☐ Rush-Subject to ALS approval and surcharges.					
Date Required: _____		Approved? _____					
Email? ☒ dbrown@lcswwma.org							
Project Name/ID: Form 8/FFWP033W							
Bill To: Lancaster County Solid Waste MA							
Purchase Order #: _____							
Contact: Dan Brown							
Phone#: 717-553-5864 19A W5725							
Sample(s) for Radiation testing? Y N							
Reportable SDWA Sample(s)? Y N							
SDWA State of Origin? _____							
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							
Standard Lvl 1		CLP-like		HSCA		State Samples Collected In	
Standard Lvl 2		DOD		Landfill		NY	
Standard Lvl 3		NJ RED		NJ GW		NJ	
Standard Lvl 4		NJ Full				PA	
Excel Summary		Sample Disposal		Lab		WV	
Equis		Special		Special		FL	
Custom						other	
EDDS: _____							
Formal Type							
ALS SHIPPING ADDRESS: 301 Filling Mill Road, Suite A, Middletown, PA 17057							
* Matrix - A=Air, D=Drinking Water, GW=Groundwater, O=Oil, LW=Liquid Waste, S=Solid/Sol/Sediment, SW=Surface Water, WP=Wipe, WW=Wastewater							
* G=Grab, C=Composite							



right solution.
right partner.

Middletown Sample Condition Form

Client Lancaster County Workorder 3413984
 Temp °C 2° Therm ID 649 Ice? (Y) N N/A Initials & Date DB 5/6/25
 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 <i>If not present, must contact PM/client to request name.</i>	✓			
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation	✓			
•Number of containers		✓		
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:



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

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **Lancaster County Solid Waste Authority**
Project 2ND QTR 2025 FFMP-FORM 19A
Workorder 3413750
Report ID 419080 on 5/21/2025

Certificate of Analysis

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

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

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

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

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

Recipient(s):

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

Susan Scherer

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

Susan Scherer
Project Coordinator

(ALS Digital Signature)

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3413750001	FFMP015W	Ground Water	05/05/2025 10:12	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750002	FFMP034W	Ground Water	05/05/2025 11:29	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750003	FFMP029W	Ground Water	05/05/2025 12:06	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750004	FIELD BLANK	Water	05/05/2025 12:00	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750005	FFMP04AW	Ground Water	05/05/2025 14:39	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750006	FFMP30RW	Ground Water	05/05/2025 15:08	05/05/2025 17:00	EMP	ALS Environmental-Middletown
3413750007	TRIP BLANK	Water	05/05/2025 00:00	05/05/2025 17:00	EMP	ALS Environmental-Middletown



Reference

Notes

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

Standard Acronyms/Flags

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



Project Notations

Sample Notations

Lab ID Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Bromoform.
2	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Chloroethane.
3	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Dichlorodifluoromethane.
4	The ICV recovery was outside limits (70-130%) for method SW846 8260B for the analyte Iodomethane.
5	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
6	The sample was originally run within hold time, but required further analysis that exceeded hold time.
7	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.
8	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.
9	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
10	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Selenium. The % RSD was reported as 24.8 and the control limits were 0 to 20.
11	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as -19.6 and the control limits were 80 to 120.
12	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Fluoride. The % Recovery was reported as 0 and the control limits were 80 to 120.
13	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 -1.96 and the control limits were 80 to 120.
14	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as -2.32 and the control limits were 80 to 120.



Detected Results Summary

Client Sample ID	FFMP015W	Collected	05/05/2025 10:12
Lab Sample ID	3413750001	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	63.79	Feet		Field	#
Dissolved Oxygen	7.81	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	576.40	Feet		Field	#
Flow Rate	1.22	gal/min		Field	#
Ground Water Elevation	512.61	ft/MSL		Field	#
Oxidation-Reduction Potential	269	mV		Field	#
pH, Field (SM4500B)	5.46	pH_Units		Field	#
Sample Depth	135.00	Feet		Field	#
Specific Conductance, Field	469	umhos/cm	1	Field	#
Temperature	8.29	Deg. C		Field	#
Total Well Depth	149.90	Feet		Field	#
Volume in Water Column	126.58	Gallons		Field	#
Water Level After Purge	85.25	Feet		Field	#
Well Volumes Purged	1.01	Vol		Field	#
METALS					
Barium, Dissolved	0.050	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.055	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	27.8	mg/L	0.11	SW846 6020A	#
Calcium, Total	30.0	mg/L	0.11	SW846 6020A	#
Chromium, Total	0.0073	mg/L	0.0022	SW846 6020A	#
Cobalt, Total	0.061	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	23.1	mg/L	0.11	SW846 6020A	#
Magnesium, Total	24.3	mg/L	0.11	SW846 6020A	#
Nickel, Total	0.0067	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.0	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.1	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	19.1	mg/L	0.11	SW846 6020A	#
Sodium, Total	20.0	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.017	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.018	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	35	mg/L	5	SM2320B-2011	#
Alkalinity, Total	35	mg/L	5	SM2320B-2011	#
Chloride	34.0	mg/L	2.0	EPA 300.0	#
Nitrate-N	32.8	mg/L	1.0	EPA 300.0	#
pH	5.97	pH_Units		S4500HB-11	#
Specific Conductance	493	umhos/cm	5	SM2510B-2011	#
Sulfate	28.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	364	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	1.2	mg/L	0.50	SM5310B-14	#
Turbidity	0.45	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP034W	Collected	05/05/2025 11:29
Lab Sample ID	3413750002	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	10.51	Feet		Field	#
Dissolved Oxygen	1.37	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	472.88	Feet		Field	#
Flow Rate	1.70	gal/min		Field	#
Ground Water Elevation	462.37	ft/MSL		Field	#
Oxidation-Reduction Potential	145	mV		Field	#
pH, Field (SM4500B)	5.75	pH_Units		Field	#
Sample Depth	25.85	Feet		Field	#
Specific Conductance, Field	712	umhos/cm	1	Field	#
Temperature	13.78	Deg. C		Field	#
Total Well Depth	121.00	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	162.42	Gallons		Field	#
Water Level After Purge	20.44	Feet		Field	#
Well Volumes Purged	1.53	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.048	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.052	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	47.2	mg/L	0.11	SW846 6020A	#
Calcium, Total	51.3	mg/L	0.11	SW846 6020A	#
Iron, Dissolved	0.12	mg/L	0.056	SW846 6020A	#
Iron, Total	0.80	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	18.9	mg/L	0.11	SW846 6020A	#
Magnesium, Total	20.5	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.074	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.090	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.4	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.6	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	40.3	mg/L	1.1	SW846 6020A	#
Sodium, Total	42.9	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	40	mg/L	5	SM2320B-2011	#
Alkalinity, Total	40	mg/L	5	SM2320B-2011	#
Chloride	147	mg/L	2.0	EPA 300.0	#
Nitrate-N	10.8	mg/L	1.0	EPA 300.0	#
pH	5.95	pH_Units		S4500HB-11	#
Specific Conductance	709	umhos/cm	5	SM2510B-2011	#
Sulfate	31.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	534	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.99	mg/L	0.50	SM5310B-14	#
Turbidity	7.9	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP029W	Collected	05/05/2025 12:06
Lab Sample ID	3413750003	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	41.91	Feet		Field	#
Dissolved Oxygen	5.91	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	477.30	Feet		Field	#
Flow Rate	2.09	gal/min		Field	#
Ground Water Elevation	435.39	ft/MSL		Field	#
Oxidation-Reduction Potential	260	mV		Field	#
pH, Field (SM4500B)	4.68	pH_Units		Field	#
Sample Depth	55.00	Feet		Field	#
Specific Conductance, Field	236	umhos/cm	1	Field	#
Temperature	14.60	Deg. C		Field	#
Total Well Depth	60.50	Feet		Field	#
Volume in Water Column	27.33	Gallons		Field	#
Water Level After Purge	47.75	Feet		Field	#
Well Volumes Purged	2.29	Vol		Field	#
METALS					
Barium, Dissolved	0.088	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.093	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	18.8	mg/L	0.11	SW846 6020A	#
Calcium, Total	20.3	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	12.6	mg/L	0.11	SW846 6020A	#
Magnesium, Total	13.2	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.039	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.040	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.4	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.5	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	27.0	mg/L	0.11	SW846 6020A	#
Sodium, Total	27.9	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0074	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0074	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	12	mg/L	5	SM2320B-2011	#
Alkalinity, Total	12	mg/L	5	SM2320B-2011	#
Chloride	94.3	mg/L	2.0	EPA 300.0	#
Nitrate-N	3.4	mg/L	1.0	EPA 300.0	#
pH	6.09	pH_Units		S4500HB-11	#
Specific Conductance	393	umhos/cm	5	SM2510B-2011	#
Sulfate	8.7	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	286	mg/L	25	SM2540C-15	#



Detected Results Summary

Client Sample ID	FIELD BLANK	Collected	05/05/2025 12:00
Lab Sample ID	3413750004	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Calcium, Dissolved	0.13	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	0.38	mg/L	0.11	SW846 6020A	#
Sodium, Total	0.36	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
pH	6.97	pH_Units		S4500HB-11	#
Turbidity	0.45	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP04AW	Collected	05/05/2025 14:39
Lab Sample ID	3413750005	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	36.08	Feet		Field	#
Dissolved Oxygen	0.10	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	560.72	Feet		Field	#
Flow Rate	1.64	gal/min		Field	#
Ground Water Elevation	524.64	ft/MSL		Field	#
Oxidation-Reduction Potential	64	mV		Field	#
pH, Field (SM4500B)	7.04	pH_Units		Field	#
Sample Depth	146.00	Feet		Field	#
Specific Conductance, Field	1491	umhos/cm	1	Field	#
Temperature	16.65	Deg. C		Field	#
Total Well Depth	148.50	Feet		Field	#
Volume in Water Column	165.26	Gallons		Field	#
Water Level After Purge	70.79	Feet		Field	#
Well Volumes Purged	1.04	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.17	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.19	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	141	mg/L	0.11	SW846 6020A	#
Calcium, Total	153	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	25.4	mg/L	0.11	SW846 6020A	#
Magnesium, Total	27.9	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.44	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.49	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.016	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.6	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.7	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	86.6	mg/L	1.1	SW846 6020A	#
Sodium, Total	90.4	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	187	mg/L	5	SM2320B-2011	#
Alkalinity, Total	187	mg/L	5	SM2320B-2011	#
Chloride	324	mg/L	5.0	EPA 300.0	#
pH	6.60	pH_Units		S4500HB-11	#
Specific Conductance	1500	umhos/cm	5	SM2510B-2011	#
Sulfate	55.6	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1160	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.87	mg/L	0.50	SM5310B-14	#
Turbidity	0.95	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	FFMP30RW	Collected	05/05/2025 15:08
Lab Sample ID	3413750006	Lab Receipt	05/05/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	37.82	Feet		Field	#
Dissolved Oxygen	0.13	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	562.30	Feet		Field	#
Flow Rate	1.48	gal/min		Field	#
Ground Water Elevation	524.48	ft/MSL		Field	#
Oxidation-Reduction Potential	281	mV		Field	#
pH, Field (SM4500B)	5.46	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	1430	umhos/cm	1	Field	#
Temperature	14.00	Deg. C		Field	#
Total Well Depth	94.20	Feet		Field	#
Volume in Water Column	82.88	Gallons		Field	#
Water Level After Purge	59.52	Feet		Field	#
Well Volumes Purged	1.07	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.095	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.10	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	59.6	mg/L	0.11	SW846 6020A	#
Calcium, Total	63.7	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.016	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	19.4	mg/L	0.11	SW846 6020A	#
Magnesium, Total	20.6	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	2.8	mg/L	0.0056	SW846 6020A	#
Manganese, Total	3.0	mg/L	0.0056	SW846 6020A	#
Mercury, Total	0.00069	mg/L	0.00050	SW846 7470A	#
Nickel, Total	0.029	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	9.5	mg/L	0.11	SW846 6020A	#
Potassium, Total	9.9	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	136	mg/L	11.0	SW846 6020A	#
Sodium, Total	138	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.015	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.014	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	50	mg/L	5	SM2320B-2011	#
Alkalinity, Total	50	mg/L	5	SM2320B-2011	#
Chloride	312	mg/L	5.0	EPA 300.0	#
Nitrate-N	5.1	mg/L	2.5	EPA 300.0	#
pH	6.68	pH_Units		S4500HB-11	#
Specific Conductance	1280	umhos/cm	5	SM2510B-2011	#
Sulfate	55.5	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	826	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.97	mg/L	0.50	SM5310B-14	#
Turbidity	2.0	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	TRIP BLANK	Collected	05/05/2025 00:00
Lab Sample ID	3413750007	Lab Receipt	05/05/2025 17:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<u>Flag</u>
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#



Results

Client Sample ID	FFMP015W	Collected	05/05/2025 10:12
Lab Sample ID	3413750001	Lab Receipt	05/05/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	63.79		Feet		Field	1	02/03/2025 11:04	EMP	H
Dissolved Oxygen	7.81		mg/L	0.01	Field	1	02/03/2025 11:04	EMP	H
Elev Top MW Casing above MSL	576.40		Feet		Field	1	02/03/2025 11:04	EMP	H
Flow Rate	1.22		gal/min		Field	1	02/03/2025 11:04	EMP	H
Ground Water Elevation	512.61		ft/MSL		Field	1	02/03/2025 11:04	EMP	H
Oxidation-Reduction Potential	269		mV		Field	1	02/03/2025 11:04	EMP	H
pH, Field (SM4500B)	5.46		pH_Units		Field	1	02/03/2025 11:04	EMP	H
Sample Depth	135.00		Feet		Field	1	02/03/2025 11:04	EMP	H
Specific Conductance, Field	469		umhos/cm	1	Field	1	02/03/2025 11:04	EMP	H
Temperature	8.29		Deg. C		Field	1	02/03/2025 11:04	EMP	H
Total Well Depth	149.90		Feet		Field	1	02/03/2025 11:04	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	02/03/2025 11:04	EMP	H
Volume in Water Column	126.58		Gallons		Field	1	02/03/2025 11:04	EMP	H
Water Level After Purge	85.25		Feet		Field	1	02/03/2025 11:04	EMP	H
Well Volumes Purged	1.01		Vol		Field	1	02/03/2025 11:04	EMP	H

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Barium, Dissolved	0.050		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Barium, Total	0.055		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Calcium, Dissolved	27.8	9	mg/L	0.11	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Calcium, Total	30.0		mg/L	0.11	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Chromium, Total	0.0073		mg/L	0.0022	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Cobalt, Total	0.061		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Magnesium, Dissolved	23.1	9	mg/L	0.11	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Magnesium, Total	24.3		mg/L	0.11	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:16	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 10:55	AJN	F
Nickel, Total	0.0067		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Potassium, Dissolved	2.0		mg/L	0.11	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Potassium, Total	2.1		mg/L	0.11	SW846 6020A	1	05/14/2025 12:28	KXH	F1



Results

Client Sample ID	FFMP015W	Collected	05/05/2025 10:12
Lab Sample ID	3413750001	Lab Receipt	05/05/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Sodium, Dissolved	19.1	9	mg/L	0.11	SW846 6020A	1	05/13/2025 14:40	KXH	D1
Sodium, Total	20.0		mg/L	0.11	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:28	KXH	F1
Zinc, Dissolved	0.017		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:36	KXH	D1
Zinc, Total	0.018		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:28	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L



Results

Client Sample ID	FFMP015W	Collected	05/05/2025 10:12
Lab Sample ID	3413750001	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:13	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:13	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	05/06/2025 18:13	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	05/06/2025 18:13	
Dibromofluoromethane	1868-53-7	92.2%	78 – 116	05/06/2025 18:13	
Toluene-d8	2037-26-5	96%	76 – 127	05/06/2025 18:13	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	35		mg/L	5	SM2320B-2011	1	05/17/2025 01:45	JXK	A
Alkalinity, Total	35	5	mg/L	5	SM2320B-2011	1	05/17/2025 01:45	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 12:33	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	34.0		mg/L	2.0	EPA 300.0	2	05/06/2025 11:29	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2025 11:29	J1W	A
Nitrate-N	32.8	E,6,7	mg/L	1.0	EPA 300.0	2	05/06/2025 11:29	J1W	A
pH	5.97	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:28	AKH	K
Specific Conductance	493		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	28.8		mg/L	2.0	EPA 300.0	2	05/06/2025 11:29	J1W	A
Total Dissolved Solids	364		mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	1.2		mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	0.45		NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	FFMP015W	Collected	05/05/2025 10:12
Lab Sample ID	3413750001	Lab Receipt	05/05/2025 17:00

WET CHEMISTRY (cont.)

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

Client Sample ID	FFMP034W	Collected	05/05/2025 11:29
Lab Sample ID	3413750002	Lab Receipt	05/05/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	10.51		Feet		Field	1	05/05/2025 11:28	EMP	H
Dissolved Oxygen	1.37		mg/L	0.01	Field	1	05/05/2025 11:28	EMP	H
Elev Top MW Casing above MSL	472.88		Feet		Field	1	05/05/2025 11:28	EMP	H
Flow Rate	1.70		gal/min		Field	1	05/05/2025 11:28	EMP	H
Ground Water Elevation	462.37		ft/MSL		Field	1	05/05/2025 11:28	EMP	H
Oxidation-Reduction Potential	145		mV		Field	1	05/05/2025 11:28	EMP	H
pH, Field (SM4500B)	5.75		pH_Units		Field	1	05/05/2025 11:28	EMP	H
Sample Depth	25.85		Feet		Field	1	05/05/2025 11:28	EMP	H
Specific Conductance, Field	712		umhos/cm	1	Field	1	05/05/2025 11:28	EMP	H
Temperature	13.78		Deg. C		Field	1	05/05/2025 11:28	EMP	H
Total Well Depth	121.00		Feet		Field	1	05/05/2025 11:28	EMP	H
Turbidity, Field	4		NTU	1	Field	1	05/05/2025 11:28	EMP	H
Volume in Water Column	162.42		Gallons		Field	1	05/05/2025 11:28	EMP	H
Water Level After Purge	20.44		Feet		Field	1	05/05/2025 11:28	EMP	H
Well Volumes Purged	1.53		Vol		Field	1	05/05/2025 11:28	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/06/2025 18:33	PDK	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Barium, Dissolved	0.048		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Barium, Total	0.052		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Calcium, Dissolved	47.2		mg/L	0.11	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Calcium, Total	51.3		mg/L	0.11	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Iron, Dissolved	0.12		mg/L	0.056	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Iron, Total	0.80		mg/L	0.056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Magnesium, Dissolved	18.9		mg/L	0.11	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Magnesium, Total	20.5		mg/L	0.11	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Manganese, Dissolved	0.074		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:42	KXH	D1



Results

Client Sample ID	FFMP034W	Collected	05/05/2025 11:29
Lab Sample ID	3413750002	Lab Receipt	05/05/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.090		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:13	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 10:52	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Potassium, Dissolved	2.4		mg/L	0.11	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Potassium, Total	2.6		mg/L	0.11	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Sodium, Dissolved	40.3		mg/L	1.1	SW846 6020A	10	05/13/2025 14:47	KXH	D1
Sodium, Total	42.9		mg/L	0.11	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:30	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:42	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:30	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L



Results

Client Sample ID	FFMP034W	Collected	05/05/2025 11:29
Lab Sample ID	3413750002	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:33	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:33	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.8%	62 – 133	05/06/2025 18:33	
4-Bromofluorobenzene	460-00-4	99.4%	79 – 114	05/06/2025 18:33	
Dibromofluoromethane	1868-53-7	89.6%	78 – 116	05/06/2025 18:33	
Toluene-d8	2037-26-5	95.7%	76 – 127	05/06/2025 18:33	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	40		mg/L	5	SM2320B-2011	1	05/17/2025 01:57	JXK	A
Alkalinity, Total	40	5	mg/L	5	SM2320B-2011	1	05/17/2025 01:57	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 20:39	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	147		mg/L	2.0	EPA 300.0	2	05/06/2025 11:40	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2025 11:40	J1W	A
Nitrate-N	10.8		mg/L	1.0	EPA 300.0	2	05/06/2025 11:40	J1W	A
pH	5.95	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:31	AKH	K
Specific Conductance	709		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	31.0		mg/L	2.0	EPA 300.0	2	05/06/2025 11:40	J1W	A



Results

Client Sample ID	FFMP034W	Collected	05/05/2025 11:29
Lab Sample ID	3413750002	Lab Receipt	05/05/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	534		mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	0.99		mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	7.9		NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	FFMP029W	Collected	05/05/2025 12:06
Lab Sample ID	3413750003	Lab Receipt	05/05/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	41.91		Feet		Field	1	05/05/2025 12:06	EMP	H
Dissolved Oxygen	5.91		mg/L	0.01	Field	1	05/05/2025 12:06	EMP	H
Elev Top MW Casing above MSL	477.30		Feet		Field	1	05/05/2025 12:06	EMP	H
Flow Rate	2.09		gal/min		Field	1	05/05/2025 12:06	EMP	H
Ground Water Elevation	435.39		ft/MSL		Field	1	05/05/2025 12:06	EMP	H
Oxidation-Reduction Potential	260		mV		Field	1	05/05/2025 12:06	EMP	H
pH, Field (SM4500B)	4.68		pH_Units		Field	1	05/05/2025 12:06	EMP	H
Sample Depth	55.00		Feet		Field	1	05/05/2025 12:06	EMP	H
Specific Conductance, Field	236		umhos/cm	1	Field	1	05/05/2025 12:06	EMP	H
Temperature	14.60		Deg. C		Field	1	05/05/2025 12:06	EMP	H
Total Well Depth	60.50		Feet		Field	1	05/05/2025 12:06	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/05/2025 12:06	EMP	H
Volume in Water Column	27.33		Gallons		Field	1	05/05/2025 12:06	EMP	H
Water Level After Purge	47.75		Feet		Field	1	05/05/2025 12:06	EMP	H
Well Volumes Purged	2.29		Vol		Field	1	05/05/2025 12:06	EMP	H

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Barium, Dissolved	0.088		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Barium, Total	0.093		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Calcium, Dissolved	18.8		mg/L	0.11	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Calcium, Total	20.3		mg/L	0.11	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Magnesium, Dissolved	12.6		mg/L	0.11	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Magnesium, Total	13.2		mg/L	0.11	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Manganese, Dissolved	0.039		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Manganese, Total	0.040		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:06	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 10:58	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Potassium, Dissolved	2.4		mg/L	0.11	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Potassium, Total	2.5		mg/L	0.11	SW846 6020A	1	05/14/2025 12:32	KXH	F1



Results

Client Sample ID	FFMP029W	Collected	05/05/2025 12:06
Lab Sample ID	3413750003	Lab Receipt	05/05/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Sodium, Dissolved	27.0		mg/L	0.11	SW846 6020A	1	05/13/2025 14:50	KXH	D1
Sodium, Total	27.9		mg/L	0.11	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:32	KXH	F1
Zinc, Dissolved	0.0074		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:45	KXH	D1
Zinc, Total	0.0074		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:32	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L



Results

Client Sample ID	FFMP029W	Collected	05/05/2025 12:06
Lab Sample ID	3413750003	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 18:53	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 18:53	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	05/06/2025 18:53	
4-Bromofluorobenzene	460-00-4	98%	79 – 114	05/06/2025 18:53	
Dibromofluoromethane	1868-53-7	91.3%	78 – 116	05/06/2025 18:53	
Toluene-d8	2037-26-5	97.1%	76 – 127	05/06/2025 18:53	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	12		mg/L	5	SM2320B-2011	1	05/17/2025 02:12	JXK	A
Alkalinity, Total	12	5	mg/L	5	SM2320B-2011	1	05/17/2025 02:12	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 19:45	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	94.3		mg/L	2.0	EPA 300.0	2	05/06/2025 11:52	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2025 11:52	J1W	A
Nitrate-N	3.4		mg/L	1.0	EPA 300.0	2	05/06/2025 11:52	J1W	A
pH	6.09	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:35	AKH	K
Specific Conductance	393		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	8.7		mg/L	2.0	EPA 300.0	2	05/06/2025 11:52	J1W	A
Total Dissolved Solids	286		mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	ND	ND	NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	FFMP029W	Collected	05/05/2025 12:06
Lab Sample ID	3413750003	Lab Receipt	05/05/2025 17:00

WET CHEMISTRY (cont.)

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

Client Sample ID	FIELD BLANK	Collected	05/05/2025 12:00
Lab Sample ID	3413750004	Lab Receipt	05/05/2025 17:00

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/08/2025 23:17	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Barium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Barium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Calcium, Dissolved	0.13		mg/L	0.11	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Calcium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Magnesium, Dissolved	ND	ND	mg/L	0.11	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Magnesium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:12	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 10:56	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Potassium, Dissolved	ND	ND	mg/L	0.11	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Potassium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Sodium, Dissolved	0.38		mg/L	0.11	SW846 6020A	1	05/13/2025 14:52	KXH	D1
Sodium, Total	0.36		mg/L	0.11	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:34	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:47	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:34	KXH	F1



Results

Client Sample ID	FIELD BLANK	Collected	05/05/2025 12:00
Lab Sample ID	3413750004	Lab Receipt	05/05/2025 17:00

METALS (cont.)

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

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/08/2025 23:17	BST	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 23:17	BST	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/08/2025 23:17	BST	L



Results

Client Sample ID	FIELD BLANK	Collected	05/05/2025 12:00
Lab Sample ID	3413750004	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 23:17	BST	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 23:17	BST	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	05/08/2025 23:17	
4-Bromofluorobenzene	460-00-4	109%	79 – 114	05/08/2025 23:17	
Dibromofluoromethane	1868-53-7	94.9%	78 – 116	05/08/2025 23:17	
Toluene-d8	2037-26-5	102%	76 – 127	05/08/2025 23:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	ND	ND	mg/L	5	SM2320B-2011	1	05/17/2025 02:25	JXK	A
Alkalinity, Total	ND	ND,5	mg/L	5	SM2320B-2011	1	05/17/2025 02:25	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 21:06	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	05/06/2025 12:03	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/06/2025 12:03	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/06/2025 12:03	J1W	A
pH	6.97	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:38	AKH	K
Specific Conductance	ND	ND	umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	05/06/2025 12:03	J1W	A
Total Dissolved Solids	ND	ND	mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	0.45		NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	FFMP04AW	Collected	05/05/2025 14:39
Lab Sample ID	3413750005	Lab Receipt	05/05/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	36.08		Feet		Field	1	05/05/2025 14:39	EMP	H
Dissolved Oxygen	0.10		mg/L	0.01	Field	1	05/05/2025 14:39	EMP	H
Elev Top MW Casing above MSL	560.72		Feet		Field	1	05/05/2025 14:39	EMP	H
Flow Rate	1.64		gal/min		Field	1	05/05/2025 14:39	EMP	H
Ground Water Elevation	524.64		ft/MSL		Field	1	05/05/2025 14:39	EMP	H
Oxidation-Reduction Potential	64		mV		Field	1	05/05/2025 14:39	EMP	H
pH, Field (SM4500B)	7.04		pH_Units		Field	1	05/05/2025 14:39	EMP	H
Sample Depth	146.00		Feet		Field	1	05/05/2025 14:39	EMP	H
Specific Conductance, Field	1491		umhos/cm	1	Field	1	05/05/2025 14:39	EMP	H
Temperature	16.65		Deg. C		Field	1	05/05/2025 14:39	EMP	H
Total Well Depth	148.50		Feet		Field	1	05/05/2025 14:39	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/05/2025 14:39	EMP	H
Volume in Water Column	165.26		Gallons		Field	1	05/05/2025 14:39	EMP	H
Water Level After Purge	70.79		Feet		Field	1	05/05/2025 14:39	EMP	H
Well Volumes Purged	1.04		Vol		Field	1	05/05/2025 14:39	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/09/2025 00:38	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Barium, Dissolved	0.17		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Barium, Total	0.19		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Calcium, Dissolved	141		mg/L	0.11	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Calcium, Total	153		mg/L	0.11	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Magnesium, Dissolved	25.4		mg/L	0.11	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Magnesium, Total	27.9		mg/L	0.11	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Manganese, Dissolved	0.44		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:49	KXH	D1



Results

Client Sample ID	FFMP04AW	Collected	05/05/2025 14:39
Lab Sample ID	3413750005	Lab Receipt	05/05/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.49		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:14	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 11:07	AJN	F
Nickel, Total	0.016		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Potassium, Dissolved	2.6		mg/L	0.11	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Potassium, Total	2.7		mg/L	0.11	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Sodium, Dissolved	86.6		mg/L	1.1	SW846 6020A	10	05/13/2025 14:54	KXH	D1
Sodium, Total	90.4		mg/L	0.11	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:37	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:49	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:37	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/09/2025 00:38	BST	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:38	BST	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L



Results

Client Sample ID	FFMP04AW	Collected	05/05/2025 14:39
Lab Sample ID	3413750005	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/09/2025 00:38	BST	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:38	BST	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:38	BST	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	05/09/2025 00:38	
4-Bromofluorobenzene	460-00-4	98.6%	79 – 114	05/09/2025 00:38	
Dibromofluoromethane	1868-53-7	89.6%	78 – 116	05/09/2025 00:38	
Toluene-d8	2037-26-5	94%	76 – 127	05/09/2025 00:38	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	187		mg/L	5	SM2320B-2011	1	05/17/2025 02:35	JXK	A
Alkalinity, Total	187	5	mg/L	5	SM2320B-2011	1	05/17/2025 02:35	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 20:21	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	324		mg/L	5.0	EPA 300.0	5	05/06/2025 12:15	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	05/06/2025 12:15	J1W	A
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	05/06/2025 12:15	J1W	A
pH	6.60	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:41	AKH	K
Specific Conductance	1500		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	55.6		mg/L	5.0	EPA 300.0	5	05/06/2025 12:15	J1W	A



Results

Client Sample ID	FFMP04AW	Collected	05/05/2025 14:39
Lab Sample ID	3413750005	Lab Receipt	05/05/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	1160		mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	0.87		mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	0.95		NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	FFMP30RW	Collected	05/05/2025 15:08
Lab Sample ID	3413750006	Lab Receipt	05/05/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	37.82		Feet		Field	1	05/05/2025 15:08	EMP	H
Dissolved Oxygen	0.13		mg/L	0.01	Field	1	05/05/2025 15:08	EMP	H
Elev Top MW Casing above MSL	562.30		Feet		Field	1	05/05/2025 15:08	EMP	H
Flow Rate	1.48		gal/min		Field	1	05/05/2025 15:08	EMP	H
Ground Water Elevation	524.48		ft/MSL		Field	1	05/05/2025 15:08	EMP	H
Oxidation-Reduction Potential	281		mV		Field	1	05/05/2025 15:08	EMP	H
pH, Field (SM4500B)	5.46		pH_Units		Field	1	05/05/2025 15:08	EMP	H
Sample Depth	85.00		Feet		Field	1	05/05/2025 15:08	EMP	H
Specific Conductance, Field	1430		umhos/cm	1	Field	1	05/05/2025 15:08	EMP	H
Temperature	14.00		Deg. C		Field	1	05/05/2025 15:08	EMP	H
Total Well Depth	94.20		Feet		Field	1	05/05/2025 15:08	EMP	H
Turbidity, Field	ND	ND	NTU	1	Field	1	05/05/2025 15:08	EMP	H
Volume in Water Column	82.88		Gallons		Field	1	05/05/2025 15:08	EMP	H
Water Level After Purge	59.52		Feet		Field	1	05/05/2025 15:08	EMP	H
Well Volumes Purged	1.07		Vol		Field	1	05/05/2025 15:08	EMP	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/09/2025 00:59	CHS	L

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Barium, Dissolved	0.095		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Barium, Total	0.10		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Calcium, Dissolved	59.6		mg/L	0.11	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Calcium, Total	63.7		mg/L	0.11	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Cobalt, Total	0.016		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Magnesium, Dissolved	19.4		mg/L	0.11	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Magnesium, Total	20.6		mg/L	0.11	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Manganese, Dissolved	2.8		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:51	KXH	D1



Results

Client Sample ID	FFMP30RW	Collected	05/05/2025 15:08
Lab Sample ID	3413750006	Lab Receipt	05/05/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	3.0		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/07/2025 09:15	AJN	D
Mercury, Total	0.00069		mg/L	0.00050	SW846 7470A	1	05/07/2025 11:11	AJN	F
Nickel, Total	0.029		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Potassium, Dissolved	9.5		mg/L	0.11	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Potassium, Total	9.9		mg/L	0.11	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Selenium, Dissolved	ND	ND,10	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Sodium, Dissolved	136		mg/L	11.0	SW846 6020A	100	05/13/2025 14:56	KXH	D1
Sodium, Total	138		mg/L	0.11	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/14/2025 12:39	KXH	F1
Zinc, Dissolved	0.015		mg/L	0.0056	SW846 6020A	1	05/12/2025 10:51	KXH	D1
Zinc, Total	0.014		mg/L	0.0056	SW846 6020A	1	05/14/2025 12:39	KXH	F1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/09/2025 00:59	BST	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:59	BST	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L



Results

Client Sample ID	FFMP30RW	Collected	05/05/2025 15:08
Lab Sample ID	3413750006	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/09/2025 00:59	BST	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/09/2025 00:59	BST	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/09/2025 00:59	BST	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 – 133	05/09/2025 00:59	
4-Bromofluorobenzene	460-00-4	99.6%	79 – 114	05/09/2025 00:59	
Dibromofluoromethane	1868-53-7	95.7%	78 – 116	05/09/2025 00:59	
Toluene-d8	2037-26-5	102%	76 – 127	05/09/2025 00:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	50		mg/L	5	SM2320B-2011	1	05/17/2025 03:53	JXK	A
Alkalinity, Total	50	5	mg/L	5	SM2320B-2011	1	05/17/2025 03:53	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/08/2025 17:39	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/07/2025 11:09	KMS	C
Chloride	312	11	mg/L	5.0	EPA 300.0	5	05/06/2025 12:26	J1W	A
Fluoride	ND	ND,12	mg/L	0.50	EPA 300.0	5	05/06/2025 12:26	J1W	A
Nitrate-N	5.1	13	mg/L	2.5	EPA 300.0	5	05/06/2025 12:26	J1W	A
pH	6.68	8	pH_Units		S4500HB-11	1	05/13/2025 15:10	MYM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 12:45	AKH	K
Specific Conductance	1280		umhos/cm	5	SM2510B-2011	1	05/19/2025 14:30	MYM	A
Sulfate	55.5	14	mg/L	5.0	EPA 300.0	5	05/06/2025 12:26	J1W	A



Results

Client Sample ID	FFMP30RW	Collected	05/05/2025 15:08
Lab Sample ID	3413750006	Lab Receipt	05/05/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	826		mg/L	25	SM2540C-15	1	05/06/2025 15:20	RAG	A
Total Organic Carbon (TOC)	0.97		mg/L	0.50	SM5310B-14	1	05/06/2025 22:01	PAG	I
Turbidity	2.0		NTU	0.30	SM2130B-2011	1	05/06/2025 09:10	NPF	A



Results

Client Sample ID	TRIP BLANK	Collected	05/05/2025 00:00
Lab Sample ID	3413750007	Lab Receipt	05/05/2025 17:00

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/08/2025 22:57	CHS	A

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/08/2025 22:57	BST	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 22:57	BST	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A



Results

Client Sample ID	TRIP BLANK	Collected	05/05/2025 00:00
Lab Sample ID	3413750007	Lab Receipt	05/05/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/08/2025 22:57	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/08/2025 22:57	BST	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/08/2025 22:57	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	05/08/2025 22:57	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	05/08/2025 22:57	
Dibromofluoromethane	1868-53-7	95.6%	78 – 116	05/08/2025 22:57	
Toluene-d8	2037-26-5	102%	76 – 127	05/08/2025 22:57	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3413750001	FFMP015W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413750002	FFMP034W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413750003	FFMP029W	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3413750004	FIELD BLANK	SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413750005	FFMP04AW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413750006	FFMP30RW	Field	N/A	
		SW846 6020A	SW846 3015A	
		SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		Lib Search VOC	N/A	
		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	
		SM2510B-2011	N/A	
		SM2540C-15	N/A	
		SM5310B-14	N/A	
		SW846 9066	SW846 9066	
3413750007	TRIP BLANK	Lib Search VOC	N/A	
		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
3413750001	FFMP015W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		SW846 8260B	1430522
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430885
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413750002	FFMP034W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		Lib Search VOC	1430556
		N/A	N/A	N/A		SW846 8260B	1430522
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413750003	FFMP029W	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		SW846 8260B	1430522
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430885
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3413750004	FIELD BLANK	SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		Lib Search VOC	1431055
		N/A	N/A	N/A		SW846 8260B	1431054
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413750005	FFMP04AW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		Lib Search VOC	1431055
		N/A	N/A	N/A		SW846 8260B	1431054
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430885
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413750006	FFMP30RW	N/A	N/A	N/A		Field	1433942
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430337	05/06/2025 10:42	ANN	SW846 6020A	1431019
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 7470A	1430465	05/07/2025 06:34	AJN	SW846 7470A	1430702
		SW846 7470A	1430513	05/07/2025 06:34	AJN	SW846 7470A	1430694
		N/A	N/A	N/A		Lib Search VOC	1431055
		N/A	N/A	N/A		SW846 8260B	1431054
		N/A	N/A	N/A		EPA 300.0	1430347
		N/A	N/A	N/A		EPA 410.4	1430655
		N/A	N/A	N/A		S4500HB-11	1433552
		N/A	N/A	N/A		SM 4500-NH3G	1430903
		N/A	N/A	N/A		SM2130B-2011	1430367
		N/A	N/A	N/A		SM2320B-2011	1435643
		N/A	N/A	N/A		SM2510B-2011	1435991
		N/A	N/A	N/A		SM2540C-15	1430386
		N/A	N/A	N/A		SM5310B-14	1430519
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413750007	TRIP BLANK	N/A	N/A	N/A		Lib Search VOC	1431055
		N/A	N/A	N/A		SW846 8260B	1431054



Middletown Sample Condition Form

Client Lancaster County Workorder 3413750
Temp °C 3° Therm ID 649 Ice? (Y) N N/A Initials & Date 5/5/25 PB
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 <i>If not present, must contact PM/client to request name.</i>	✓			
COC/bottle labels complete & in agreement				
• Sample location	✓			
• Date and time of sample collection	✓			
• Type(s) of preservation	✓			
• Number of containers	✓			
• Composite or grab	✓			
• Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:

