

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



Date Prepared/Revised
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP007W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 24.53 " Longitude: 76 ° 26 ' 33.28 "

Depth to Water Level: 6.42 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.50 ft Elevation of Water Level: 446.98 ft./MSL

Sampling Depth: 33 ft Volume of Water Column: 44.18 gal

Total Well Depth: 36.5 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 2.5

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/21/2025 Sample Collection Time: 9:56

Sample Collector's Name: Mr. Brian G Shade

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3411667001 Final Lab Analysis Completion Date: 5/5/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP007W

Sample Date 4/21/2025

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	ASTM D6919-09
BICARBONATE	86	SM20 2321
CALCIUM, TOTAL	18	SW846 6010C
CALCIUM, DISSOLVED	17.9	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	75.2	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	9.1	SW846 6010C
MAGNESIUM, DISSOLVED	9.4	SW846 6010C
MANGANESE, TOTAL (ug/l)	8.1	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	7.5	SW846 6010C
NITRATE-NITROGEN	9.4	EPA 300
pH-FIELD (SU)	5.27	FIELD
pH-LAB (SU)	5.51	SM4500B
POTASSIUM, TOTAL	2.1	SW846 6010C
POTASSIUM, DISSOLVED	2.1	6SW846 010C
SODIUM, TOTAL	34.5	SW846 6010C
SODIUM, DISSOLVED	34.5	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	385	FIELD
SPEC. COND., LAB (umhos/cm)	392	EPA 120.1
SULFATE	19.5	EPA 300
ALKALINITY	86	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	218	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	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP007W

Sample Date 4/21/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP007W

Sample Date 4/21/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	51	SW846 6010C
BARIUM, DISSOLVED	50	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	6.4	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	9.1	SW846 6010C
ZINC, DISSOLVED	7.1	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP007W

Sample Date 4/21/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP007W
Sample Date	4/21/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	13	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP001W ☒ Well ☐ Spring ☐ Stream ☐ Other
☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 27.43 " Longitude: 76 ° 26 ' 14.4 "

Depth to Water Level: 30.82 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 1.23 ft Elevation of Water Level: 484.31 ft./MSL

Sampling Depth: 57 ft Volume of Water Column: 52.11 gal

Total Well Depth: 66.3 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 3.1

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/21/2025 Sample Collection Time: 10:49

Sample Collector's Name: Mr. Brian G Shade

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3411667002 Final Lab Analysis Completion Date: 5/5/2025

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	ASTM D6919-09
BICARBONATE	62	SM20 2321
CALCIUM, TOTAL	14.6	SW846 6010C
CALCIUM, DISSOLVED	13.7	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	27.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	2300	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	9.5	SW846 6010C
MAGNESIUM, DISSOLVED	9.3	SW846 6010C
MANGANESE, TOTAL (ug/l)	73	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	47	SW846 6010C
NITRATE-NITROGEN	18.2	EPA 300
pH-FIELD (SU)	5.22	FIELD
pH-LAB (SU)	4.78	SM4500B
POTASSIUM, TOTAL	2	SW846 6010C
POTASSIUM, DISSOLVED	2	6SW846 010C
SODIUM, TOTAL	13.3	SW846 6010C
SODIUM, DISSOLVED	13.7	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	254	FIELD
SPEC. COND., LAB (umhos/cm)	255	EPA 120.1
SULFATE	3.6	EPA 300
ALKALINITY	62	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	175	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	60	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

T Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
Remaining quarterly samples only require total metals analysis.

I.D. No 100008

Monitoring Point No. CWMP001W

Sample Date 4/21/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP001W

Sample Date 4/21/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	81	SW846 6010C
BARIUM, DISSOLVED	73	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.7	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	6.3	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	7.5	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	29	SW846 6010C
ZINC, DISSOLVED	17	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP001W

Sample Date 4/21/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP001W
Sample Date	4/21/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	7.5	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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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BUREAU OF WASTE MANAGEMENT**



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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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP005W ☒ Well ☐ Spring ☐ Stream ☐ Other
☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 11.17 " Longitude: 76 ° 26 ' 7.08 "

Depth to Water Level: 46.65 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: -0.37 ft Elevation of Water Level: 466.78 ft./MSL

Sampling Depth: 130 ft Volume of Water Column: 137.10 gal

Total Well Depth: 140 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): 4/21/2025 Sample Collection Time: 12:55

Sample Collector's Name: Mr. Brian G Shade

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3411667003 Final Lab Analysis Completion Date: 5/5/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP005W

Sample Date 4/21/2025

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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	ASTM D6919-09
BICARBONATE	58	SM20 2321
CALCIUM, TOTAL	13.4	SW846 6010C
CALCIUM, DISSOLVED	13.1	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15	EPA 410.4
CHLORIDE	59.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	6.7	SW846 6010C
MAGNESIUM, DISSOLVED	6.7	SW846 6010C
MANGANESE, TOTAL (ug/l)	38	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	37	SW846 6010C
NITRATE-NITROGEN	6.2	EPA 300
pH-FIELD (SU)	5.44	FIELD
pH-LAB (SU)	5.48	SM4500B
POTASSIUM, TOTAL	1.8	SW846 6010C
POTASSIUM, DISSOLVED	1.9	6SW846 010C
SODIUM, TOTAL	29	SW846 6010C
SODIUM, DISSOLVED	28.3	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	294	FIELD
SPEC. COND., LAB (umhos/cm)	295	EPA 120.1
SULFATE	7.4	EPA 300
ALKALINITY	137	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	190	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

T Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
Remaining quarterly samples only require total metals analysis.

I.D. No 100008

Monitoring Point No. CWMP005W

Sample Date 4/21/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP005W

Sample Date 4/21/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	39	SW846 6010C
BARIUM, DISSOLVED	38	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	8.6	SW846 6010C
ZINC, DISSOLVED	11	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP005W

Sample Date 4/21/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP005W
Sample Date	4/21/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	5.6 ND	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP010W X Well Spring Stream Other
 Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 2.38 " Longitude: 76 ° 26 ' 57.92 "

Depth to Water Level: 8.63 ft Measured from: Land Surface X TOC

Casing Stickup: 2.10 ft Elevation of Water Level: 352.27 ft./MSL

Sampling Depth: 17 ft Volume of Water Column: 7.16 gal

Total Well Depth: 19.6 ft Sampling Method: X Pumped Bailed Grab

Well Purged: X Yes No Well Volumes Purged: 1.1

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

Spring Flow Rate: gpm

Sample Date (mm/dd/yy): 4/28/2025 Sample Collection Time: 13:07

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3412706001 Final Lab Analysis Completion Date: 5/13/2025

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

Comments:

I.D. No 100008

Monitoring Point No. CWMP010W

Sample Date 4/28/2025

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	ASTM D6919-09
BICARBONATE	227	SM20 2321
CALCIUM, TOTAL	51.5	SW846 6010C
CALCIUM, DISSOLVED	76.5	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15	EPA 410.4
CHLORIDE	246	EPA 300
FLUORIDE	0.35	EPA 300
IRON, TOTAL (ug/l)	1100	SW846 6010C
IRON, DISSOLVED (ug/l)	82	SW846 6010C
MAGNESIUM, TOTAL	50.6	SW846 6010C
MAGNESIUM, DISSOLVED	54.5	SW846 6010C
MANGANESE, TOTAL (ug/l)	55	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	300	SW846 6010C
NITRATE-NITROGEN	21.5	EPA 300
pH-FIELD (SU)	6.94	FIELD
pH-LAB (SU)	7.03	SM4500B
POTASSIUM, TOTAL	9.4	SW846 6010C
POTASSIUM, DISSOLVED	13.3	6SW846 010C
SODIUM, TOTAL	155	SW846 6010C
SODIUM, DISSOLVED	186	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	1471	FIELD
SPEC. COND., LAB (umhos/cm)	1400	EPA 120.1
SULFATE	32	EPA 300
ALKALINITY	227	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	946	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	3.6	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	3.8	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP010W

Sample Date 4/28/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP010W

Sample Date 4/28/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	56	SW846 6010C
BARIUM, DISSOLVED	86	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	170	SW846 6010C
CHROMIUM, DISSOLVED	6.9	SW846 6010C
COPPER, TOTAL	8.4	SW846 6010C
COPPER, DISSOLVED	9.9	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	42	SW846 6010C
ZINC, DISSOLVED	81	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP010W

Sample Date 4/28/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP010W
Sample Date	4/28/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	78	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP009W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 10.82 " Longitude: 76 ° 26 ' 55.8 "

Depth to Water Level: 9.15 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.70 ft Elevation of Water Level: 395.05 ft./MSL

Sampling Depth: 16 ft Volume of Water Column: 6.89 gal

Total Well Depth: 19.7 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ 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): 4/28/2025 Sample Collection Time: 14:03

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3412706002 Final Lab Analysis Completion Date: 5/13/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP009W

Sample Date 4/28/2025

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	26.6	ASTM D6919-09
BICARBONATE	55	SM20 2321
CALCIUM, TOTAL	180	SW846 6010C
CALCIUM, DISSOLVED	175	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	117	EPA 410.4
CHLORIDE	723	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	38700	SW846 6010C
IRON, DISSOLVED (ug/l)	35700	SW846 6010C
MAGNESIUM, TOTAL	90.9	SW846 6010C
MAGNESIUM, DISSOLVED	89.2	SW846 6010C
MANGANESE, TOTAL (ug/l)	14100	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	13600	SW846 6010C
NITRATE-NITROGEN	2.5 ND	EPA 300
pH-FIELD (SU)	6	FIELD
pH-LAB (SU)	6.38	SM4500B
POTASSIUM, TOTAL	32	SW846 6010C
POTASSIUM, DISSOLVED	30.6	6SW846 010C
SODIUM, TOTAL	231	SW846 6010C
SODIUM, DISSOLVED	229	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	3374	FIELD
SPEC. COND., LAB (umhos/cm)	3050	EPA 120.1
SULFATE	8.3	EPA 300
ALKALINITY	55	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	2060	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	37.8	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	37	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP009W

Sample Date 4/28/2025

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

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

ANALYTE	VALUE ^T	ANALYSIS METHOD NUMBER
BENZENE	2.7	SW846 8260B
1,2-DIBROMOETHANE (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.3	SW846 8260B
1,1-DICHLOROETHENE	1 ND	SW846 8260B
1,2-DICHLOROETHANE	1 ND	SW846 8260B
cis 1,2-DICHLOROETHENE	1.4	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 100008

Monitoring Point No. CWMP009W

Sample Date 4/28/2025

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	4.4	SW846 6010C
ARSENIC, DISSOLVED	4.2	SW846 6010C
BARIUM, TOTAL	870	SW846 6010C
BARIUM, DISSOLVED	850	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	3.4	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	5.6 ND	SW846 6010C
ZINC, DISSOLVED	5.6 ND	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP009W

Sample Date 4/28/2025

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	21.1	SW846 8260B
CHLOROETHANE	1 ND	SW846 8260B
DIBROMOCHLOROMETHANE (CHLORODIBROMOMET	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	2.2	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	10	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 (MIBK)	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	100008
Monitoring Point No.	CWMP009W
Sample Date	4/28/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	69	SW846 6010C
NICKEL	130	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP008W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 16.97 " Longitude: 76 ° 26 ' 47.58 "

Depth to Water Level: 3.22 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.80 ft Elevation of Water Level: 419.08 ft./MSL

Sampling Depth: 19 ft Volume of Water Column: 3.20 gal

Total Well Depth: 22.8 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No Well Volumes Purged: 4.3

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/28/2025 Sample Collection Time: 15:23

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3412706003 Final Lab Analysis Completion Date: 5/13/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP008W

Sample Date 4/28/2025

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	4.64	ASTM D6919-09
BICARBONATE	313	SM20 2321
CALCIUM, TOTAL	52	SW846 6010C
CALCIUM, DISSOLVED	50.3	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	23	EPA 410.4
CHLORIDE	28	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	18100	SW846 6010C
IRON, DISSOLVED (ug/l)	16800	SW846 6010C
MAGNESIUM, TOTAL	25.3	SW846 6010C
MAGNESIUM, DISSOLVED	24.9	SW846 6010C
MANGANESE, TOTAL (ug/l)	12900	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	12000	SW846 6010C
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	5.97	FIELD
pH-LAB (SU)	6.5	SM4500B
POTASSIUM, TOTAL	7	SW846 6010C
POTASSIUM, DISSOLVED	6.7	6SW846 010C
SODIUM, TOTAL	31.3	SW846 6010C
SODIUM, DISSOLVED	31.6	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	741	FIELD
SPEC. COND., LAB (umhos/cm)	663	EPA 120.1
SULFATE	7.4	EPA 300
ALKALINITY	313	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	510	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	5.9	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	3.7	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP008W

Sample Date 4/28/2025

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 (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.8	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 100008

Monitoring Point No. CWMP008W

Sample Date 4/28/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	110	SW846 6010C
BARIUM, DISSOLVED	100	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	5.6 ND	SW846 6010C
ZINC, DISSOLVED	5.6 ND	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP008W

Sample Date 4/28/2025

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	6.5	SW846 8260B
CHLOROETHANE	9.9	SW846 8260B
DIBROMOCHLOROMETHANE (CHLORODIBROMOMET	1 ND	SW846 8260B
CHLOROMETHANE	1 ND	SW846 8260B
3-CHLORO-1-PROPENE	1 ND	SW846 8260B
1,2-DICHLOROBENZENE	1	SW846 8260B
1,3-DICHLOROBENZENE	1 ND	SW846 8260B
1,4-DICHLOROBENZENE	7.8	SW846 8260B
DICHLORODIFLUOROMETHANE	2.3	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 (MIBK)	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	100008
Monitoring Point No.	CWMP008W
Sample Date	4/28/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	21	SW846 6010C
NICKEL	17	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP016W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor Township

Sampling Point Latitude: 39 ° 56 ' 55.57 " Longitude: 76 ° 26 ' 50.59 "

Depth to Water Level: 10.81 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: 2.53 ft Elevation of Water Level: 301.16 ft./MSL

Sampling Depth: 71 ft Volume of Water Column: _____ gal

Total Well Depth: 78.03 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): 4/29/2025 Sample Collection Time: 9:04

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3412940001 Final Lab Analysis Completion Date: 5/13/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP016W

Sample Date 4/29/2025

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	ASTM D6919-09
BICARBONATE	11	SM20 2321
CALCIUM, TOTAL	5.2	SW846 6010C
CALCIUM, DISSOLVED	5	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	3.2	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	130	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	1.3	SW846 6010C
MAGNESIUM, DISSOLVED	1.2	SW846 6010C
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	5.6 ND	SW846 6010C
NITRATE-NITROGEN	1.4	EPA 300
pH-FIELD (SU)	5.6	FIELD
pH-LAB (SU)	8.66	SM4500B
POTASSIUM, TOTAL	0.5	SW846 6010C
POTASSIUM, DISSOLVED	0.44	6SW846 010C
SODIUM, TOTAL	3.4	SW846 6010C
SODIUM, DISSOLVED	3.1	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	62	FIELD
SPEC. COND., LAB (umhos/cm)	61	EPA 120.1
SULFATE	10.4	EPA 300
ALKALINITY	11	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	110	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.4	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP016W

Sample Date 4/29/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP016W

Sample Date 4/29/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	9.1	SW846 6010C
BARIUM, DISSOLVED	8.7	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	5.6 ND	SW846 6010C
ZINC, DISSOLVED	5.6 ND	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP016W

Sample Date 4/29/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP016W
Sample Date	4/29/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	5.6 ND	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP018S ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor

Sampling Point Latitude: 39 ° 56 ' 55.11 " Longitude: 76 ° 26 ' 51.66 "

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

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

Sampling Depth: 0 ft Volume of Water Column: #Error gal

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

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

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/29/2025 Sample Collection Time: 9:38

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3412940002 Final Lab Analysis Completion Date: 5/13/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP018S

Sample Date 4/29/2025

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	ASTM D6919-09
BICARBONATE	67	SM20 2321
CALCIUM, TOTAL	79.6	SW846 6010C
CALCIUM, DISSOLVED	77.4	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	19	EPA 410.4
CHLORIDE	620	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	73	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	135	SW846 6010C
MAGNESIUM, DISSOLVED	145	SW846 6010C
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	5.6 ND	SW846 6010C
NITRATE-NITROGEN	24.8	EPA 300
pH-FIELD (SU)	8.44	FIELD
pH-LAB (SU)	8.3	SM4500B
POTASSIUM, TOTAL	23.4	SW846 6010C
POTASSIUM, DISSOLVED	22.9	6SW846 010C
SODIUM, TOTAL	362	SW846 6010C
SODIUM, DISSOLVED	351	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	2990	FIELD
SPEC. COND., LAB (umhos/cm)	332	EPA 120.1
SULFATE	51.3	EPA 300
ALKALINITY	67	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	1800	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	17.2	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.3	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP018S

Sample Date 4/29/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP018S

Sample Date 4/29/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	49	SW846 6010C
BARIUM, DISSOLVED	47	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	7.5	SW846 6010C
COPPER, DISSOLVED	7.3	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	40	SW846 6010C
ZINC, DISSOLVED	40	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP018S

Sample Date 4/29/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP018S
Sample Date	4/29/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	19	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP017S ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 20.41 " Longitude: 76 ° 26 ' 45.1 "

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

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

Sampling Depth: 0 ft Volume of Water Column: #Error gal

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

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

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/29/2025 Sample Collection Time: 10:11

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3412940003 Final Lab Analysis Completion Date: 5/13/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP017S

Sample Date 4/29/2025

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	ASTM D6919-09
BICARBONATE	76	SM20 2321
CALCIUM, TOTAL	84.5	SW846 6010C
CALCIUM, DISSOLVED	82.4	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	17	EPA 410.4
CHLORIDE	732	EPA 300
FLUORIDE	0.5 ND	EPA 300
IRON, TOTAL (ug/l)	260	SW846 6010C
IRON, DISSOLVED (ug/l)	150	SW846 6010C
MAGNESIUM, TOTAL	168	SW846 6010C
MAGNESIUM, DISSOLVED	174	SW846 6010C
MANGANESE, TOTAL (ug/l)	140	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	130	SW846 6010C
NITRATE-NITROGEN	31.1	EPA 300
pH-FIELD (SU)	8.28	FIELD
pH-LAB (SU)	8.25	SM4500B
POTASSIUM, TOTAL	24.7	SW846 6010C
POTASSIUM, DISSOLVED	24.4	6SW846 010C
SODIUM, TOTAL	459	SW846 6010C
SODIUM, DISSOLVED	442	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	3714	FIELD
SPEC. COND., LAB (umhos/cm)	3480	EPA 120.1
SULFATE	94.6	EPA 300
ALKALINITY	76	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	2260	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	5.1	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	2	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

T Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metals analysis.

I.D. No 100008

Monitoring Point No. CWMP017S

Sample Date 4/29/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP017S

Sample Date 4/29/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	39	SW846 6010C
BARIUM, DISSOLVED	37	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	7.8	SW846 6010C
COPPER, DISSOLVED	7.7	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	240	SW846 6010C
ZINC, DISSOLVED	230	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP017S

Sample Date 4/29/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP017S
Sample Date	4/29/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	14	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP003W X Well Spring Stream Other
 Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 20.17 " Longitude: 76 ° 26 ' 8.37 "

Depth to Water Level: 57.91 ft Measured from: Land Surface X TOC

Casing Stickup: -1.29 ft Elevation of Water Level: 466.30 ft./MSL

Sampling Depth: 100 ft Volume of Water Column: 25.10 gal

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

Well Purged: X Yes No Well Volumes Purged: 1.4

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

Spring Flow Rate: gpm

Sample Date (mm/dd/yy): 4/30/2025 Sample Collection Time: 11:03

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3413083001 Final Lab Analysis Completion Date: 5/14/2025

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

Comments:

I.D. No 100008

Monitoring Point No. CWMP003W

Sample Date 4/30/2025

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	ASTM D6919-09
BICARBONATE	18	SM20 2321
CALCIUM, TOTAL	15.9	SW846 6010C
CALCIUM, DISSOLVED	15.6	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	43.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	6.5	SW846 6010C
MAGNESIUM, DISSOLVED	6.4	SW846 6010C
MANGANESE, TOTAL (ug/l)	22	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	15	SW846 6010C
NITRATE-NITROGEN	6.4	EPA 300
pH-FIELD (SU)	5.45	FIELD
pH-LAB (SU)	6.98	SM4500B
POTASSIUM, TOTAL	1.7	SW846 6010C
POTASSIUM, DISSOLVED	1.7	6SW846 010C
SODIUM, TOTAL	17.4	SW846 6010C
SODIUM, DISSOLVED	16.7	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	253	FIELD
SPEC. COND., LAB (umhos/cm)	254	EPA 120.1
SULFATE	7.4	EPA 300
ALKALINITY	18	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	188	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	0.54	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	3.4	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP003W

Sample Date 4/30/2025

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 (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	1.5	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 100008

Monitoring Point No. CWMP003W

Sample Date 4/30/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	22	SW846 6010C
BARIUM, DISSOLVED	21	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	7.1	SW846 6010C
ZINC, DISSOLVED	6.6	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP003W

Sample Date 4/30/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP003W
Sample Date	4/30/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	10	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP004W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 17.9 " Longitude: 76 ° 26 ' 7.05 "

Depth to Water Level: 52.31 ft Measured from: ☐ Land Surface ☒ TOC

Casing Stickup: -1.37 ft Elevation of Water Level: 477.22 ft./MSL

Sampling Depth: 130 ft Volume of Water Column: 128.79 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): 4/30/2025 Sample Collection Time: 11:20

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3413083002 Final Lab Analysis Completion Date: 5/14/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP004W

Sample Date 4/30/2025

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	ASTM D6919-09
BICARBONATE	24	SM20 2321
CALCIUM, TOTAL	18.1	SW846 6010C
CALCIUM, DISSOLVED	17.5	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	57.9	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	6.3	SW846 6010C
MAGNESIUM, DISSOLVED	6.2	SW846 6010C
MANGANESE, TOTAL (ug/l)	7.2	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	6.5	SW846 6010C
NITRATE-NITROGEN	5.2	EPA 300
pH-FIELD (SU)	5.64	FIELD
pH-LAB (SU)	6.93	SM4500B
POTASSIUM, TOTAL	1.3	SW846 6010C
POTASSIUM, DISSOLVED	1.3	6SW846 010C
SODIUM, TOTAL	22.4	SW846 6010C
SODIUM, DISSOLVED	22.7	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	287	FIELD
SPEC. COND., LAB (umhos/cm)	290	EPA 120.1
SULFATE	5.4	EPA 300
ALKALINITY	24	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	222	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	0.5 ND	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	1.6	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP004W

Sample Date 4/30/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP004W

Sample Date 4/30/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	27	SW846 6010C
BARIUM, DISSOLVED	27	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	5.6 ND	SW846 6010C
ZINC, DISSOLVED	5.6 ND	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP004W

Sample Date 4/30/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP004W
Sample Date	4/30/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	6.6	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP002W X Well Spring Stream Other
 Upgradient/Upstream X Downgradient/Downstream

Location (County): Lancaster County Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 19.97 " Longitude: 76 ° 26 ' 12.3 "

Depth to Water Level: 44.43 ft Measured from: Land Surface X TOC

Casing Stickup: -1.19 ft Elevation of Water Level: 481.38 ft./MSL

Sampling Depth: 85 ft Volume of Water Column: 81.61 gal

Total Well Depth: 100 ft Sampling Method: X Pumped Bailed Grab

Well Purged: X Yes No Well Volumes Purged: 1.2

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

Spring Flow Rate: gpm

Sample Date (mm/dd/yy): 4/30/2025 Sample Collection Time: 12:53

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis:

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

Lab Accreditation Number(s):

Lab Sample Number(s): 3413083003 Final Lab Analysis Completion Date: 5/14/2025

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

Comments:

I.D. No 100008

Monitoring Point No. CWMP002W

Sample Date 4/30/2025

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	ASTM D6919-09
BICARBONATE	72	SM20 2321
CALCIUM, TOTAL	40	SW846 6010C
CALCIUM, DISSOLVED	40	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	93.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	16.4	SW846 6010C
MAGNESIUM, DISSOLVED	16	SW846 6010C
MANGANESE, TOTAL (ug/l)	700	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	680	SW846 6010C
NITRATE-NITROGEN	5.3	EPA 300
pH-FIELD (SU)	5.67	FIELD
pH-LAB (SU)	6.69	SM4500B
POTASSIUM, TOTAL	2.8	SW846 6010C
POTASSIUM, DISSOLVED	2.7	6SW846 010C
SODIUM, TOTAL	27.7	SW846 6010C
SODIUM, DISSOLVED	27.3	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	524	FIELD
SPEC. COND., LAB (umhos/cm)	528	EPA 120.1
SULFATE	19.2	EPA 300
ALKALINITY	72	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	352	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	2.4	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	0.85	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

T Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
Remaining quarterly samples only require total metals analysis.

I.D. No 100008

Monitoring Point No. CWMP002W

Sample Date 4/30/2025

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 (EDB) (ETHYLENE D	1 ND	SW846 8260B
1,1-DICHLOROETHANE	5.3	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 100008

Monitoring Point No. CWMP002W

Sample Date 4/30/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	58	SW846 6010C
BARIUM, DISSOLVED	60	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	5.6 ND	SW846 6010C
COPPER, DISSOLVED	5.6 ND	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	8.6	SW846 6010C
ZINC, DISSOLVED	8.8	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP002W

Sample Date 4/30/2025

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	11	SW846 8260B
DIBROMOCHLOROMETHANE (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP002W
Sample Date	4/30/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	12	SW846 6010C
NICKEL	20	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.2 ND	SW846 6010C

^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
05/30/2025

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: Creswell Landfill

Facility ID (as issued by DEP): 100008

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: CWMP012W ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location (County): Lancaster County

Municipality: Manor Township

Sampling Point Latitude: 39 ° 57 ' 1.48 " Longitude: 76 ° 26 ' 36.02 "

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

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

Sampling Depth: 0 ft Volume of Water Column: #Error gal

Total Well Depth: 101.9 ft Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

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

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

Spring Flow Rate: _____ gpm

Sample Date (mm/dd/yy): 4/30/2025 Sample Collection Time: 14:05

Sample Collector's Name: Evan M Poe

Sample Collector's Affiliation: ALS

Laboratory(ies) Performing Analysis: _____

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

Lab Accreditation Number(s): _____

Lab Sample Number(s): 3413083004 Final Lab Analysis Completion Date: 5/14/2025

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

Comments: _____

I.D. No 100008

Monitoring Point No. CWMP012W

Sample Date 4/30/2025

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	ASTM D6919-09
BICARBONATE	142	SM20 2321
CALCIUM, TOTAL	27.5	SW846 6010C
CALCIUM, DISSOLVED	27.4	SW846 6010C
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	2 ND	EPA 300
FLUORIDE	0.35	EPA 300
IRON, TOTAL (ug/l)	56 ND	SW846 6010C
IRON, DISSOLVED (ug/l)	56 ND	SW846 6010C
MAGNESIUM, TOTAL	1.2	SW846 6010C
MAGNESIUM, DISSOLVED	1.3	SW846 6010C
MANGANESE, TOTAL (ug/l)	5.6 ND	SW846 6010C
MANGANESE, DISSOLVED (ug/l)	5.6 ND	SW846 6010C
NITRATE-NITROGEN	1 ND	EPA 300
pH-FIELD (SU)	7.75	FIELD
pH-LAB (SU)	7.14	SM4500B
POTASSIUM, TOTAL	38.4	SW846 6010C
POTASSIUM, DISSOLVED	39.2	6SW846 010C
SODIUM, TOTAL	11.6	SW846 6010C
SODIUM, DISSOLVED	11.3	SW 846 6010C
SPEC. COND., FIELD (umhos/cm)	301	FIELD
SPEC. COND., LAB (umhos/cm)	304	EPA 120.1
SULFATE	3.8	EPA 300
ALKALINITY	142	SM20 2320B
TDS (TOTAL DISSOLVED SOLIDS)	244	SM20 2540C
TOC (TOTAL ORGANIC CARBON)	4.7	SM20 5310B
TOTAL PHENOLICS (ug/l)	4 ND	SW846 9066
TURBIDITY (N.T.U.)	16	SM 2130B

* Indicator Analyte - For comparison with detection zone analytes.

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

I.D. No 100008

Monitoring Point No. CWMP012W

Sample Date 4/30/2025

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 (EDB) (ETHYLENE D	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 100008

Monitoring Point No. CWMP012W

Sample Date 4/30/2025

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 6010C
ARSENIC, DISSOLVED	3.3 ND	SW846 6010C
BARIUM, TOTAL	9.3	SW846 6010C
BARIUM, DISSOLVED	9.6	SW846 6010C
CADMIUM, TOTAL	1.1 ND	SW846 6010C
CADMIUM, DISSOLVED	1.1 ND	SW846 6010C
CHROMIUM, TOTAL	2.2 ND	SW846 6010C
CHROMIUM, DISSOLVED	2.2 ND	SW846 6010C
COPPER, TOTAL	10	SW846 6010C
COPPER, DISSOLVED	9.2	SW846 6010C
LEAD-FLAMELESS, TOTAL	2.2 ND	SW846 6010C
LEAD, DISSOLVED	2.2 ND	SW846 6010C
MERCURY, TOTAL	0.5 ND	SW846 7470A
MERCURY, DISSOLVED	0.5 ND	SW846 7470A
SELENIUM, TOTAL	5.6 ND	SW846 6010C
SELENIUM, DISSOLVED	5.6 ND	SW846 6010C
SILVER, TOTAL	2.2 ND	SW846 6010C
SILVER, DISSOLVED	2.2 ND	SW846 6010C
ZINC, TOTAL	24	SW846 6010C
ZINC, DISSOLVED	23	SW846 6010C

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

I.D. No 100008

Monitoring Point No. CWMP012W

Sample Date 4/30/2025

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 (CHLORODIBROMOMET	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 (MIBK)	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	100008
Monitoring Point No.	CWMP012W
Sample Date	4/30/2025

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 (DBCP) (DIBROMO	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	EPA 200.8
BERYLLIUM	1.1 ND	EPA 200.8
COBALT	5.6 ND	SW846 6010C
NICKEL	5.6 ND	SW846 6010C
THALLIUM	1.1 ND	EPA 200.8
VANADIUM	2.3	SW846 6010C

^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 GWMP FORM 19A
Workorder 3411667
Report ID 417667 on 5/16/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 21, 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
3411667001	CWMP007W	Ground Water	04/21/2025 09:56	04/21/2025 15:50	BGS	Analytical Laboratory Service
3411667002	CWMP001W	Ground Water	04/21/2025 10:49	04/21/2025 15:50	BGS	Analytical Laboratory Service
3411667003	CWMP005W	Ground Water	04/21/2025 12:55	04/21/2025 15:50	BGS	Analytical Laboratory Service



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, 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 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.
2	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 79.9 and the control limits were 80 to 120.
5	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 76.1 and the control limits were 80 to 120.
6	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Fluoride. The % Recovery was reported as 126 and the control limits were 80 to 120.
7	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Fluoride. The % Recovery was reported as 124 and the control limits were 80 to 120.



Detected Results Summary

Client Sample ID	CWMP007W	Collected	04/21/2025 09:56
Lab Sample ID	3411667001	Lab Receipt	04/21/2025 15:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	6.42	Feet		Field	#
Dissolved Oxygen	5.28	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	453.40	Feet		Field	#
Flow Rate	1.68	gal/min		Field	#
Ground Water Elevation	446.98	ft/MSL		Field	#
Oxidation-Reduction Potential	297	mV		Field	#
pH, Field (SM4500B)	5.27	pH_Units		Field	#
Sample Depth	33.00	Feet		Field	#
Specific Conductance, Field	385	umhos/cm	1	Field	#
Temperature	13.09	Deg. C		Field	#
Total Well Depth	36.50	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	44.22	Gallons		Field	#
Water Level After Purge	7.17	Feet		Field	#
Well Volumes Purged	2.47	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.050	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.051	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	17.9	mg/L	0.11	SW846 6020A	#
Calcium, Total	18.0	mg/L	0.11	SW846 6020A	#
Chromium, Total	0.0064	mg/L	0.0022	SW846 6020A	#
Magnesium, Dissolved	9.4	mg/L	0.11	SW846 6020A	#
Magnesium, Total	9.1	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.0075	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.0081	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.013	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.1	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.1	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	34.5	mg/L	0.11	SW846 6020A	#
Sodium, Total	34.5	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0071	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0091	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	86	mg/L	5	SM2320B-2011	#
Alkalinity, Total	86	mg/L	5	SM2320B-2011	#
Chloride	75.2	mg/L	2.0	EPA 300.0	#
Nitrate-N	9.4	mg/L	1.0	EPA 300.0	#
pH	5.51	pH_Units		S4500HB-11	#
Specific Conductance	392	umhos/cm	5	SM2510B-2011	#
Sulfate	19.5	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	218	mg/L	25	SM2540C-15	#
Turbidity	1.2	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP001W	Collected	04/21/2025 10:49
Lab Sample ID	3411667002	Lab Receipt	04/21/2025 15:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	30.82	Feet		Field	#
Dissolved Oxygen	8.81	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	515.13	Feet		Field	#
Flow Rate	1.81	gal/min		Field	#
Ground Water Elevation	484.31	ft/MSL		Field	#
Oxidation-Reduction Potential	262	mV		Field	#
pH, Field (SM4500B)	5.22	pH_Units		Field	#
Sample Depth	57.00	Feet		Field	#
Specific Conductance, Field	254	umhos/cm	1	Field	#
Temperature	14.18	Deg. C		Field	#
Total Well Depth	66.30	Feet		Field	#
Turbidity, Field	95	NTU	1	Field	#
Volume in Water Column	52.16	Gallons		Field	#
Water Level After Purge	53.42	Feet		Field	#
Well Volumes Purged	3.12	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.073	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.081	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	13.7	mg/L	0.11	SW846 6020A	#
Calcium, Total	14.6	mg/L	0.11	SW846 6020A	#
Chromium, Total	0.0027	mg/L	0.0022	SW846 6020A	#
Copper, Total	0.0063	mg/L	0.0056	SW846 6020A	#
Iron, Total	2.3	mg/L	0.056	SW846 6020A	#
Lead, Total	0.0075	mg/L	0.0022	SW846 6020A	#
Magnesium, Dissolved	9.3	mg/L	0.11	SW846 6020A	#
Magnesium, Total	9.5	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.047	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.073	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0075	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.0	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.0	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	13.7	mg/L	0.11	SW846 6020A	#
Sodium, Total	13.3	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.017	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.029	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	62	mg/L	5	SM2320B-2011	#
Alkalinity, Total	62	mg/L	5	SM2320B-2011	#
Chloride	27.4	mg/L	2.0	EPA 300.0	#
Nitrate-N	18.2	mg/L	1.0	EPA 300.0	#
pH	4.78	pH_Units		S4500HB-11	#
Specific Conductance	255	umhos/cm	5	SM2510B-2011	#
Sulfate	3.6	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	175	mg/L	25	SM2540C-15	#
Turbidity	60	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - CWMP001W (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	CWMP005W	Collected	04/21/2025 12:55
Lab Sample ID	3411667003	Lab Receipt	04/21/2025 15:50

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	46.65	Feet		Field	#
Dissolved Oxygen	6.18	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	513.43	Feet		Field	#
Flow Rate	1.78	gal/min		Field	#
Ground Water Elevation	466.78	ft/MSL		Field	#
Oxidation-Reduction Potential	276	mV		Field	#
pH, Field (SM4500B)	5.44	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	294	umhos/cm	1	Field	#
Temperature	13.13	Deg. C		Field	#
Total Well Depth	138.92	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	135.64	Gallons		Field	#
Water Level After Purge	48.05	Feet		Field	#
Well Volumes Purged	1.05	Vol		Field	#
METALS					
Barium, Dissolved	0.038	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.039	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	13.1	mg/L	0.11	SW846 6020A	#
Calcium, Total	13.4	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	6.7	mg/L	0.11	SW846 6020A	#
Magnesium, Total	6.7	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.037	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.038	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.9	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.8	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	28.3	mg/L	0.11	SW846 6020A	#
Sodium, Total	29.0	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.011	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0086	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	58	mg/L	5	SM2320B-2011	#
Alkalinity, Total	137	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	15	mg/L	15	EPA 410.4	#
Chloride	59.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	6.2	mg/L	1.0	EPA 300.0	#
pH	5.48	pH_Units		S4500HB-11	#
Specific Conductance	295	umhos/cm	5	SM2510B-2011	#
Sulfate	7.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	190	mg/L	25	SM2540C-15	#
Turbidity	1.3	NTU	0.30	SM2130B-2011	#



Results

Client Sample ID	CWMP007W	Collected	04/21/2025 09:56
Lab Sample ID	3411667001	Lab Receipt	04/21/2025 15:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	6.42		Feet		Field	1	04/21/2025 09:56	BGS	F
Dissolved Oxygen	5.28		mg/L	0.01	Field	1	04/21/2025 09:56	BGS	F
Elev Top MW Casing above MSL	453.40		Feet		Field	1	04/21/2025 09:56	BGS	F
Flow Rate	1.68		gal/min		Field	1	04/21/2025 09:56	BGS	F
Ground Water Elevation	446.98		ft/MSL		Field	1	04/21/2025 09:56	BGS	F
Oxidation-Reduction Potential	297		mV		Field	1	04/21/2025 09:56	BGS	F
pH, Field (SM4500B)	5.27		pH_Units		Field	1	04/21/2025 09:56	BGS	F
Sample Depth	33.00		Feet		Field	1	04/21/2025 09:56	BGS	F
Specific Conductance, Field	385		umhos/cm	1	Field	1	04/21/2025 09:56	BGS	F
Temperature	13.09		Deg. C		Field	1	04/21/2025 09:56	BGS	F
Total Well Depth	36.50		Feet		Field	1	04/21/2025 09:56	BGS	F
Turbidity, Field	1		NTU	1	Field	1	04/21/2025 09:56	BGS	F
Volume in Water Column	44.22		Gallons		Field	1	04/21/2025 09:56	BGS	F
Water Level After Purge	7.17		Feet		Field	1	04/21/2025 09:56	BGS	F
Well Volumes Purged	2.47		Vol		Field	1	04/21/2025 09:56	BGS	F

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	04/29/2025 13:26	TMP	J

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Barium, Dissolved	0.050		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Barium, Total	0.051		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Calcium, Dissolved	17.9		mg/L	0.11	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Calcium, Total	18.0	1	mg/L	0.11	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Chromium, Total	0.0064		mg/L	0.0022	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Magnesium, Dissolved	9.4		mg/L	0.11	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Magnesium, Total	9.1	1	mg/L	0.11	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Manganese, Dissolved	0.0075		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:15	KXH	D1



Results

Client Sample ID	CWMP007W	Collected	04/21/2025 09:56
Lab Sample ID	3411667001	Lab Receipt	04/21/2025 15:50

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.0081		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/25/2025 09:34	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/29/2025 12:09	AJN	E
Nickel, Total	0.013		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Potassium, Dissolved	2.1		mg/L	0.11	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Potassium, Total	2.1		mg/L	0.11	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Sodium, Dissolved	34.5		mg/L	0.11	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Sodium, Total	34.5	1	mg/L	0.11	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:19	KXH	E1
Zinc, Dissolved	0.0071		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:15	KXH	D1
Zinc, Total	0.0091		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:19	KXH	E1

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	04/29/2025 13:26	TMP	J
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J



Results

Client Sample ID	CWMP007W	Collected	04/21/2025 09:56
Lab Sample ID	3411667001	Lab Receipt	04/21/2025 15:50

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	04/29/2025 13:26	TMP	J
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 13:26	TMP	J
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 13:26	TMP	J

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	04/29/2025 13:26	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	04/29/2025 13:26	
Dibromofluoromethane	1868-53-7	103%	78 – 116	04/29/2025 13:26	
Toluene-d8	2037-26-5	99.1%	76 – 127	04/29/2025 13:26	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	86		mg/L	5	SM2320B-2011	1	05/03/2025 14:05	GMM	A
Alkalinity, Total	86	2	mg/L	5	SM2320B-2011	1	05/03/2025 14:05	GMM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	04/24/2025 12:22	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	04/23/2025 12:50	KMS	C
Chloride	75.2		mg/L	2.0	EPA 300.0	2	04/22/2025 09:17	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	04/22/2025 09:17	J1W	A
Nitrate-N	9.4		mg/L	1.0	EPA 300.0	2	04/22/2025 09:17	J1W	A
pH	5.51	3	pH_Units		S4500HB-11	1	04/22/2025 09:40	GMM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 12:36	AKH	I
Specific Conductance	392		umhos/cm	5	SM2510B-2011	1	04/30/2025 14:25	GMM	A
Sulfate	19.5		mg/L	2.0	EPA 300.0	2	04/22/2025 09:17	J1W	A



Results

Client Sample ID	CWMP007W	Collected	04/21/2025 09:56
Lab Sample ID	3411667001	Lab Receipt	04/21/2025 15:50

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	218		mg/L	25	SM2540C-15	1	04/23/2025 16:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	04/23/2025 01:25	PAG	G
Turbidity	1.2		NTU	0.30	SM2130B-2011	1	04/22/2025 09:21	NPF	A



Results

Client Sample ID	CWMP001W	Collected	04/21/2025 10:49
Lab Sample ID	3411667002	Lab Receipt	04/21/2025 15:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	30.82		Feet		Field	1	04/21/2025 10:49	BGS	F
Dissolved Oxygen	8.81		mg/L	0.01	Field	1	04/21/2025 10:49	BGS	F
Elev Top MW Casing above MSL	515.13		Feet		Field	1	04/21/2025 10:49	BGS	F
Flow Rate	1.81		gal/min		Field	1	04/21/2025 10:49	BGS	F
Ground Water Elevation	484.31		ft/MSL		Field	1	04/21/2025 10:49	BGS	F
Oxidation-Reduction Potential	262		mV		Field	1	04/21/2025 10:49	BGS	F
pH, Field (SM4500B)	5.22		pH_Units		Field	1	04/21/2025 10:49	BGS	F
Sample Depth	57.00		Feet		Field	1	04/21/2025 10:49	BGS	F
Specific Conductance, Field	254		umhos/cm	1	Field	1	04/21/2025 10:49	BGS	F
Temperature	14.18		Deg. C		Field	1	04/21/2025 10:49	BGS	F
Total Well Depth	66.30		Feet		Field	1	04/21/2025 10:49	BGS	F
Turbidity, Field	95		NTU	1	Field	1	04/21/2025 10:49	BGS	F
Volume in Water Column	52.16		Gallons		Field	1	04/21/2025 10:49	BGS	F
Water Level After Purge	53.42		Feet		Field	1	04/21/2025 10:49	BGS	F
Well Volumes Purged	3.12		Vol		Field	1	04/21/2025 10:49	BGS	F

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	04/29/2025 14:00	TMP	J

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Barium, Dissolved	0.073		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Barium, Total	0.081		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Calcium, Dissolved	13.7		mg/L	0.11	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Calcium, Total	14.6		mg/L	0.11	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Chromium, Total	0.0027		mg/L	0.0022	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Copper, Total	0.0063		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Iron, Total	2.3		mg/L	0.056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Lead, Total	0.0075		mg/L	0.0022	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Magnesium, Dissolved	9.3		mg/L	0.11	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Magnesium, Total	9.5		mg/L	0.11	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Manganese, Dissolved	0.047		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:18	KXH	D1



Results

Client Sample ID	CWMP001W	Collected	04/21/2025 10:49
Lab Sample ID	3411667002	Lab Receipt	04/21/2025 15:50

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.073		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/25/2025 09:29	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/29/2025 12:35	AJN	E
Nickel, Total	0.0075		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Potassium, Dissolved	2.0		mg/L	0.11	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Potassium, Total	2.0		mg/L	0.11	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Sodium, Dissolved	13.7		mg/L	0.11	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Sodium, Total	13.3		mg/L	0.11	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:26	KXH	E1
Zinc, Dissolved	0.017		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:18	KXH	D1
Zinc, Total	0.029		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:26	KXH	E1

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	04/29/2025 14:00	TMP	J
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J



Results

Client Sample ID	CWMP001W	Collected	04/21/2025 10:49
Lab Sample ID	3411667002	Lab Receipt	04/21/2025 15:50

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	04/29/2025 14:00	TMP	J
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:00	TMP	J
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:00	TMP	J

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	04/29/2025 14:00	
4-Bromofluorobenzene	460-00-4	108%	79 – 114	04/29/2025 14:00	
Dibromofluoromethane	1868-53-7	97.5%	78 – 116	04/29/2025 14:00	
Toluene-d8	2037-26-5	95.5%	76 – 127	04/29/2025 14:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	62		mg/L	5	SM2320B-2011	1	05/03/2025 14:05	GMM	A
Alkalinity, Total	62	2	mg/L	5	SM2320B-2011	1	05/03/2025 14:05	GMM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	04/24/2025 12:43	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	04/23/2025 12:50	KMS	C
Chloride	27.4		mg/L	2.0	EPA 300.0	2	04/22/2025 09:28	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	04/22/2025 09:28	J1W	A
Nitrate-N	18.2		mg/L	1.0	EPA 300.0	2	04/22/2025 09:28	J1W	A
pH	4.78	3	pH_Units		S4500HB-11	1	04/22/2025 09:40	GMM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 12:46	AKH	I
Specific Conductance	255		umhos/cm	5	SM2510B-2011	1	04/30/2025 14:25	GMM	A
Sulfate	3.6		mg/L	2.0	EPA 300.0	2	04/22/2025 09:28	J1W	A



Results

Client Sample ID	CWMP001W	Collected	04/21/2025 10:49
Lab Sample ID	3411667002	Lab Receipt	04/21/2025 15:50

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	175		mg/L	25	SM2540C-15	1	04/23/2025 16:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	04/23/2025 01:25	PAG	G
Turbidity	60		NTU	0.30	SM2130B-2011	1	04/22/2025 09:21	NPF	A



Results

Client Sample ID	CWMP005W	Collected	04/21/2025 12:55
Lab Sample ID	3411667003	Lab Receipt	04/21/2025 15:50

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	46.65		Feet		Field	1	04/21/2025 12:55	BGS	F
Dissolved Oxygen	6.18		mg/L	0.01	Field	1	04/21/2025 12:55	BGS	F
Elev Top MW Casing above MSL	513.43		Feet		Field	1	04/21/2025 12:55	BGS	F
Flow Rate	1.78		gal/min		Field	1	04/21/2025 12:55	BGS	F
Ground Water Elevation	466.78		ft/MSL		Field	1	04/21/2025 12:55	BGS	F
Oxidation-Reduction Potential	276		mV		Field	1	04/21/2025 12:55	BGS	F
pH, Field (SM4500B)	5.44		pH_Units		Field	1	04/21/2025 12:55	BGS	F
Sample Depth	130.00		Feet		Field	1	04/21/2025 12:55	BGS	F
Specific Conductance, Field	294		umhos/cm	1	Field	1	04/21/2025 12:55	BGS	F
Temperature	13.13		Deg. C		Field	1	04/21/2025 12:55	BGS	F
Total Well Depth	138.92		Feet		Field	1	04/21/2025 12:55	BGS	F
Turbidity, Field	1		NTU	1	Field	1	04/21/2025 12:55	BGS	F
Volume in Water Column	135.64		Gallons		Field	1	04/21/2025 12:55	BGS	F
Water Level After Purge	48.05		Feet		Field	1	04/21/2025 12:55	BGS	F
Well Volumes Purged	1.05		Vol		Field	1	04/21/2025 12:55	BGS	F

METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Antimony, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Barium, Dissolved	0.038		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Barium, Total	0.039		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Calcium, Dissolved	13.1		mg/L	0.11	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Calcium, Total	13.4		mg/L	0.11	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Magnesium, Dissolved	6.7		mg/L	0.11	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Magnesium, Total	6.7		mg/L	0.11	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Manganese, Dissolved	0.037		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Manganese, Total	0.038		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/25/2025 09:32	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/29/2025 12:37	AJN	E
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Potassium, Dissolved	1.9		mg/L	0.11	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Potassium, Total	1.8		mg/L	0.11	SW846 6020A	1	05/05/2025 13:28	KXH	E1



Results

Client Sample ID	CWMP005W	Collected	04/21/2025 12:55
Lab Sample ID	3411667003	Lab Receipt	04/21/2025 15:50

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Sodium, Dissolved	28.3		mg/L	0.11	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Sodium, Total	29.0		mg/L	0.11	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/05/2025 13:28	KXH	E1
Zinc, Dissolved	0.011		mg/L	0.0056	SW846 6020A	1	05/05/2025 15:20	KXH	D1
Zinc, Total	0.0086		mg/L	0.0056	SW846 6020A	1	05/05/2025 13:28	KXH	E1

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	04/29/2025 14:20	TMP	J
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J



Results

Client Sample ID	CWMP005W	Collected	04/21/2025 12:55
Lab Sample ID	3411667003	Lab Receipt	04/21/2025 15:50

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	04/29/2025 14:20	TMP	J
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	04/29/2025 14:20	TMP	J
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	04/29/2025 14:20	TMP	J

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.7%	62 – 133	04/29/2025 14:20	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	04/29/2025 14:20	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	04/29/2025 14:20	
Toluene-d8	2037-26-5	96%	76 – 127	04/29/2025 14:20	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	58		mg/L	5	SM2320B-2011	1	05/03/2025 14:05	GMM	A
Alkalinity, Total	137	2	mg/L	5	SM2320B-2011	1	05/02/2025 11:04	GMM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	04/24/2025 12:58	AYS	C
Chemical Oxygen Demand (COD)	15		mg/L	15	EPA 410.4	1	04/23/2025 12:50	KMS	C
Chloride	59.6	4,5	mg/L	2.0	EPA 300.0	2	04/22/2025 09:39	J1W	A
Fluoride	ND	ND,6,7	mg/L	0.20	EPA 300.0	2	04/22/2025 09:39	J1W	A
Nitrate-N	6.2		mg/L	1.0	EPA 300.0	2	04/22/2025 09:39	J1W	A
pH	5.48	3	pH_Units		S4500HB-11	1	04/22/2025 09:40	GMM	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 12:39	AKH	I
Specific Conductance	295		umhos/cm	5	SM2510B-2011	1	04/30/2025 14:25	GMM	A
Sulfate	7.4		mg/L	2.0	EPA 300.0	2	04/22/2025 09:39	J1W	A
Total Dissolved Solids	190		mg/L	25	SM2540C-15	1	04/23/2025 16:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	04/23/2025 01:25	PAG	G
Turbidity	1.3		NTU	0.30	SM2130B-2011	1	04/22/2025 09:21	NPF	A



Results

Client Sample ID	CWMP005W	Collected	04/21/2025 12:55
Lab Sample ID	3411667003	Lab Receipt	04/21/2025 15:50

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
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Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3411667001	CWMP007W	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	
3411667002	CWMP001W	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	
3411667003	CWMP005W	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	
		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
3411667001	CWMP007W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1425184	04/23/2025 05:42	ANN	SW846 6020A	1425373
		SW846 3015A	1424993	04/23/2025 03:28	ANN	SW846 6020A	1425288
		SW846 7470A	1426386	04/29/2025 06:20	AJN	SW846 7470A	1427314
		SW846 7470A	1425565	04/25/2025 05:26	AJN	SW846 7470A	1425702
		N/A	N/A	N/A		Lib Search VOC	1427473
		N/A	N/A	N/A		SW846 8260B	1427429
		N/A	N/A	N/A		EPA 300.0	1424999
		N/A	N/A	N/A		EPA 410.4	1425212
		N/A	N/A	N/A		S4500HB-11	1425032
		N/A	N/A	N/A		SM 4500-NH3G	1425478
		N/A	N/A	N/A		SM2130B-2011	1425006
		N/A	N/A	N/A		SM2320B-2011	1428349
		N/A	N/A	N/A		SM2510B-2011	1427579
		N/A	N/A	N/A		SM2540C-15	1425251
		N/A	N/A	N/A		SM5310B-14	1425094
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622
3411667002	CWMP001W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1425184	04/23/2025 05:42	ANN	SW846 6020A	1425373
		SW846 3015A	1424993	04/23/2025 03:28	ANN	SW846 6020A	1425288
		SW846 7470A	1426386	04/29/2025 06:20	AJN	SW846 7470A	1427314
		SW846 7470A	1425565	04/25/2025 05:26	AJN	SW846 7470A	1425702
		N/A	N/A	N/A		Lib Search VOC	1427473
		N/A	N/A	N/A		SW846 8260B	1427429
		N/A	N/A	N/A		EPA 300.0	1424999
		N/A	N/A	N/A		EPA 410.4	1425212
		N/A	N/A	N/A		S4500HB-11	1425032
		N/A	N/A	N/A		SM 4500-NH3G	1425478
		N/A	N/A	N/A		SM2130B-2011	1425006
		N/A	N/A	N/A		SM2320B-2011	1428349
		N/A	N/A	N/A		SM2510B-2011	1427579
		N/A	N/A	N/A		SM2540C-15	1425251
		N/A	N/A	N/A		SM5310B-14	1425094
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622
3411667003	CWMP005W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1425184	04/23/2025 05:42	ANN	SW846 6020A	1425373
		SW846 3015A	1424993	04/23/2025 03:28	ANN	SW846 6020A	1425288
		SW846 7470A	1426386	04/29/2025 06:20	AJN	SW846 7470A	1427314
		SW846 7470A	1425565	04/25/2025 05:26	AJN	SW846 7470A	1425702
		N/A	N/A	N/A		SW846 8260B	1427429
		N/A	N/A	N/A		EPA 300.0	1424999
		N/A	N/A	N/A		EPA 410.4	1425212
		N/A	N/A	N/A		S4500HB-11	1425032
		N/A	N/A	N/A		SM 4500-NH3G	1425478
		N/A	N/A	N/A		SM2130B-2011	1425006
		N/A	N/A	N/A		SM2320B-2011	1428019
		N/A	N/A	N/A		SM2320B-2011	1428349
		N/A	N/A	N/A		SM2510B-2011	1427579
		N/A	N/A	N/A		SM2540C-15	1425251
		N/A	N/A	N/A		SM5310B-14	1425094
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622



REQUEST FOR ANALYSIS

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

3411667

Logged By: SLS
PM: SJB

[illegible]



Middletown Sample Condition Form

Client lancaſter co. ſolid waſte Workorder 3411667
Temp °C 3 Therm ID 569 Ice? (Y) N N/A Initials & Date 4/21/25
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		✓		UC
•Composite or grab	✓			
•Matrix				
Proper containers, preservation, and volume per method	↓			
Received within hold time				
Containers intact	↓			
Trip blanks present (EPA 504, EPA 524)			✓	
Field blanks present (Hg 1631, PFAS)			↓	
NJ ≤ 4 Days				
CR6 Samples Filtered				
OP Samples Filtered				
WV Containers 0-6°C				
SDWA compliance reporting			↓	

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:



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

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

Analytical Results Report For **Lancaster County Solid Waste Authority**
Project 2nd QTR 2025 GWMP FORM 19A
Workorder 3413083
Report ID 418623 on 5/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 30, 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
3413083001	CWMP003W	Ground Water	04/30/2025 11:03	04/30/2025 15:30	EMP	ALS Environmental-Middletown
3413083002	CWMP004W	Ground Water	04/30/2025 11:20	04/30/2025 15:30	EMP	ALS Environmental-Middletown
3413083003	CWMP002W	Ground Water	04/30/2025 12:53	04/30/2025 15:30	EMP	ALS Environmental-Middletown
3413083004	CWMP012W	Ground Water	04/30/2025 14:05	04/30/2025 15:30	EMP	ALS Environmental-Middletown
3413083005	Trip Blank	Water	04/30/2025 00:00	04/30/2025 15:30	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 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 DUP was outside the control limits. The DUP was reported as 45.2 and the control limits are 0 to 20



Detected Results Summary

Client Sample ID	CWMP003W	Collected	04/30/2025 11:03
Lab Sample ID	3413083001	Lab Receipt	04/30/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	57.91	Feet		Field	#
Dissolved Oxygen	8.00	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	524.21	Feet		Field	#
Flow Rate	2.05	gal/min		Field	#
Ground Water Elevation	466.30	ft/MSL		Field	#
Oxidation-Reduction Potential	330	mV		Field	#
pH, Field (SM4500B)	5.45	pH_Units		Field	#
Sample Depth	100.00	Feet		Field	#
Specific Conductance, Field	253	umhos/cm	1	Field	#
Temperature	14.15	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Turbidity, Field	4	NTU	1	Field	#
Volume in Water Column	120.67	Gallons		Field	#
Water Level After Purge	75.52	Feet		Field	#
Well Volumes Purged	1.44	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.021	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.022	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	15.6	mg/L	0.11	SW846 6020A	#
Calcium, Total	15.9	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	6.4	mg/L	0.11	SW846 6020A	#
Magnesium, Total	6.5	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.015	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.022	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.010	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.7	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.7	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	16.7	mg/L	0.11	SW846 6020A	#
Sodium, Total	17.4	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0066	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0071	mg/L	0.0056	SW846 6020A	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.5	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	18	mg/L	5	SM2320B-2011	#
Alkalinity, Total	18	mg/L	5	SM2320B-2011	#
Chloride	43.6	mg/L	2.0	EPA 300.0	#
Nitrate-N	6.4	mg/L	1.0	EPA 300.0	#
pH	6.98	pH_Units		S4500HB-11	#
Specific Conductance	254	umhos/cm	5	SM2510B-2011	#
Sulfate	7.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	188	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	0.54	mg/L	0.50	SM5310B-14	#
Turbidity	3.4	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Sample - CWMP003W (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	CWMP004W	Collected	04/30/2025 11:20
Lab Sample ID	3413083002	Lab Receipt	04/30/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	52.31	Feet		Field	#
Dissolved Oxygen	7.68	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	529.53	Feet		Field	#
Flow Rate	1.74	gal/min		Field	#
Ground Water Elevation	477.22	ft/MSL		Field	#
Oxidation-Reduction Potential	271	mV		Field	#
pH, Field (SM4500B)	5.64	pH_Units		Field	#
Sample Depth	130.00	Feet		Field	#
Specific Conductance, Field	287	umhos/cm	1	Field	#
Temperature	14.64	Deg. C		Field	#
Total Well Depth	140.00	Feet		Field	#
Volume in Water Column	128.90	Gallons		Field	#
Water Level After Purge	57.18	Feet		Field	#
Well Volumes Purged	1.42	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.027	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.027	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	17.5	mg/L	0.11	SW846 6020A	#
Calcium, Total	18.1	mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved	6.2	mg/L	0.11	SW846 6020A	#
Magnesium, Total	6.3	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.0065	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.0072	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.0066	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	1.3	mg/L	0.11	SW846 6020A	#
Potassium, Total	1.3	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	22.7	mg/L	0.11	SW846 6020A	#
Sodium, Total	22.4	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	24	mg/L	5	SM2320B-2011	#
Alkalinity, Total	24	mg/L	5	SM2320B-2011	#
Chloride	57.9	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.2	mg/L	1.0	EPA 300.0	#
pH	6.93	pH_Units		S4500HB-11	#
Specific Conductance	290	umhos/cm	5	SM2510B-2011	#
Sulfate	5.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	222	mg/L	25	SM2540C-15	#
Turbidity	1.6	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP002W	Collected	04/30/2025 12:53
Lab Sample ID	3413083003	Lab Receipt	04/30/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	44.43	Feet		Field	#
Dissolved Oxygen	1.84	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	525.81	Feet		Field	#
Flow Rate	1.66	gal/min		Field	#
Ground Water Elevation	481.38	ft/MSL		Field	#
Oxidation-Reduction Potential	180	mV		Field	#
pH, Field (SM4500B)	5.67	pH_Units		Field	#
Sample Depth	85.00	Feet		Field	#
Specific Conductance, Field	524	umhos/cm	1	Field	#
Temperature	14.04	Deg. C		Field	#
Total Well Depth	100.00	Feet		Field	#
Volume in Water Column	81.69	Gallons		Field	#
Water Level After Purge	46.12	Feet		Field	#
Well Volumes Purged	1.22	Vol		Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.060	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.058	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	40.0	mg/L	0.11	SW846 6020A	#
Calcium, Total	40.0	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.012	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	16.0	mg/L	0.11	SW846 6020A	#
Magnesium, Total	16.4	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.68	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.70	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.020	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	2.7	mg/L	0.11	SW846 6020A	#
Potassium, Total	2.8	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	27.3	mg/L	0.11	SW846 6020A	#
Sodium, Total	27.7	mg/L	0.11	SW846 6020A	#
Zinc, Dissolved	0.0088	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.0086	mg/L	0.0056	SW846 6020A	#
VOLATILE ORGANICS					
1,1-Dichloroethane	5.3	ug/L	1.0	SW846 8260B	#
Chloroethane	11.0	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	72	mg/L	5	SM2320B-2011	#
Alkalinity, Total	72	mg/L	5	SM2320B-2011	#
Chloride	93.4	mg/L	2.0	EPA 300.0	#
Nitrate-N	5.3	mg/L	1.0	EPA 300.0	#
pH	6.69	pH_Units		S4500HB-11	#
Specific Conductance	528	umhos/cm	5	SM2510B-2011	#
Sulfate	19.2	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	352	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	2.4	mg/L	0.50	SM5310B-14	#



Detected Results Summary

Sample - CWMP002W (cont.)					
Compound	Result	Units	RDL	Method	Flag
WET CHEMISTRY (cont.)					
Turbidity	0.85	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP012W	Collected	04/30/2025 14:05
Lab Sample ID	3413083004	Lab Receipt	04/30/2025 15:30

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	9.21	mg/L	0.01	Field	#
Oxidation-Reduction Potential	213	mV		Field	#
pH, Field (SM4500B)	7.75	pH_Units		Field	#
Specific Conductance, Field	301	umhos/cm	1	Field	#
Temperature	15.99	Deg. C		Field	#
Turbidity, Field	30	NTU	1	Field	#
METALS					
Barium, Dissolved	0.0096	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.0093	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	27.4	mg/L	0.11	SW846 6020A	#
Calcium, Total	27.5	mg/L	0.11	SW846 6020A	#
Copper, Dissolved	0.0092	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.010	mg/L	0.0056	SW846 6020A	#
Magnesium, Dissolved	1.3	mg/L	0.11	SW846 6020A	#
Magnesium, Total	1.2	mg/L	0.11	SW846 6020A	#
Potassium, Dissolved	39.2	mg/L	0.11	SW846 6020A	#
Potassium, Total	38.4	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	11.3	mg/L	0.11	SW846 6020A	#
Sodium, Total	11.6	mg/L	0.11	SW846 6020A	#
Vanadium, Total	0.0023	mg/L	0.0022	SW846 6020A	#
Zinc, Dissolved	0.023	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.024	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	142	mg/L	5	SM2320B-2011	#
Alkalinity, Total	142	mg/L	5	SM2320B-2011	#
Fluoride	0.35	mg/L	0.20	EPA 300.0	#
pH	7.14	pH_Units		S4500HB-11	#
Specific Conductance	304	umhos/cm	5	SM2510B-2011	#
Sulfate	3.8	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	244	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	4.7	mg/L	0.50	SM5310B-14	#
Turbidity	16	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	Trip Blank	Collected	04/30/2025 00:00
Lab Sample ID	3413083005	Lab Receipt	04/30/2025 15:30

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
VOLATILE ORGANICS					
Chloroform	9.2	ug/L	1.0	SW846 8260B	#



Results

Client Sample ID	CWMP003W	Collected	04/30/2025 11:03
Lab Sample ID	3413083001	Lab Receipt	04/30/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	57.91		Feet		Field	1	04/30/2025 11:03	BGS	H
Dissolved Oxygen	8.00		mg/L	0.01	Field	1	04/30/2025 11:03	BGS	H
Elev Top MW Casing above MSL	524.21		Feet		Field	1	04/30/2025 11:03	BGS	H
Flow Rate	2.05		gal/min		Field	1	04/30/2025 11:03	BGS	H
Ground Water Elevation	466.30		ft/MSL		Field	1	04/30/2025 11:03	BGS	H
Oxidation-Reduction Potential	330		mV		Field	1	04/30/2025 11:03	BGS	H
pH, Field (SM4500B)	5.45		pH_Units		Field	1	04/30/2025 11:03	BGS	H
Sample Depth	100.00		Feet		Field	1	04/30/2025 11:03	BGS	H
Specific Conductance, Field	253		umhos/cm	1	Field	1	04/30/2025 11:03	BGS	H
Temperature	14.15		Deg. C		Field	1	04/30/2025 11:03	BGS	H
Total Well Depth	140.00		Feet		Field	1	04/30/2025 11:03	BGS	H
Turbidity, Field	4		NTU	1	Field	1	04/30/2025 11:03	BGS	H
Volume in Water Column	120.67		Gallons		Field	1	04/30/2025 11:03	BGS	H
Water Level After Purge	75.52		Feet		Field	1	04/30/2025 11:03	BGS	H
Well Volumes Purged	1.44		Vol		Field	1	04/30/2025 11:03	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	05/06/2025 14:14	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	05/08/2025 11:02	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Barium, Dissolved	0.021		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Barium, Total	0.022		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Calcium, Dissolved	15.6		mg/L	0.11	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Calcium, Total	15.9		mg/L	0.11	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Magnesium, Dissolved	6.4		mg/L	0.11	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Magnesium, Total	6.5		mg/L	0.11	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Manganese, Dissolved	0.015		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:38	KXH	D1



Results

Client Sample ID	CWMP003W	Collected	04/30/2025 11:03
Lab Sample ID	3413083001	Lab Receipt	04/30/2025 15:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.022		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:10	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:44	AJN	F
Nickel, Total	0.010		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Potassium, Dissolved	1.7		mg/L	0.11	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Potassium, Total	1.7		mg/L	0.11	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Sodium, Dissolved	16.7		mg/L	0.11	SW846 6020A	1	05/14/2025 09:52	KXH	D1
Sodium, Total	17.4		mg/L	0.11	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:02	KXH	F1
Zinc, Dissolved	0.0066		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:38	KXH	D1
Zinc, Total	0.0071		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:02	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 14:14	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,1-Dichloroethane	1.5		ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L



Results

Client Sample ID	CWMP003W	Collected	04/30/2025 11:03
Lab Sample ID	3413083001	Lab Receipt	04/30/2025 15:30

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	05/06/2025 14:14	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:14	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:14	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93%	62 – 133	05/06/2025 14:14	
4-Bromofluorobenzene	460-00-4	93.6%	79 – 114	05/06/2025 14:14	
Dibromofluoromethane	1868-53-7	87.3%	78 – 116	05/06/2025 14:14	
Toluene-d8	2037-26-5	92.2%	76 – 127	05/06/2025 14:14	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	18		mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Alkalinity, Total	18	5	mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 17:59	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	43.6		mg/L	2.0	EPA 300.0	2	05/01/2025 09:30	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/01/2025 09:30	J1W	A
Nitrate-N	6.4		mg/L	1.0	EPA 300.0	2	05/01/2025 09:30	J1W	A
pH	6.98	6	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 14:45	AKH	K
Specific Conductance	254		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	7.4		mg/L	2.0	EPA 300.0	2	05/01/2025 09:30	J1W	A



Results

Client Sample ID	CWMP003W	Collected	04/30/2025 11:03
Lab Sample ID	3413083001	Lab Receipt	04/30/2025 15:30

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	188		mg/L	25	SM2540C-15	1	05/01/2025 15:30	RAG	A
Total Organic Carbon (TOC)	0.54		mg/L	0.50	SM5310B-14	1	05/01/2025 18:49	PAG	I
Turbidity	3.4		NTU	0.30	SM2130B-2011	1	05/01/2025 09:02	NPF	A



Results

Client Sample ID	CWMP004W	Collected	04/30/2025 11:20
Lab Sample ID	3413083002	Lab Receipt	04/30/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	52.31		Feet		Field	1	04/30/2025 11:20	BGS	H
Dissolved Oxygen	7.68		mg/L	0.01	Field	1	04/30/2025 11:20	BGS	H
Elev Top MW Casing above MSL	529.53		Feet		Field	1	04/30/2025 11:20	BGS	H
Flow Rate	1.74		gal/min		Field	1	04/30/2025 11:20	BGS	H
Ground Water Elevation	477.22		ft/MSL		Field	1	04/30/2025 11:20	BGS	H
Oxidation-Reduction Potential	271		mV		Field	1	04/30/2025 11:20	BGS	H
pH, Field (SM4500B)	5.64		pH_Units		Field	1	04/30/2025 11:20	BGS	H
Sample Depth	130.00		Feet		Field	1	04/30/2025 11:20	BGS	H
Specific Conductance, Field	287		umhos/cm	1	Field	1	04/30/2025 11:20	BGS	H
Temperature	14.64		Deg. C		Field	1	04/30/2025 11:20	BGS	H
Total Well Depth	140.00		Feet		Field	1	04/30/2025 11:20	BGS	H
Turbidity, Field	ND	ND	NTU	1	Field	1	04/30/2025 11:20	BGS	H
Volume in Water Column	128.90		Gallons		Field	1	04/30/2025 11:20	BGS	H
Water Level After Purge	57.18		Feet		Field	1	04/30/2025 11:20	BGS	H
Well Volumes Purged	1.42		Vol		Field	1	04/30/2025 11:20	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	05/06/2025 14:54	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	05/08/2025 11:04	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Barium, Dissolved	0.027		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Barium, Total	0.027		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Calcium, Dissolved	17.5		mg/L	0.11	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Calcium, Total	18.1		mg/L	0.11	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Magnesium, Dissolved	6.2		mg/L	0.11	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Magnesium, Total	6.3		mg/L	0.11	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Manganese, Dissolved	0.0065		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:41	KXH	D1



Results

Client Sample ID	CWMP004W	Collected	04/30/2025 11:20
Lab Sample ID	3413083002	Lab Receipt	04/30/2025 15:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.0072		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:12	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:46	AJN	F
Nickel, Total	0.0066		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Potassium, Dissolved	1.3		mg/L	0.11	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Potassium, Total	1.3		mg/L	0.11	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Sodium, Dissolved	22.7		mg/L	0.11	SW846 6020A	1	05/14/2025 09:54	KXH	D1
Sodium, Total	22.4		mg/L	0.11	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:04	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:41	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:04	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 14:54	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L



Results

Client Sample ID	CWMP004W	Collected	04/30/2025 11:20
Lab Sample ID	3413083002	Lab Receipt	04/30/2025 15:30

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	05/06/2025 14:54	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 14:54	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 14:54	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.2%	62 – 133	05/06/2025 14:54	
4-Bromofluorobenzene	460-00-4	98.5%	79 – 114	05/06/2025 14:54	
Dibromofluoromethane	1868-53-7	90.8%	78 – 116	05/06/2025 14:54	
Toluene-d8	2037-26-5	96%	76 – 127	05/06/2025 14:54	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	24		mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Alkalinity, Total	24	5,7	mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 18:35	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	57.9		mg/L	2.0	EPA 300.0	2	05/01/2025 09:41	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/01/2025 09:41	J1W	A
Nitrate-N	5.2		mg/L	1.0	EPA 300.0	2	05/01/2025 09:41	J1W	A
pH	6.93	6	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 14:42	AKH	K
Specific Conductance	290		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	5.4		mg/L	2.0	EPA 300.0	2	05/01/2025 09:41	J1W	A



Results

Client Sample ID	CWMP004W	Collected	04/30/2025 11:20
Lab Sample ID	3413083002	Lab Receipt	04/30/2025 15:30

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	222		mg/L	25	SM2540C-15	1	05/01/2025 15:30	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	05/01/2025 18:49	PAG	I
Turbidity	1.6		NTU	0.30	SM2130B-2011	1	05/01/2025 09:02	NPF	A



Results

Client Sample ID	CWMP002W	Collected	04/30/2025 12:53
Lab Sample ID	3413083003	Lab Receipt	04/30/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	44.43		Feet		Field	1	04/30/2025 12:53	BGS	H
Dissolved Oxygen	1.84		mg/L	0.01	Field	1	04/30/2025 12:53	BGS	H
Elev Top MW Casing above MSL	525.81		Feet		Field	1	04/30/2025 12:53	BGS	H
Flow Rate	1.66		gal/min		Field	1	04/30/2025 12:53	BGS	H
Ground Water Elevation	481.38		ft/MSL		Field	1	04/30/2025 12:53	BGS	H
Oxidation-Reduction Potential	180		mV		Field	1	04/30/2025 12:53	BGS	H
pH, Field (SM4500B)	5.67		pH_Units		Field	1	04/30/2025 12:53	BGS	H
Sample Depth	85.00		Feet		Field	1	04/30/2025 12:53	BGS	H
Specific Conductance, Field	524		umhos/cm	1	Field	1	04/30/2025 12:53	BGS	H
Temperature	14.04		Deg. C		Field	1	04/30/2025 12:53	BGS	H
Total Well Depth	100.00		Feet		Field	1	04/30/2025 12:53	BGS	H
Turbidity, Field	ND	ND	NTU	1	Field	1	04/30/2025 12:53	BGS	H
Volume in Water Column	81.69		Gallons		Field	1	04/30/2025 12:53	BGS	H
Water Level After Purge	46.12		Feet		Field	1	04/30/2025 12:53	BGS	H
Well Volumes Purged	1.22		Vol		Field	1	04/30/2025 12:53	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	05/06/2025 15:14	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	05/08/2025 11:07	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Barium, Dissolved	0.060		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Barium, Total	0.058		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Calcium, Dissolved	40.0		mg/L	0.11	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Calcium, Total	40.0		mg/L	0.11	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Cobalt, Total	0.012		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Magnesium, Dissolved	16.0		mg/L	0.11	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Magnesium, Total	16.4		mg/L	0.11	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Manganese, Dissolved	0.68		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:43	KXH	D1



Results

Client Sample ID	CWMP002W	Collected	04/30/2025 12:53
Lab Sample ID	3413083003	Lab Receipt	04/30/2025 15:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Manganese, Total	0.70		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:11	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:52	AJN	F
Nickel, Total	0.020		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Potassium, Dissolved	2.7		mg/L	0.11	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Potassium, Total	2.8		mg/L	0.11	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Sodium, Dissolved	27.3		mg/L	0.11	SW846 6020A	1	05/14/2025 10:08	KXH	D1
Sodium, Total	27.7		mg/L	0.11	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:07	KXH	F1
Zinc, Dissolved	0.0088		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:43	KXH	D1
Zinc, Total	0.0086		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:07	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 15:14	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,1-Dichloroethane	5.3		ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L



Results

Client Sample ID	CWMP002W	Collected	04/30/2025 12:53
Lab Sample ID	3413083003	Lab Receipt	04/30/2025 15:30

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	05/06/2025 15:14	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Chloroethane	11.0	2	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:14	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:14	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97%	62 – 133	05/06/2025 15:14	
4-Bromofluorobenzene	460-00-4	95.5%	79 – 114	05/06/2025 15:14	
Dibromofluoromethane	1868-53-7	90.8%	78 – 116	05/06/2025 15:14	
Toluene-d8	2037-26-5	95.1%	76 – 127	05/06/2025 15:14	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	72		mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Alkalinity, Total	72	5	mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 14:23	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	93.4		mg/L	2.0	EPA 300.0	2	05/01/2025 09:53	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	05/01/2025 09:53	J1W	A
Nitrate-N	5.3		mg/L	1.0	EPA 300.0	2	05/01/2025 09:53	J1W	A
pH	6.69	6	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 14:48	AKH	K
Specific Conductance	528		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	19.2		mg/L	2.0	EPA 300.0	2	05/01/2025 09:53	J1W	A



Results

Client Sample ID	CWMP002W	Collected	04/30/2025 12:53
Lab Sample ID	3413083003	Lab Receipt	04/30/2025 15:30

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	352		mg/L	25	SM2540C-15	1	05/01/2025 15:30	RAG	A
Total Organic Carbon (TOC)	2.4		mg/L	0.50	SM5310B-14	1	05/01/2025 18:49	PAG	I
Turbidity	0.85		NTU	0.30	SM2130B-2011	1	05/01/2025 09:02	NPF	A



Results

Client Sample ID	CWMP012W	Collected	04/30/2025 14:05
Lab Sample ID	3413083004	Lab Receipt	04/30/2025 15:30

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	9.21		mg/L	0.01	Field	1	04/30/2025 14:13	BGS	H
Oxidation-Reduction Potential	213		mV		Field	1	04/30/2025 14:13	BGS	H
pH, Field (SM4500B)	7.75		pH_Units		Field	1	04/30/2025 14:13	BGS	H
Specific Conductance, Field	301		umhos/cm	1	Field	1	04/30/2025 14:13	BGS	H
Temperature	15.99		Deg. C		Field	1	04/30/2025 14:13	BGS	H
Turbidity, Field	30		NTU	1	Field	1	04/30/2025 14:13	BGS	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	05/08/2025 11:09	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Barium, Dissolved	0.0096		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Barium, Total	0.0093		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Calcium, Dissolved	27.4		mg/L	0.11	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Calcium, Total	27.5		mg/L	0.11	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Copper, Dissolved	0.0092		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Copper, Total	0.010		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Magnesium, Dissolved	1.3		mg/L	0.11	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Magnesium, Total	1.2		mg/L	0.11	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:09	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:43	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Potassium, Dissolved	39.2		mg/L	0.11	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Potassium, Total	38.4		mg/L	0.11	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 09:45	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Sodium, Dissolved	11.3		mg/L	0.11	SW846 6020A	1	05/14/2025 10:10	KXH	D1
Sodium, Total	11.6		mg/L	0.11	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Vanadium, Total	0.0023		mg/L	0.0022	SW846 6020A	1	05/08/2025 11:09	KXH	F1
Zinc, Dissolved	0.023		mg/L	0.0056	SW846 6020A	1	05/07/2025 09:45	KXH	D1



Results

Client Sample ID	CWMP012W	Collected	04/30/2025 14:05
Lab Sample ID	3413083004	Lab Receipt	04/30/2025 15:30

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Zinc, Total	0.024		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:09	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 15:34	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L



Results

Client Sample ID	CWMP012W	Collected	04/30/2025 14:05
Lab Sample ID	3413083004	Lab Receipt	04/30/2025 15:30

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 15:34	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 15:34	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.1%	62 – 133	05/06/2025 15:34	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	05/06/2025 15:34	
Dibromofluoromethane	1868-53-7	91.8%	78 – 116	05/06/2025 15:34	
Toluene-d8	2037-26-5	99.2%	76 – 127	05/06/2025 15:34	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	142		mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Alkalinity, Total	142	5	mg/L	5	SM2320B-2011	1	05/14/2025 13:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 13:56	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	05/01/2025 10:04	J1W	A
Fluoride	0.35		mg/L	0.20	EPA 300.0	2	05/01/2025 10:04	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	05/01/2025 10:04	J1W	A
pH	7.14	6	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 14:51	AKH	K
Specific Conductance	304		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	3.8		mg/L	2.0	EPA 300.0	2	05/01/2025 10:04	J1W	A
Total Dissolved Solids	244		mg/L	25	SM2540C-15	1	05/01/2025 15:30	RAG	A
Total Organic Carbon (TOC)	4.7		mg/L	0.50	SM5310B-14	1	05/01/2025 18:49	PAG	I
Turbidity	16		NTU	0.30	SM2130B-2011	1	05/01/2025 09:02	NPF	A



Results

Client Sample ID	Trip Blank	Collected	04/30/2025 00:00
Lab Sample ID	3413083005	Lab Receipt	04/30/2025 15:30

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 12:55	PDK	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	05/06/2025 12:55	IXK	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Bromoform	ND	ND,1	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Chloroethane	ND	ND,2	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Chloroform	9.2		ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Dichlorodifluoromethane	ND	ND,3	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Iodomethane	ND	ND,4	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A



Results

Client Sample ID	Trip Blank	Collected	04/30/2025 00:00
Lab Sample ID	3413083005	Lab Receipt	04/30/2025 15:30

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	05/06/2025 12:55	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/06/2025 12:55	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/06/2025 12:55	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	96.5%	62 – 133	05/06/2025 12:55	
4-Bromofluorobenzene	460-00-4	98%	79 – 114	05/06/2025 12:55	
Dibromofluoromethane	1868-53-7	92%	78 – 116	05/06/2025 12:55	
Toluene-d8	2037-26-5	96.3%	76 – 127	05/06/2025 12:55	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3413083001	CWMP003W	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	
3413083002	CWMP004W	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	
3413083003	CWMP002W	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
3413083004	CWMP012W	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	
3413083005	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
3413083001	CWMP003W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430495
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430793
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 7470A	1429833	05/05/2025 07:10	AJN	SW846 7470A	1429936
		SW846 7470A	1429834	05/05/2025 07:10	AJN	SW846 7470A	1429937
		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	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427592
		N/A	N/A	N/A		SM2130B-2011	1427815
		N/A	N/A	N/A		SM2320B-2011	1433958
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427867
		N/A	N/A	N/A		SM5310B-14	1427898
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413083002	CWMP004W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430495
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430793
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 7470A	1429833	05/05/2025 07:10	AJN	SW846 7470A	1429936
		SW846 7470A	1429834	05/05/2025 07:10	AJN	SW846 7470A	1429937
		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	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427592
		N/A	N/A	N/A		SM2130B-2011	1427815
		N/A	N/A	N/A		SM2320B-2011	1433958
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427867
		N/A	N/A	N/A		SM5310B-14	1427898
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413083003	CWMP002W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430495
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430793
		SW846 7470A	1429833	05/05/2025 07:10	AJN	SW846 7470A	1429936
		SW846 7470A	1429834	05/05/2025 07:10	AJN	SW846 7470A	1429937
		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	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427592
		N/A	N/A	N/A		SM2130B-2011	1427815
		N/A	N/A	N/A		SM2320B-2011	1433958
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427867
		N/A	N/A	N/A		SM5310B-14	1427898
		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
3413083004	CWMP012W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430495
		SW846 3015A	1428024	05/02/2025 07:42	ANN	SW846 6020A	1430793
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 7470A	1429833	05/05/2025 07:10	AJN	SW846 7470A	1429936
		SW846 7470A	1429834	05/05/2025 07:10	AJN	SW846 7470A	1429937
		N/A	N/A	N/A		SW846 8260B	1430522
		N/A	N/A	N/A		EPA 300.0	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427815
		N/A	N/A	N/A		SM2320B-2011	1433958
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427867
		N/A	N/A	N/A		SM5310B-14	1427898
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3413083005	Trip Blank	N/A	N/A	N/A		Lib Search VOC	1430556
		N/A	N/A	N/A		SW846 8260B	1430522



Middletown Sample Condition Form

Client Lancaster Solid Waste Workorder 3413083
Temp °C 1° Therm ID 649 Ice? (P) N N/A Initials & Date MJE 4/30/25
Fedex UPS Client (ALS) Other Tracking # _____

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

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:



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

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

Analytical Results Report For **Lancaster County Solid Waste Authority**
Project 2nd QTR 2025 GWMP FORM 19A
Workorder 3412706
Report ID 418686 on 5/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 28, 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
3412706001	CWMP010W	Ground Water	04/28/2025 13:07	04/28/2025 17:00	EMP	ALS Environmental-Middletown
3412706002	CWMP009W	Ground Water	04/28/2025 14:03	04/28/2025 17:00	EMP	ALS Environmental-Middletown
3412706003	CWMP008W	Ground Water	04/28/2025 15:23	04/28/2025 17:00	EMP	ALS Environmental-Middletown
3412706004	Field Blank	Water	04/28/2025 16:00	04/28/2025 17:00	EMP	ALS Environmental-Middletown
3412706005	Trip Blank	Water	04/28/2025 17:00	04/28/2025 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 Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
5	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.



Detected Results Summary

Client Sample ID	CWMP010W	Collected	04/28/2025 13:07
Lab Sample ID	3412706001	Lab Receipt	04/28/2025 17:00

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	8.63	Feet		Field	#
Dissolved Oxygen	6.24	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	360.90	Feet		Field	#
Flow Rate	0.23	gal/min		Field	#
Ground Water Elevation	352.27	ft/MSL		Field	#
Oxidation-Reduction Potential	71	mV		Field	#
pH, Field (SM4500B)	6.94	pH_Units		Field	#
Sample Depth	17.00	Feet		Field	#
Specific Conductance, Field	1471	umhos/cm	1	Field	#
Temperature	17.46	Deg. C		Field	#
Total Well Depth	19.60	Feet		Field	#
Volume in Water Column	7.13	Gallons		Field	#
Water Level After Purge	10.43	Feet		Field	#
Well Volumes Purged	1.13	Vol		Field	#
METALS					
Barium, Dissolved	0.086	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.056	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	76.5	mg/L	0.11	SW846 6020A	#
Calcium, Total	51.5	mg/L	0.11	SW846 6020A	#
Chromium, Dissolved	0.0069	mg/L	0.0022	SW846 6020A	#
Chromium, Total	0.17	mg/L	0.0022	SW846 6020A	#
Copper, Dissolved	0.0099	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.0084	mg/L	0.0056	SW846 6020A	#
Iron, Dissolved	0.082	mg/L	0.056	SW846 6020A	#
Iron, Total	1.1	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	54.5	mg/L	0.11	SW846 6020A	#
Magnesium, Total	50.6	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.30	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.055	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.078	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	13.3	mg/L	0.11	SW846 6020A	#
Potassium, Total	9.4	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	186	mg/L	11.0	SW846 6020A	#
Sodium, Total	155	mg/L	1.1	SW846 6020A	#
Zinc, Dissolved	0.081	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.042	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	227	mg/L	5	SM2320B-2011	#
Alkalinity, Total	227	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	15	mg/L	15	EPA 410.4	#
Chloride	246	mg/L	5.0	EPA 300.0	#
Fluoride	0.35	mg/L	0.20	EPA 300.0	#
Nitrate-N	21.5	mg/L	2.5	EPA 300.0	#
pH	7.03	pH_Units		S4500HB-11	#
Specific Conductance	1400	umhos/cm	5	SM2510B-2011	#
Sulfate	32.0	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	946	mg/L	25	SM2540C-15	#



Detected Results Summary

Sample - CWMP010W (cont.)					
Compound	Result	Units	RDL	Method	Flag
WET CHEMISTRY (cont.)					
Total Organic Carbon (TOC)	3.6	mg/L	0.50	SM5310B-14	#
Turbidity	3.8	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP009W	Collected	04/28/2025 14:03		
Lab Sample ID	3412706002	Lab Receipt	04/28/2025 17:00		
Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	9.15	Feet		Field	#
Dissolved Oxygen	0.15	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	404.20	Feet		Field	#
Flow Rate	1.18	gal/min		Field	#
Ground Water Elevation	395.05	ft/MSL		Field	#
Oxidation-Reduction Potential	-33	mV		Field	#
pH, Field (SM4500B)	6.00	pH_Units		Field	#
Sample Depth	16.00	Feet		Field	#
Specific Conductance, Field	3374	umhos/cm	1	Field	#
Temperature	11.91	Deg. C		Field	#
Total Well Depth	19.70	Feet		Field	#
Volume in Water Column	6.86	Gallons		Field	#
Water Level After Purge	10.63	Feet		Field	#
Well Volumes Purged	2.75	Vol		Field	#
METALS					
Arsenic, Dissolved	0.0042	mg/L	0.0033	SW846 6020A	#
Arsenic, Total	0.0044	mg/L	0.0033	SW846 6020A	#
Barium, Dissolved	0.85	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.87	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	175	mg/L	0.11	SW846 6020A	#
Calcium, Total	180	mg/L	0.11	SW846 6020A	#
Chromium, Dissolved	0.0034	mg/L	0.0022	SW846 6020A	#
Cobalt, Total	0.069	mg/L	0.0056	SW846 6020A	#
Iron, Dissolved	35.7	mg/L	0.056	SW846 6020A	#
Iron, Total	38.7	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	89.2	mg/L	0.11	SW846 6020A	#
Magnesium, Total	90.9	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	13.6	mg/L	0.056	SW846 6020A	#
Manganese, Total	14.1	mg/L	0.056	SW846 6020A	#
Nickel, Total	0.13	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	30.6	mg/L	0.11	SW846 6020A	#
Potassium, Total	32.0	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	229	mg/L	1.1	SW846 6020A	#
Sodium, Total	231	mg/L	1.1	SW846 6020A	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.3	ug/L	1.0	SW846 8260B	#
1,2-Dichlorobenzene	2.2	ug/L	1.0	SW846 8260B	#
1,4-Dichlorobenzene	10.0	ug/L	1.0	SW846 8260B	#
Benzene	2.7	ug/L	1.0	SW846 8260B	#
Chlorobenzene	21.1	ug/L	1.0	SW846 8260B	#
cis-1,2-Dichloroethene	1.4	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	55	mg/L	50	SM2320B-2011	#
Alkalinity, Total	55	mg/L	50	SM2320B-2011	#
Ammonia-N, Low Level	26.6	mg/L	2.50	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	117	mg/L	15	EPA 410.4	#
Chloride	723	mg/L	10.0	EPA 300.0	#



Detected Results Summary

Sample - CWMP009W (cont.)					
Compound	Result	Units	RDL	Method	Flag
WET CHEMISTRY (cont.)					
pH	6.38	pH_Units		S4500HB-11	#
Specific Conductance	3050	umhos/cm	50	SM2510B-2011	#
Sulfate	8.3	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	2060	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	37.8	mg/L	5.0	SM5310B-14	#
Turbidity	37	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP008W	Collected	04/28/2025 15:23		
Lab Sample ID	3412706003	Lab Receipt	04/28/2025 17:00		
Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	3.22	Feet		Field	#
Dissolved Oxygen	0.33	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	422.30	Feet		Field	#
Flow Rate	1.11	gal/min		Field	#
Ground Water Elevation	419.08	ft/MSL		Field	#
Oxidation-Reduction Potential	-13	mV		Field	#
pH, Field (SM4500B)	5.97	pH_Units		Field	#
Sample Depth	19.00	Feet		Field	#
Specific Conductance, Field	741	umhos/cm	1	Field	#
Temperature	13.82	Deg. C		Field	#
Total Well Depth	22.80	Feet		Field	#
Volume in Water Column	3.13	Gallons		Field	#
Water Level After Purge	9.33	Feet		Field	#
Well Volumes Purged	4.25	Vol		Field	#
METALS					
Barium, Dissolved	0.10	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.11	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	50.3	mg/L	0.11	SW846 6020A	#
Calcium, Total	52.0	mg/L	0.11	SW846 6020A	#
Cobalt, Total	0.021	mg/L	0.0056	SW846 6020A	#
Iron, Dissolved	16.8	mg/L	0.056	SW846 6020A	#
Iron, Total	18.1	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	24.9	mg/L	0.11	SW846 6020A	#
Magnesium, Total	25.3	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	12.0	mg/L	0.056	SW846 6020A	#
Manganese, Total	12.9	mg/L	0.028	SW846 6020A	#
Nickel, Total	0.017	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	6.7	mg/L	0.11	SW846 6020A	#
Potassium, Total	7.0	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	31.6	mg/L	1.1	SW846 6020A	#
Sodium, Total	31.3	mg/L	0.55	SW846 6020A	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.8	ug/L	1.0	SW846 8260B	#
1,2-Dichlorobenzene	1.0	ug/L	1.0	SW846 8260B	#
1,4-Dichlorobenzene	7.8	ug/L	1.0	SW846 8260B	#
Chlorobenzene	6.5	ug/L	1.0	SW846 8260B	#
Chloroethane	9.9	ug/L	1.0	SW846 8260B	#
Dichlorodifluoromethane	2.3	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	313	mg/L	5	SM2320B-2011	#
Alkalinity, Total	313	mg/L	5	SM2320B-2011	#
Ammonia-N, Low Level	4.64	mg/L	0.50	SM 4500-NH3G	#
Chemical Oxygen Demand (COD)	23	mg/L	15	EPA 410.4	#
Chloride	28.0	mg/L	2.0	EPA 300.0	#
pH	6.50	pH_Units		S4500HB-11	#
Specific Conductance	663	umhos/cm	5	SM2510B-2011	#
Sulfate	7.4	mg/L	2.0	EPA 300.0	#



Detected Results Summary

Sample - CWMP008W (cont.)					
Compound	Result	Units	RDL	Method	Flag
WET CHEMISTRY (cont.)					
Total Dissolved Solids	510	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.9	mg/L	1.0	SM5310B-14	#
Turbidity	3.7	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	Field Blank	Collected	04/28/2025 16:00
Lab Sample ID	3412706004	Lab Receipt	04/28/2025 17:00

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Calcium, Dissolved	0.17	mg/L	0.11	SW846 6020A	#
Chromium, Total	0.0063	mg/L	0.0022	SW846 6020A	#
Sodium, Dissolved	0.44	mg/L	0.11	SW846 6020A	#
Sodium, Total	0.23	mg/L	0.11	SW846 6020A	#
VOLATILE ORGANICS					
Chloroform	12.5	ug/L	1.0	SW846 8260B	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	11	mg/L	5	SM2320B-2011	#
Alkalinity, Total	11	mg/L	5	SM2320B-2011	#
pH	7.62	pH_Units		S4500HB-11	#
Total Dissolved Solids	53	mg/L	25	SM2540C-15	#
Turbidity	0.50	NTU	0.30	SM2130B-2011	#



Results

Client Sample ID	CWMP010W	Collected	04/28/2025 13:07
Lab Sample ID	3412706001	Lab Receipt	04/28/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	8.63		Feet		Field	1	04/28/2025 13:07	BGS	H
Dissolved Oxygen	6.24		mg/L	0.01	Field	1	04/28/2025 13:07	BGS	H
Elev Top MW Casing above MSL	360.90		Feet		Field	1	04/28/2025 13:07	BGS	H
Flow Rate	0.23		gal/min		Field	1	04/28/2025 13:07	BGS	H
Ground Water Elevation	352.27		ft/MSL		Field	1	04/28/2025 13:07	BGS	H
Oxidation-Reduction Potential	71		mV		Field	1	04/28/2025 13:07	BGS	H
pH, Field (SM4500B)	6.94		pH_Units		Field	1	04/28/2025 13:07	BGS	H
Sample Depth	17.00		Feet		Field	1	04/28/2025 13:07	BGS	H
Specific Conductance, Field	1471		umhos/cm	1	Field	1	04/28/2025 13:07	BGS	H
Temperature	17.46		Deg. C		Field	1	04/28/2025 13:07	BGS	H
Total Well Depth	19.60		Feet		Field	1	04/28/2025 13:07	BGS	H
Turbidity, Field	ND	ND	NTU	1	Field	1	04/28/2025 13:07	BGS	H
Volume in Water Column	7.13		Gallons		Field	1	04/28/2025 13:07	BGS	H
Water Level After Purge	10.43		Feet		Field	1	04/28/2025 13:07	BGS	H
Well Volumes Purged	1.13		Vol		Field	1	04/28/2025 13:07	BGS	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	05/07/2025 11:59	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Barium, Dissolved	0.086		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Barium, Total	0.056		mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Calcium, Dissolved	76.5		mg/L	0.11	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Calcium, Total	51.5	3	mg/L	0.11	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Chromium, Dissolved	0.0069		mg/L	0.0022	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Chromium, Total	0.17		mg/L	0.0022	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Copper, Dissolved	0.0099		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Copper, Total	0.0084		mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Iron, Dissolved	0.082		mg/L	0.056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Iron, Total	1.1		mg/L	0.056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Magnesium, Dissolved	54.5		mg/L	0.11	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Magnesium, Total	50.6	3	mg/L	0.11	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Manganese, Dissolved	0.30		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Manganese, Total	0.055		mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 10:58	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 11:25	AJN	F
Nickel, Total	0.078		mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Potassium, Dissolved	13.3		mg/L	0.11	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Potassium, Total	9.4	3	mg/L	0.11	SW846 6020A	1	05/07/2025 11:59	KXH	F1



Results

Client Sample ID	CWMP010W	Collected	04/28/2025 13:07
Lab Sample ID	3412706001	Lab Receipt	04/28/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Sodium, Dissolved	186		mg/L	11.0	SW846 6020A	100	05/13/2025 10:41	KXH	D1
Sodium, Total	155	3	mg/L	1.1	SW846 6020A	10	05/08/2025 12:21	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:59	KXH	F1
Zinc, Dissolved	0.081		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:09	KXH	D1
Zinc, Total	0.042		mg/L	0.0056	SW846 6020A	1	05/07/2025 11:59	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	05/03/2025 17:01	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L



Results

Client Sample ID	CWMP010W	Collected	04/28/2025 13:07
Lab Sample ID	3412706001	Lab Receipt	04/28/2025 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	05/03/2025 17:01	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:01	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:01	IXK	L

TICs by Library Search

Compound	CAS No	Result	Units	Qualifiers
Sulfur dioxide	7446-09-5	3.2	ug/L	J,N

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	05/03/2025 17:01	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	05/03/2025 17:01	
Dibromofluoromethane	1868-53-7	111%	78 – 116	05/03/2025 17:01	
Toluene-d8	2037-26-5	92.4%	76 – 127	05/03/2025 17:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	227		mg/L	5	SM2320B-2011	1	05/09/2025 12:33	JXK	A
Alkalinity, Total	227	1	mg/L	5	SM2320B-2011	1	05/09/2025 12:33	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 10:20	AYS	C
Chemical Oxygen Demand (COD)	15		mg/L	15	EPA 410.4	1	04/30/2025 11:30	KMS	C
Chloride	246		mg/L	5.0	EPA 300.0	5	04/30/2025 23:16	J1W	A
Fluoride	0.35		mg/L	0.20	EPA 300.0	2	04/29/2025 09:22	J1W	A
Nitrate-N	21.5		mg/L	2.5	EPA 300.0	5	04/30/2025 23:16	J1W	A
pH	7.03	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 14:38	AKH	K
Specific Conductance	1400		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	32.0		mg/L	2.0	EPA 300.0	2	04/29/2025 09:22	J1W	A
Total Dissolved Solids	946		mg/L	25	SM2540C-15	1	04/30/2025 16:00	RAG	A



Results

Client Sample ID	CWMP010W	Collected	04/28/2025 13:07
Lab Sample ID	3412706001	Lab Receipt	04/28/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Organic Carbon (TOC)	3.6		mg/L	0.50	SM5310B-14	1	04/30/2025 02:21	PAG	I
Turbidity	3.8		NTU	0.30	SM2130B-2011	1	04/29/2025 09:02	NPF	A



Results

Client Sample ID	CWMP009W	Collected	04/28/2025 14:03
Lab Sample ID	3412706002	Lab Receipt	04/28/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	9.15		Feet		Field	1	04/28/2025 14:03	BGS	H
Dissolved Oxygen	0.15		mg/L	0.01	Field	1	04/28/2025 14:03	BGS	H
Elev Top MW Casing above MSL	404.20		Feet		Field	1	04/28/2025 14:03	BGS	H
Flow Rate	1.18		gal/min		Field	1	04/28/2025 14:03	BGS	H
Ground Water Elevation	395.05		ft/MSL		Field	1	04/28/2025 14:03	BGS	H
Oxidation-Reduction Potential	-33		mV		Field	1	04/28/2025 14:03	BGS	H
pH, Field (SM4500B)	6.00		pH_Units		Field	1	04/28/2025 14:03	BGS	H
Sample Depth	16.00		Feet		Field	1	04/28/2025 14:03	BGS	H
Specific Conductance, Field	3374		umhos/cm	1	Field	1	04/28/2025 14:03	BGS	H
Temperature	11.91		Deg. C		Field	1	04/28/2025 14:03	BGS	H
Total Well Depth	19.70		Feet		Field	1	04/28/2025 14:03	BGS	H
Turbidity, Field	ND	ND	NTU	1	Field	1	04/28/2025 14:03	BGS	H
Volume in Water Column	6.86		Gallons		Field	1	04/28/2025 14:03	BGS	H
Water Level After Purge	10.63		Feet		Field	1	04/28/2025 14:03	BGS	H
Well Volumes Purged	2.75		Vol		Field	1	04/28/2025 14:03	BGS	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	05/07/2025 12:05	KXH	F1
Arsenic, Dissolved	0.0042		mg/L	0.0033	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Arsenic, Total	0.0044		mg/L	0.0033	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Barium, Dissolved	0.85		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Barium, Total	0.87		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Calcium, Dissolved	175		mg/L	0.11	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Calcium, Total	180		mg/L	0.11	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Chromium, Dissolved	0.0034		mg/L	0.0022	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Cobalt, Total	0.069		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Iron, Dissolved	35.7		mg/L	0.056	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Iron, Total	38.7		mg/L	0.056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Magnesium, Dissolved	89.2		mg/L	0.11	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Magnesium, Total	90.9		mg/L	0.11	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Manganese, Dissolved	13.6		mg/L	0.056	SW846 6020A	10	05/13/2025 10:43	KXH	D1
Manganese, Total	14.1		mg/L	0.056	SW846 6020A	10	05/08/2025 12:28	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 10:59	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 11:28	AJN	F
Nickel, Total	0.13		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Potassium, Dissolved	30.6		mg/L	0.11	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Potassium, Total	32.0		mg/L	0.11	SW846 6020A	1	05/07/2025 12:05	KXH	F1



Results

Client Sample ID	CWMP009W	Collected	04/28/2025 14:03
Lab Sample ID	3412706002	Lab Receipt	04/28/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Sodium, Dissolved	229		mg/L	1.1	SW846 6020A	10	05/13/2025 10:43	KXH	D1
Sodium, Total	231		mg/L	1.1	SW846 6020A	10	05/08/2025 12:28	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:05	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:11	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:05	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	05/03/2025 17:21	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,1-Dichloroethane	1.3		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2-Dichlorobenzene	2.2		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
1,4-Dichlorobenzene	10.0		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Benzene	2.7		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Chlorobenzene	21.1		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
cis-1,2-Dichloroethene	1.4		ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L



Results

Client Sample ID	CWMP009W	Collected	04/28/2025 14:03
Lab Sample ID	3412706002	Lab Receipt	04/28/2025 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	05/03/2025 17:21	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:21	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:21	IXK	L

TICs by Library Search

Compound	CAS No	Result	Units	Qualifiers
Diethyl sulfide	352-93-2	6.5	ug/L	J,N
Isobutane	75-28-5	8.6	ug/L	J,N
Sulfur dioxide(DOT)	7446-09-5	49.2	ug/L	J,N

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	05/03/2025 17:21	
4-Bromofluorobenzene	460-00-4	99.1%	79 – 114	05/03/2025 17:21	
Dibromofluoromethane	1868-53-7	106%	78 – 116	05/03/2025 17:21	
Toluene-d8	2037-26-5	89.5%	76 – 127	05/03/2025 17:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	55		mg/L	50	SM2320B-2011	10	05/12/2025 14:00	MYM	A
Alkalinity, Total	55	1	mg/L	50	SM2320B-2011	10	05/12/2025 14:00	MYM	A
Ammonia-N, Low Level	26.6		mg/L	2.50	SM 4500-NH3G	25	05/07/2025 10:29	AYS	C
Chemical Oxygen Demand (COD)	117		mg/L	15	EPA 410.4	1	04/30/2025 11:30	KMS	C
Chloride	723		mg/L	10.0	EPA 300.0	10	04/30/2025 23:29	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	04/29/2025 09:34	J1W	A
Nitrate-N	ND	ND	mg/L	2.5	EPA 300.0	5	04/29/2025 09:34	J1W	A
pH	6.38	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 14:58	AKH	K
Specific Conductance	3050		umhos/cm	50	SM2510B-2011	10	05/13/2025 11:34	MAN	A



Results

Client Sample ID	CWMP009W	Collected	04/28/2025 14:03
Lab Sample ID	3412706002	Lab Receipt	04/28/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Sulfate	8.3		mg/L	5.0	EPA 300.0	5	04/29/2025 09:34	J1W	A
Total Dissolved Solids	2060		mg/L	25	SM2540C-15	1	04/30/2025 16:00	RAG	A
Total Organic Carbon (TOC)	37.8		mg/L	5.0	SM5310B-14	10	04/30/2025 02:21	PAG	I
Turbidity	37		NTU	0.30	SM2130B-2011	1	04/29/2025 09:02	NPF	A



Results

Client Sample ID	CWMP008W	Collected	04/28/2025 15:23
Lab Sample ID	3412706003	Lab Receipt	04/28/2025 17:00

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	3.22		Feet		Field	1	04/28/2025 15:23	BGS	H
Dissolved Oxygen	0.33		mg/L	0.01	Field	1	04/28/2025 15:23	BGS	H
Elev Top MW Casing above MSL	422.30		Feet		Field	1	04/28/2025 15:23	BGS	H
Flow Rate	1.11		gal/min		Field	1	04/28/2025 15:23	BGS	H
Ground Water Elevation	419.08		ft/MSL		Field	1	04/28/2025 15:23	BGS	H
Oxidation-Reduction Potential	-13		mV		Field	1	04/28/2025 15:23	BGS	H
pH, Field (SM4500B)	5.97		pH_Units		Field	1	04/28/2025 15:23	BGS	H
Sample Depth	19.00		Feet		Field	1	04/28/2025 15:23	BGS	H
Specific Conductance, Field	741		umhos/cm	1	Field	1	04/28/2025 15:23	BGS	H
Temperature	13.82		Deg. C		Field	1	04/28/2025 15:23	BGS	H
Total Well Depth	22.80		Feet		Field	1	04/28/2025 15:23	BGS	H
Turbidity, Field	ND	ND	NTU	1	Field	1	04/28/2025 15:23	BGS	H
Volume in Water Column	3.13		Gallons		Field	1	04/28/2025 15:23	BGS	H
Water Level After Purge	9.33		Feet		Field	1	04/28/2025 15:23	BGS	H
Well Volumes Purged	4.25		Vol		Field	1	04/28/2025 15:23	BGS	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	05/07/2025 12:07	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Barium, Dissolved	0.10		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Barium, Total	0.11		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Calcium, Dissolved	50.3		mg/L	0.11	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Calcium, Total	52.0		mg/L	0.11	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Cobalt, Total	0.021		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Iron, Dissolved	16.8		mg/L	0.056	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Iron, Total	18.1		mg/L	0.056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Magnesium, Dissolved	24.9		mg/L	0.11	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Magnesium, Total	25.3		mg/L	0.11	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Manganese, Dissolved	12.0		mg/L	0.056	SW846 6020A	10	05/13/2025 10:45	KXH	D1
Manganese, Total	12.9		mg/L	0.028	SW846 6020A	5	05/08/2025 13:15	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 11:01	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 11:29	AJN	F
Nickel, Total	0.017		mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Potassium, Dissolved	6.7		mg/L	0.11	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Potassium, Total	7.0		mg/L	0.11	SW846 6020A	1	05/07/2025 12:07	KXH	F1



Results

Client Sample ID	CWMP008W	Collected	04/28/2025 15:23
Lab Sample ID	3412706003	Lab Receipt	04/28/2025 17:00

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Sodium, Dissolved	31.6		mg/L	1.1	SW846 6020A	10	05/13/2025 10:45	KXH	D1
Sodium, Total	31.3		mg/L	0.55	SW846 6020A	5	05/08/2025 13:15	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 12:07	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:13	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 12:07	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	05/03/2025 17:41	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,1-Dichloroethane	1.8		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2-Dichlorobenzene	1.0		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
1,4-Dichlorobenzene	7.8		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Chlorobenzene	6.5		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Chloroethane	9.9		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L



Results

Client Sample ID	CWMP008W	Collected	04/28/2025 15:23
Lab Sample ID	3412706003	Lab Receipt	04/28/2025 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	05/03/2025 17:41	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Dichlorodifluoromethane	2.3		ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 17:41	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 17:41	IXK	L

TICs by Library Search

Compound	CAS No	Result	Units	Qualifiers
Diethyl sulfide	352-93-2	5.3	ug/L	J,N
Sulfur dioxide(DOT)	7446-09-5	8.6	ug/L	J,N

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.6%	62 – 133	05/03/2025 17:41	
4-Bromofluorobenzene	460-00-4	108%	79 – 114	05/03/2025 17:41	
Dibromofluoromethane	1868-53-7	100%	78 – 116	05/03/2025 17:41	
Toluene-d8	2037-26-5	86.4%	76 – 127	05/03/2025 17:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	313		mg/L	5	SM2320B-2011	1	05/09/2025 12:57	JXK	A
Alkalinity, Total	313	1	mg/L	5	SM2320B-2011	1	05/09/2025 12:57	JXK	A
Ammonia-N, Low Level	4.64		mg/L	0.50	SM 4500-NH3G	5	05/07/2025 12:14	AYS	C
Chemical Oxygen Demand (COD)	23		mg/L	15	EPA 410.4	1	04/30/2025 11:30	KMS	C
Chloride	28.0		mg/L	2.0	EPA 300.0	2	04/29/2025 09:45	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	04/29/2025 09:45	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	04/29/2025 09:45	J1W	A
pH	6.50	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 14:56	AKH	K
Specific Conductance	663		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	7.4		mg/L	2.0	EPA 300.0	2	04/29/2025 09:45	J1W	A



Results

Client Sample ID	CWMP008W	Collected	04/28/2025 15:23
Lab Sample ID	3412706003	Lab Receipt	04/28/2025 17:00

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Dissolved Solids	510		mg/L	25	SM2540C-15	1	04/30/2025 16:00	RAG	A
Total Organic Carbon (TOC)	5.9		mg/L	1.0	SM5310B-14	2	04/30/2025 02:21	PAG	I
Turbidity	3.7		NTU	0.30	SM2130B-2011	1	04/29/2025 09:02	NPF	A



Results

Client Sample ID	Field Blank	Collected	04/28/2025 16:00
Lab Sample ID	3412706004	Lab Receipt	04/28/2025 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	05/03/2025 13:03	TMP	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	05/07/2025 11:56	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Barium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Barium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Calcium, Dissolved	0.17		mg/L	0.11	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Calcium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Chromium, Total	0.0063		mg/L	0.0022	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Iron, Total	ND	ND	mg/L	0.056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Magnesium, Dissolved	ND	ND	mg/L	0.11	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Magnesium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/05/2025 11:27	AJN	O
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	04/30/2025 11:27	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Potassium, Dissolved	ND	ND	mg/L	0.11	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Potassium, Total	ND	ND	mg/L	0.11	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Selenium, Dissolved	ND	ND,5	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Sodium, Dissolved	0.44		mg/L	0.11	SW846 6020A	1	05/13/2025 14:38	KXH	O1
Sodium, Total	0.23		mg/L	0.11	SW846 6020A	1	05/08/2025 13:13	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/07/2025 11:56	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 10:34	KXH	O1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/07/2025 11:56	KXH	F1



Results

Client Sample ID	Field Blank	Collected	04/28/2025 16:00
Lab Sample ID	3412706004	Lab Receipt	04/28/2025 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	05/03/2025 13:03	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Chloroform	12.5		ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:03	IXK	L



Results

Client Sample ID	Field Blank	Collected	04/28/2025 16:00
Lab Sample ID	3412706004	Lab Receipt	04/28/2025 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	05/03/2025 13:03	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:03	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:03	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.3%	62 – 133	05/03/2025 13:03	
4-Bromofluorobenzene	460-00-4	109%	79 – 114	05/03/2025 13:03	
Dibromofluoromethane	1868-53-7	103%	78 – 116	05/03/2025 13:03	
Toluene-d8	2037-26-5	90.5%	76 – 127	05/03/2025 13:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	11		mg/L	5	SM2320B-2011	1	05/09/2025 13:12	JXK	A
Alkalinity, Total	11	1	mg/L	5	SM2320B-2011	1	05/09/2025 13:12	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 10:56	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	04/30/2025 11:30	KMS	C
Chloride	ND	ND	mg/L	2.0	EPA 300.0	2	04/29/2025 09:57	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	04/29/2025 09:57	J1W	A
Nitrate-N	ND	ND	mg/L	1.0	EPA 300.0	2	04/29/2025 09:57	J1W	A
pH	7.62	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	04/30/2025 14:35	AKH	K
Specific Conductance	ND	ND	umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	ND	ND	mg/L	2.0	EPA 300.0	2	04/29/2025 09:57	J1W	A
Total Dissolved Solids	53		mg/L	25	SM2540C-15	1	04/30/2025 16:00	RAG	A
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	04/30/2025 02:21	PAG	I
Turbidity	0.50		NTU	0.30	SM2130B-2011	1	04/29/2025 09:02	NPF	A



Results

Client Sample ID	Trip Blank	Collected	04/28/2025 17:00
Lab Sample ID	3412706005	Lab Receipt	04/28/2025 17:00

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	05/03/2025 13:22	IXK	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A



Results

Client Sample ID	Trip Blank	Collected	04/28/2025 17:00
Lab Sample ID	3412706005	Lab Receipt	04/28/2025 17:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:22	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:22	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	05/03/2025 13:22	
4-Bromofluorobenzene	460-00-4	108%	79 – 114	05/03/2025 13:22	
Dibromofluoromethane	1868-53-7	105%	78 – 116	05/03/2025 13:22	
Toluene-d8	2037-26-5	96.5%	76 – 127	05/03/2025 13:22	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3412706001	CWMP010W	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 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	
3412706002	CWMP009W	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 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	
3412706003	CWMP008W	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
3412706004	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	
3412706005	Trip Blank	SW846 8260B	N/A	



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3412706001	CWMP010W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1428164
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1430797
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 7470A	1427352	04/30/2025 06:08	AJN	SW846 7470A	1427587
		SW846 7470A	1427354	04/30/2025 06:08	AJN	SW846 7470A	1427588
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427546
		N/A	N/A	N/A		EPA 300.0	1427229
		N/A	N/A	N/A		EPA 410.4	1427563
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427243
		N/A	N/A	N/A		SM2320B-2011	1431059
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427595
		N/A	N/A	N/A		SM5310B-14	1427357
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622
3412706002	CWMP009W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1430797
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1428164
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 7470A	1427352	04/30/2025 06:08	AJN	SW846 7470A	1427587
		SW846 7470A	1427354	04/30/2025 06:08	AJN	SW846 7470A	1427588
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427546
		N/A	N/A	N/A		EPA 300.0	1427229
		N/A	N/A	N/A		EPA 410.4	1427563
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427243
		N/A	N/A	N/A		SM2320B-2011	1432530
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427595
		N/A	N/A	N/A		SM5310B-14	1427357
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622
3412706003	CWMP008W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1428164
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1430797
		SW846 7470A	1427354	04/30/2025 06:08	AJN	SW846 7470A	1427588
		SW846 7470A	1427352	04/30/2025 06:08	AJN	SW846 7470A	1427587
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427229
		N/A	N/A	N/A		EPA 410.4	1427563
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427243
		N/A	N/A	N/A		SM2320B-2011	1431059
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427595
		N/A	N/A	N/A		SM5310B-14	1427357
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3412706004	Field Blank	SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1431008
		SW846 3015A	1430336	05/06/2025 08:16	ANN	SW846 6020A	1432853
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1430797
		SW846 3015A	1427531	04/30/2025 07:16	ANN	SW846 6020A	1428164
		SW846 7470A	1427354	04/30/2025 06:08	AJN	SW846 7470A	1427588
		SW846 7470A	1429833	05/05/2025 07:10	AJN	SW846 7470A	1429936
		N/A	N/A	N/A		Lib Search VOC	1428530
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427229
		N/A	N/A	N/A		EPA 410.4	1427563
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427243
		N/A	N/A	N/A		SM2320B-2011	1431059
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427595
		N/A	N/A	N/A		SM5310B-14	1427357
		SW846 9066	1427620	04/30/2025 10:09	AKH	SW846 9066	1427622
3412706005	Trip Blank	N/A	N/A	N/A		SW846 8260B	1428430



SAMPLER. INSTRUCTIONS ON THE BACK.

PM: 5:30
Page 7

1

Also Quick

SAMPLER. INSTRUCTIONS ON THE BACK.

PM: 5:30
Page 7

+

Also Quick

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



Middletown Sample Condition Form

Client lancastr county Workorder 3412706
Temp °C 2 Therm ID 569 Ice? (Y) N N/A Initials & Date MP 4/28/25
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		✓		UC
•Number of containers		✓		UC
•Composite or grab		↓		UC
•Matrix		↓		UC
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			added to coc
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 GWMP FORM 19A
Workorder 3412940
Report ID 418759 on 5/20/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 29, 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
3412940001	CWMP016W	Ground Water	04/29/2025 09:04	04/29/2025 15:20	EMP	ALS Environmental-Middletown
3412940002	CWMP018S	Ground Water	04/29/2025 09:38	04/29/2025 15:20	EMP	ALS Environmental-Middletown
3412940003	CWMP017S	Ground Water	04/29/2025 10:11	04/29/2025 15:20	EMP	ALS Environmental-Middletown
3412940004	Field Blank	Water	04/29/2025 11:30	04/29/2025 15:20	EMP	ALS Environmental-Middletown
3412940006	Trip Blank	Water	04/29/2025 15:20	04/29/2025 15:20	EMP	ALS Environmental-Middletown



Reference

Notes

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

Standard Acronyms/Flags

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



Project Notations

Sample Notations

Lab ID

Sample ID

Result Notations	
Notation Ref.	
1	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
2	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
3	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.



Detected Results Summary

Client Sample ID	CWMP016W	Collected	04/29/2025 09:04
Lab Sample ID	3412940001	Lab Receipt	04/29/2025 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Depth to Water Level	10.81	Feet		Field	#
Dissolved Oxygen	9.63	mg/L	0.01	Field	#
Elev Top MW Casing above MSL	311.97	Feet		Field	#
Flow Rate	1.92	gal/min		Field	#
Ground Water Elevation	301.16	ft/MSL		Field	#
Oxidation-Reduction Potential	271	mV		Field	#
pH, Field (SM4500B)	5.60	pH_Units		Field	#
Sample Depth	71.00	Feet		Field	#
Specific Conductance, Field	62	umhos/cm	1	Field	#
Temperature	12.49	Deg. C		Field	#
Total Well Depth	73.52	Feet		Field	#
Turbidity, Field	1	NTU	1	Field	#
Volume in Water Column	92.18	Gallons		Field	#
Water Level After Purge	17.83	Feet		Field	#
Well Volumes Purged	1.04	Vol		Field	#
METALS					
Barium, Dissolved	0.0087	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.0091	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	5.0	mg/L	0.11	SW846 6020A	#
Calcium, Total	5.2	mg/L	0.11	SW846 6020A	#
Iron, Total	0.13	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	1.2	mg/L	0.11	SW846 6020A	#
Magnesium, Total	1.3	mg/L	0.11	SW846 6020A	#
Potassium, Dissolved	0.44	mg/L	0.11	SW846 6020A	#
Potassium, Total	0.50	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	3.1	mg/L	0.11	SW846 6020A	#
Sodium, Total	3.4	mg/L	0.11	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	11	mg/L	5	SM2320B-2011	#
Alkalinity, Total	11	mg/L	5	SM2320B-2011	#
Chloride	3.2	mg/L	2.0	EPA 300.0	#
Nitrate-N	1.4	mg/L	1.0	EPA 300.0	#
pH	8.66	pH_Units		S4500HB-11	#
Specific Conductance	61	umhos/cm	5	SM2510B-2011	#
Sulfate	10.4	mg/L	2.0	EPA 300.0	#
Total Dissolved Solids	110	mg/L	25	SM2540C-15	#
Turbidity	1.4	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP018S	Collected	04/29/2025 09:38
Lab Sample ID	3412940002	Lab Receipt	04/29/2025 15:20

Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	9.84	mg/L	0.01	Field	#
Oxidation-Reduction Potential	167	mV		Field	#
pH, Field (SM4500B)	8.44	pH_Units		Field	#
Specific Conductance, Field	2990	umhos/cm	1	Field	#
Temperature	14.54	Deg. C		Field	#
Turbidity, Field	2	NTU	1	Field	#
METALS					
Barium, Dissolved	0.047	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.049	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	77.4	mg/L	0.11	SW846 6020A	#
Calcium, Total	79.6	mg/L	0.11	SW846 6020A	#
Copper, Dissolved	0.0073	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.0075	mg/L	0.0056	SW846 6020A	#
Iron, Total	0.073	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	145	mg/L	11.0	SW846 6020A	#
Magnesium, Total	135	mg/L	0.11	SW846 6020A	#
Nickel, Total	0.019	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	22.9	mg/L	0.11	SW846 6020A	#
Potassium, Total	23.4	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	351	mg/L	11.0	SW846 6020A	#
Sodium, Total	362	mg/L	11.0	SW846 6020A	#
Zinc, Dissolved	0.040	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.040	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	67	mg/L	5	SM2320B-2011	#
Alkalinity, Total	67	mg/L	50	SM2320B-2011	#
Chemical Oxygen Demand (COD)	19	mg/L	15	EPA 410.4	#
Chloride	620	mg/L	10.0	EPA 300.0	#
Nitrate-N	24.8	mg/L	2.5	EPA 300.0	#
pH	8.30	pH_Units		S4500HB-11	#
Specific Conductance	332	umhos/cm	5	SM2510B-2011	#
Sulfate	51.3	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	1800	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	17.2	mg/L	2.5	SM5310B-14	#
Turbidity	1.3	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	CWMP017S	Collected	04/29/2025 10:11		
Lab Sample ID	3412940003	Lab Receipt	04/29/2025 15:20		
Compound	Result	Units	RDL	Method	Flag
FIELD PARAMETERS					
Dissolved Oxygen	10.31	mg/L	0.01	Field	#
Oxidation-Reduction Potential	173	mV		Field	#
pH, Field (SM4500B)	8.28	pH_Units		Field	#
Specific Conductance, Field	3714	umhos/cm	1	Field	#
Temperature	19.73	Deg. C		Field	#
Turbidity, Field	4	NTU	1	Field	#
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
METALS					
Barium, Dissolved	0.037	mg/L	0.0056	SW846 6020A	#
Barium, Total	0.039	mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved	82.4	mg/L	0.11	SW846 6020A	#
Calcium, Total	84.5	mg/L	0.11	SW846 6020A	#
Copper, Dissolved	0.0077	mg/L	0.0056	SW846 6020A	#
Copper, Total	0.0078	mg/L	0.0056	SW846 6020A	#
Iron, Dissolved	0.15	mg/L	0.056	SW846 6020A	#
Iron, Total	0.26	mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved	174	mg/L	11.0	SW846 6020A	#
Magnesium, Total	168	mg/L	0.11	SW846 6020A	#
Manganese, Dissolved	0.13	mg/L	0.0056	SW846 6020A	#
Manganese, Total	0.14	mg/L	0.0056	SW846 6020A	#
Nickel, Total	0.014	mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved	24.4	mg/L	0.11	SW846 6020A	#
Potassium, Total	24.7	mg/L	0.11	SW846 6020A	#
Sodium, Dissolved	442	mg/L	11.0	SW846 6020A	#
Sodium, Total	459	mg/L	11.0	SW846 6020A	#
Zinc, Dissolved	0.23	mg/L	0.0056	SW846 6020A	#
Zinc, Total	0.24	mg/L	0.0056	SW846 6020A	#
WET CHEMISTRY					
Alkalinity, Bicarbonate	76	mg/L	50	SM2320B-2011	#
Alkalinity, Total	76	mg/L	5	SM2320B-2011	#
Chemical Oxygen Demand (COD)	17	mg/L	15	EPA 410.4	#
Chloride	732	mg/L	10.0	EPA 300.0	#
Nitrate-N	31.1	mg/L	2.5	EPA 300.0	#
pH	8.25	pH_Units		S4500HB-11	#
Specific Conductance	3480	umhos/cm	50	SM2510B-2011	#
Sulfate	94.6	mg/L	5.0	EPA 300.0	#
Total Dissolved Solids	2260	mg/L	25	SM2540C-15	#
Total Organic Carbon (TOC)	5.1	mg/L	0.50	SM5310B-14	#
Turbidity	2.0	NTU	0.30	SM2130B-2011	#



Detected Results Summary

Client Sample ID	Field Blank	Collected	04/29/2025 11:30
Lab Sample ID	3412940004	Lab Receipt	04/29/2025 15:20

Compound	Result	Units	RDL	Method	Flag
LIBRARY SEARCH - VOLATILES					
No TIC's Detected	.			Lib Search VOC	#
VOLATILE ORGANICS					
Chloroform	10.7	ug/L	1.0	SW846 8260B	#



Detected Results Summary

Client Sample ID	Trip Blank	Collected	04/29/2025 15:20
Lab Sample ID	3412940006	Lab Receipt	04/29/2025 15:20

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



Results

Client Sample ID	CWMP016W	Collected	04/29/2025 09:04
Lab Sample ID	3412940001	Lab Receipt	04/29/2025 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Depth to Water Level	10.81		Feet		Field	1	04/29/2025 09:04	BGS	H
Dissolved Oxygen	9.63		mg/L	0.01	Field	1	04/29/2025 09:04	BGS	H
Elev Top MW Casing above MSL	311.97		Feet		Field	1	04/29/2025 09:04	BGS	H
Flow Rate	1.92		gal/min		Field	1	04/29/2025 09:04	BGS	H
Ground Water Elevation	301.16		ft/MSL		Field	1	04/29/2025 09:04	BGS	H
Oxidation-Reduction Potential	271		mV		Field	1	04/29/2025 09:04	BGS	H
pH, Field (SM4500B)	5.60		pH_Units		Field	1	04/29/2025 09:04	BGS	H
Sample Depth	71.00		Feet		Field	1	04/29/2025 09:04	BGS	H
Specific Conductance, Field	62		umhos/cm	1	Field	1	04/29/2025 09:04	BGS	H
Temperature	12.49		Deg. C		Field	1	04/29/2025 09:04	BGS	H
Total Well Depth	73.52		Feet		Field	1	04/29/2025 09:04	BGS	H
Turbidity, Field	1		NTU	1	Field	1	04/29/2025 09:04	BGS	H
Volume in Water Column	92.18		Gallons		Field	1	04/29/2025 09:04	BGS	H
Water Level After Purge	17.83		Feet		Field	1	04/29/2025 09:04	BGS	H
Well Volumes Purged	1.04		Vol		Field	1	04/29/2025 09:04	BGS	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	05/08/2025 10:29	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Barium, Dissolved	0.0087		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Barium, Total	0.0091		mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Calcium, Dissolved	5.0		mg/L	0.11	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Calcium, Total	5.2		mg/L	0.11	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Copper, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Copper, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Iron, Total	0.13		mg/L	0.056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Magnesium, Dissolved	1.2		mg/L	0.11	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Magnesium, Total	1.3		mg/L	0.11	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 09:04	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 09:39	AJN	F
Nickel, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Potassium, Dissolved	0.44		mg/L	0.11	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Potassium, Total	0.50		mg/L	0.11	SW846 6020A	1	05/08/2025 10:29	KXH	F1



Results

Client Sample ID	CWMP016W	Collected	04/29/2025 09:04
Lab Sample ID	3412940001	Lab Receipt	04/29/2025 15:20

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Sodium, Dissolved	3.1		mg/L	0.11	SW846 6020A	1	05/13/2025 11:05	KXH	D1
Sodium, Total	3.4		mg/L	0.11	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:29	KXH	F1
Zinc, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:22	KXH	D1
Zinc, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:29	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	05/03/2025 18:21	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L



Results

Client Sample ID	CWMP016W	Collected	04/29/2025 09:04
Lab Sample ID	3412940001	Lab Receipt	04/29/2025 15:20

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	05/03/2025 18:21	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:21	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:21	IXK	L

TICs by Library Search

Compound	CAS No	Result	Units	Qualifiers
Sulfur dioxide(DOT)	7446-09-5	3.7	ug/L	J,N

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	05/03/2025 18:21	
4-Bromofluorobenzene	460-00-4	98.6%	79 – 114	05/03/2025 18:21	
Dibromofluoromethane	1868-53-7	110%	78 – 116	05/03/2025 18:21	
Toluene-d8	2037-26-5	89.7%	76 – 127	05/03/2025 18:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	11		mg/L	5	SM2320B-2011	1	05/09/2025 18:00	JXK	A
Alkalinity, Total	11	1	mg/L	5	SM2320B-2011	1	05/09/2025 18:00	JXK	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 18:26	AYS	C
Chemical Oxygen Demand (COD)	ND	ND	mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	3.2		mg/L	2.0	EPA 300.0	2	04/30/2025 17:41	J1W	A
Fluoride	ND	ND	mg/L	0.20	EPA 300.0	2	04/30/2025 17:41	J1W	A
Nitrate-N	1.4		mg/L	1.0	EPA 300.0	2	04/30/2025 17:41	J1W	A
pH	8.66	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 15:11	AKH	K
Specific Conductance	61		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	10.4		mg/L	2.0	EPA 300.0	2	04/30/2025 17:41	J1W	A
Total Dissolved Solids	110		mg/L	25	SM2540C-15	1	04/30/2025 16:40	RAG	A



Results

Client Sample ID	CWMP016W	Collected	04/29/2025 09:04
Lab Sample ID	3412940001	Lab Receipt	04/29/2025 15:20

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Organic Carbon (TOC)	ND	ND	mg/L	0.50	SM5310B-14	1	04/30/2025 17:03	PAG	I
Turbidity	1.4		NTU	0.30	SM2130B-2011	1	04/30/2025 13:03	NPF	A



Results

Client Sample ID	CWMP018S	Collected	04/29/2025 09:38
Lab Sample ID	3412940002	Lab Receipt	04/29/2025 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	9.84		mg/L	0.01	Field	1	04/29/2025 09:38	SM	H
Oxidation-Reduction Potential	167		mV		Field	1	04/29/2025 09:38	SM	H
pH, Field (SM4500B)	8.44		pH_Units		Field	1	04/29/2025 09:38	SM	H
Specific Conductance, Field	2990		umhos/cm	1	Field	1	04/29/2025 09:38	SM	H
Temperature	14.54		Deg. C		Field	1	04/29/2025 09:38	SM	H
Turbidity, Field	2		NTU	1	Field	1	04/29/2025 09:38	SM	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	05/08/2025 10:58	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Barium, Dissolved	0.047		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Barium, Total	0.049		mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Calcium, Dissolved	77.4	3	mg/L	0.11	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Calcium, Total	79.6		mg/L	0.11	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Copper, Dissolved	0.0073		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Copper, Total	0.0075		mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Iron, Dissolved	ND	ND	mg/L	0.056	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Iron, Total	0.073		mg/L	0.056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Magnesium, Dissolved	145	3	mg/L	11.0	SW846 6020A	100	05/13/2025 11:07	KXH	D1
Magnesium, Total	135		mg/L	0.11	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Manganese, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Manganese, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 08:58	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 09:38	AJN	F
Nickel, Total	0.019		mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Potassium, Dissolved	22.9	3	mg/L	0.11	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Potassium, Total	23.4		mg/L	0.11	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:32	KXH	D1
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Sodium, Dissolved	351	3	mg/L	11.0	SW846 6020A	100	05/13/2025 11:07	KXH	D1
Sodium, Total	362		mg/L	11.0	SW846 6020A	100	05/08/2025 11:11	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 10:58	KXH	F1
Zinc, Dissolved	0.040		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:32	KXH	D1



Results

Client Sample ID	CWMP018S	Collected	04/29/2025 09:38
Lab Sample ID	3412940002	Lab Receipt	04/29/2025 15:20

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Zinc, Total	0.040		mg/L	0.0056	SW846 6020A	1	05/08/2025 10:58	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	05/03/2025 18:41	IXK	J
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J



Results

Client Sample ID	CWMP018S	Collected	04/29/2025 09:38
Lab Sample ID	3412940002	Lab Receipt	04/29/2025 15:20

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 18:41	IXK	J
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 18:41	IXK	J

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	05/03/2025 18:41	
4-Bromofluorobenzene	460-00-4	108%	79 – 114	05/03/2025 18:41	
Dibromofluoromethane	1868-53-7	101%	78 – 116	05/03/2025 18:41	
Toluene-d8	2037-26-5	87.4%	76 – 127	05/03/2025 18:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	67		mg/L	5	SM2320B-2011	1	05/12/2025 14:00	MYM	A
Alkalinity, Total	67	1	mg/L	50	SM2320B-2011	10	05/12/2025 14:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 18:41	AYS	C
Chemical Oxygen Demand (COD)	19		mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	620		mg/L	10.0	EPA 300.0	10	05/01/2025 15:02	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	04/30/2025 17:54	J1W	A
Nitrate-N	24.8		mg/L	2.5	EPA 300.0	5	04/30/2025 17:54	J1W	A
pH	8.30	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 15:31	AKH	I
Specific Conductance	332		umhos/cm	5	SM2510B-2011	1	05/13/2025 11:34	MAN	A
Sulfate	51.3		mg/L	5.0	EPA 300.0	5	04/30/2025 17:54	J1W	A
Total Dissolved Solids	1800		mg/L	25	SM2540C-15	1	04/30/2025 16:40	RAG	A
Total Organic Carbon (TOC)	17.2		mg/L	2.5	SM5310B-14	5	05/05/2025 17:08	PAG	L
Turbidity	1.3		NTU	0.30	SM2130B-2011	1	04/30/2025 13:03	NPF	A



Results

Client Sample ID	CWMP017S	Collected	04/29/2025 10:11
Lab Sample ID	3412940003	Lab Receipt	04/29/2025 15:20

FIELD PARAMETERS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dissolved Oxygen	10.31		mg/L	0.01	Field	1	04/29/2025 10:11	SM	H
Oxidation-Reduction Potential	173		mV		Field	1	04/29/2025 10:11	SM	H
pH, Field (SM4500B)	8.28		pH_Units		Field	1	04/29/2025 10:11	SM	H
Specific Conductance, Field	3714		umhos/cm	1	Field	1	04/29/2025 10:11	SM	H
Temperature	19.73		Deg. C		Field	1	04/29/2025 10:11	SM	H
Turbidity, Field	4		NTU	1	Field	1	04/29/2025 10:11	SM	H

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected	.				Lib Search VOC	1	05/03/2025 19:00	TMP	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	05/08/2025 11:00	KXH	F1
Arsenic, Dissolved	ND	ND	mg/L	0.0033	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Arsenic, Total	ND	ND	mg/L	0.0033	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Barium, Dissolved	0.037		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Barium, Total	0.039		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Beryllium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Cadmium, Dissolved	ND	ND	mg/L	0.0011	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Cadmium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Calcium, Dissolved	82.4		mg/L	0.11	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Calcium, Total	84.5		mg/L	0.11	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Chromium, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Chromium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Cobalt, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Copper, Dissolved	0.0077		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Copper, Total	0.0078		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Iron, Dissolved	0.15		mg/L	0.056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Iron, Total	0.26		mg/L	0.056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Lead, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Lead, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Magnesium, Dissolved	174		mg/L	11.0	SW846 6020A	100	05/13/2025 11:14	KXH	D1
Magnesium, Total	168		mg/L	0.11	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Manganese, Dissolved	0.13		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Manganese, Total	0.14		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Mercury, Dissolved	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 09:05	AJN	D
Mercury, Total	ND	ND	mg/L	0.00050	SW846 7470A	1	05/01/2025 09:34	AJN	F
Nickel, Total	0.014		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Potassium, Dissolved	24.4		mg/L	0.11	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Potassium, Total	24.7		mg/L	0.11	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Selenium, Dissolved	ND	ND	mg/L	0.0056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Selenium, Total	ND	ND	mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Silver, Dissolved	ND	ND	mg/L	0.0022	SW846 6020A	1	05/12/2025 11:38	KXH	D1



Results

Client Sample ID	CWMP017S	Collected	04/29/2025 10:11
Lab Sample ID	3412940003	Lab Receipt	04/29/2025 15:20

METALS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Silver, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Sodium, Dissolved	442		mg/L	11.0	SW846 6020A	100	05/13/2025 11:14	KXH	D1
Sodium, Total	459		mg/L	11.0	SW846 6020A	100	05/08/2025 11:13	KXH	F1
Thallium, Total	ND	ND	mg/L	0.0011	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Vanadium, Total	ND	ND	mg/L	0.0022	SW846 6020A	1	05/08/2025 11:00	KXH	F1
Zinc, Dissolved	0.23		mg/L	0.0056	SW846 6020A	1	05/12/2025 11:38	KXH	D1
Zinc, Total	0.24		mg/L	0.0056	SW846 6020A	1	05/08/2025 11:00	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	05/03/2025 19:00	IXK	L
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L



Results

Client Sample ID	CWMP017S	Collected	04/29/2025 10:11
Lab Sample ID	3412940003	Lab Receipt	04/29/2025 15:20

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Toluene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 19:00	IXK	L
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 19:00	IXK	L

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	05/03/2025 19:00	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	05/03/2025 19:00	
Dibromofluoromethane	1868-53-7	106%	78 – 116	05/03/2025 19:00	
Toluene-d8	2037-26-5	94.3%	76 – 127	05/03/2025 19:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Alkalinity, Bicarbonate	76		mg/L	50	SM2320B-2011	10	05/12/2025 14:00	MYM	A
Alkalinity, Total	76	1	mg/L	5	SM2320B-2011	1	05/12/2025 14:00	MYM	A
Ammonia-N, Low Level	ND	ND	mg/L	0.10	SM 4500-NH3G	1	05/07/2025 16:20	AYS	C
Chemical Oxygen Demand (COD)	17		mg/L	15	EPA 410.4	1	05/02/2025 12:30	KMS	C
Chloride	732		mg/L	10.0	EPA 300.0	10	05/01/2025 16:10	J1W	A
Fluoride	ND	ND	mg/L	0.50	EPA 300.0	5	04/30/2025 18:08	J1W	A
Nitrate-N	31.1		mg/L	2.5	EPA 300.0	5	04/30/2025 18:08	J1W	A
pH	8.25	2	pH_Units		S4500HB-11	1	05/05/2025 12:39	AYS	A
Phenolics	ND	ND	mg/L	0.004	SW846 9066	1	05/09/2025 15:29	AKH	K
Specific Conductance	3480		umhos/cm	50	SM2510B-2011	10	05/13/2025 11:34	MAN	A
Sulfate	94.6		mg/L	5.0	EPA 300.0	5	04/30/2025 18:08	J1W	A
Total Dissolved Solids	2260		mg/L	25	SM2540C-15	1	04/30/2025 16:40	RAG	A
Total Organic Carbon (TOC)	5.1		mg/L	0.50	SM5310B-14	1	04/30/2025 17:03	PAG	I
Turbidity	2.0		NTU	0.30	SM2130B-2011	1	04/30/2025 13:03	NPF	A



Results

Client Sample ID	Field Blank	Collected	04/29/2025 11:30
Lab Sample ID	3412940004	Lab Receipt	04/29/2025 15:20

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/03/2025 13:42	TMP	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	05/03/2025 13:42	IXK	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Chloroform	10.7		ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A



Results

Client Sample ID	Field Blank	Collected	04/29/2025 11:30
Lab Sample ID	3412940004	Lab Receipt	04/29/2025 15:20

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	05/03/2025 13:42	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 13:42	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 13:42	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.6%	62 - 133	05/03/2025 13:42	
4-Bromofluorobenzene	460-00-4	103%	79 - 114	05/03/2025 13:42	
Dibromofluoromethane	1868-53-7	101%	78 - 116	05/03/2025 13:42	
Toluene-d8	2037-26-5	88%	76 - 127	05/03/2025 13:42	



Results

Client Sample ID	Trip Blank	Collected	04/29/2025 15:20
Lab Sample ID	3412940006	Lab Receipt	04/29/2025 15:20

LIBRARY SEARCH - VOLATILES

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
No TIC's Detected					Lib Search VOC	1	05/03/2025 14:02	TMP	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	05/03/2025 14:02	IXK	A
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
2-Butanone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
2-Hexanone	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
3-Chloro-1-propene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Acetone	ND	ND	ug/L	10.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Acrylonitrile	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Benzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Bromochloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Bromodichloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Bromoform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Bromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Carbon Disulfide	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Chlorobenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Chloroethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Chloroform	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Chloromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Dibromomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Ethylbenzene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Iodomethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Methylene Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Styrene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Tetrachloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A



Results

Client Sample ID	Trip Blank	Collected	04/29/2025 15:20
Lab Sample ID	3412940006	Lab Receipt	04/29/2025 15:20

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	05/03/2025 14:02	IXK	A
Total Xylenes	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
trans-1,4-Dichloro-2-butene	ND	ND	ug/L	3.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Trichloroethene	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Vinyl Acetate	ND	ND	ug/L	5.0	SW846 8260B	1	05/03/2025 14:02	IXK	A
Vinyl Chloride	ND	ND	ug/L	1.0	SW846 8260B	1	05/03/2025 14:02	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.4%	62 – 133	05/03/2025 14:02	
4-Bromofluorobenzene	460-00-4	109%	79 – 114	05/03/2025 14:02	
Dibromofluoromethane	1868-53-7	101%	78 – 116	05/03/2025 14:02	
Toluene-d8	2037-26-5	88.3%	76 – 127	05/03/2025 14:02	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3412940001	CWMP016W	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	
3412940002	CWMP018S	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 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	
3412940003	CWMP017S	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	
3412940004	Field Blank	Lib Search VOC	N/A	
		SW846 8260B	N/A	
3412940006	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
3412940001	CWMP016W	N/A	N/A	N/A		Field	1433653
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 7470A	1427654	05/01/2025 06:28	AJN	SW846 7470A	1427858
		SW846 7470A	1427671	05/01/2025 06:28	AJN	SW846 7470A	1427859
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427546
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427555
		N/A	N/A	N/A		SM2320B-2011	1431059
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427597
		N/A	N/A	N/A		SM5310B-14	1427682
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3412940002	CWMP018S	N/A	N/A	N/A		Field	
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 7470A	1427654	05/01/2025 06:28	AJN	SW846 7470A	1427858
		SW846 7470A	1427671	05/01/2025 06:28	AJN	SW846 7470A	1427859
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427546
		N/A	N/A	N/A		EPA 300.0	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427592
		N/A	N/A	N/A		SM2130B-2011	1427555
		N/A	N/A	N/A		SM2320B-2011	1432530
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427597
		N/A	N/A	N/A		SM5310B-14	1430137
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3412940003	CWMP017S	N/A	N/A	N/A		Field	
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1432856
		SW846 3015A	1427791	05/02/2025 09:24	ANN	SW846 6020A	1430759
		SW846 3015A	1427790	05/01/2025 09:42	ANN	SW846 6020A	1430041
		SW846 7470A	1427671	05/01/2025 06:28	AJN	SW846 7470A	1427859
		SW846 7470A	1427654	05/01/2025 06:28	AJN	SW846 7470A	1427858
		N/A	N/A	N/A		Lib Search VOC	1428530
		N/A	N/A	N/A		SW846 8260B	1428430
		N/A	N/A	N/A		EPA 300.0	1427546
		N/A	N/A	N/A		EPA 300.0	1427801
		N/A	N/A	N/A		EPA 410.4	1428064
		N/A	N/A	N/A		S4500HB-11	1428828
		N/A	N/A	N/A		SM 4500-NH3G	1427599
		N/A	N/A	N/A		SM2130B-2011	1427555
		N/A	N/A	N/A		SM2320B-2011	1432530
		N/A	N/A	N/A		SM2510B-2011	1433530
		N/A	N/A	N/A		SM2540C-15	1427597
		N/A	N/A	N/A		SM5310B-14	1427682
		SW846 9066	1431103	05/09/2025 08:39	AKH	SW846 9066	1431107
3412940004	Field Blank	N/A	N/A	N/A		Lib Search VOC	1428530
		N/A	N/A	N/A		SW846 8260B	1428430
3412940006	Trip Blank	N/A	N/A	N/A		Lib Search VOC	1428530
		N/A	N/A	N/A		SW846 8260B	1428430



Middletown Sample Condition Form

Client Lancaster Workorder 3412940
Temp °C 5 Therm ID 649 Ice? Y N N/A Initials & Date DAG 4/29/25
Fedex UPS Client ALS Other Tracking # _____

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

¹ If No, provide comment

Rad Screen (uCi) _____

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

Review Comments:

